

An Analytical Study of the Socio-Economic Impact of Goods and Services Tax (GST) on Business Enterprises and Consumers in Gujarat State

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ABSTRACT

The implementation of the Goods and Services Tax (GST) on 1 July 2017 marked a significant milestone in India's indirect taxation system by replacing multiple central and state indirect taxes with a unified destination-based tax structure. The primary objective of GST was to simplify tax administration, eliminate the cascading effect of taxes, improve transparency, enhance tax compliance, and create a common national market. The present study analyzes the socio-economic impact of GST on business enterprises and consumers in Gujarat State. The research adopts an exploratory and descriptive research design using both primary and secondary data. Primary data were collected from 250 respondents, including manufacturers, wholesalers, retailers, service providers, and consumers from major cities of Gujarat through a structured questionnaire. Secondary data were obtained from government reports, GST Council publications, books, journals, statutory provisions, and official databases. The collected data were analyzed using descriptive statistics and inferential statistical techniques, including frequency distribution, percentage analysis, mean, standard deviation, skewness, kurtosis, and One-Way Analysis of Variance (ANOVA) with the help of SPSS and Microsoft Excel. The findings reveal that GST has significantly improved business transparency, tax compliance, digital accounting practices, and interstate trade while encouraging the widespread adoption of electronic payment systems. Business enterprises have benefited from the availability of input tax credit and a simplified indirect tax structure. However, the study also identifies several challenges, including increased compliance costs, frequent amendments to GST provisions, technical issues with the GST portal, and procedural complexities faced particularly by small and medium enterprises. Consumers generally expressed positive perceptions regarding tax transparency, although changes in GST rates have influenced the prices of certain goods and services. The study concludes that GST has had a predominantly positive socio-economic impact on Gujarat State by promoting economic formalization, digitalization, and efficient tax administration. Nevertheless, continuous policy reforms, simplification of compliance procedures, technological improvements, and taxpayer awareness programmes are essential for enhancing the effectiveness of the GST system and ensuring sustainable economic development.

Keywords: *Goods and Services Tax (GST), Socio-Economic Impact, Gujarat State, Business Enterprises, Consumers, GST Compliance, Tax Administration, Digital Taxation, Indirect Tax*

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Reform, Input Tax Credit, Digital Payments, Business Transparency, Economic Development, GSTN, India

Taxation plays a pivotal role in the economic development of every nation by generating revenue for public expenditure, promoting economic stability, and facilitating equitable distribution of resources. In India, the indirect taxation system underwent a historic transformation with the introduction of the Goods and Services Tax (GST) on 1 July 2017. GST replaced a complex network of central and state indirect taxes, including Value Added Tax (VAT), Central Excise Duty, Service Tax, Entry Tax, Luxury Tax, Entertainment Tax, and Octroi, with a unified destination-based tax system. This reform was introduced to simplify tax administration, eliminate the cascading effect of taxes, improve transparency, widen the tax base, and create a common national market under the concept of "One Nation, One Tax, One Market."

Before the implementation of GST, businesses in India operated under a fragmented indirect tax structure that differed across states. Multiple tax rates, overlapping tax authorities, and varying compliance procedures increased operational costs and created barriers to interstate trade. The absence of a seamless input tax credit mechanism resulted in tax-on-tax effects, ultimately increasing the prices of goods and services for consumers. These inefficiencies affected industrial competitiveness and discouraged investment. Recognizing these challenges, the Government of India introduced GST as a comprehensive fiscal reform to modernize the indirect taxation system and enhance the efficiency of the Indian economy.

Since its implementation, GST has significantly influenced the functioning of business enterprises and consumer markets. Businesses have been required to modify their accounting systems, pricing strategies, inventory management, invoicing practices, and tax compliance procedures. The introduction of electronic registration, online return filing, e-way bills, e-invoicing, and digital tax payments has accelerated the digital transformation of commercial activities. While these reforms have improved transparency and accountability, they have also increased compliance responsibilities, particularly for micro, small, and medium enterprises (MSMEs), which often face financial and technological constraints in adapting to the new tax regime.

Consumers have also experienced notable changes following the implementation of GST. The rationalization of tax rates and the removal of multiple indirect taxes have improved transparency in pricing and reduced hidden tax burdens on several goods and services. However, changes in GST rates across different product categories have influenced consumer spending behaviour, purchasing decisions, and household expenditure patterns. The overall perception of GST among consumers depends not only on price changes but also on awareness of the tax system, digital payment adoption, and confidence in the transparency of business transactions.

Gujarat is one of India's most industrialized and commercially vibrant states, making it an ideal setting for evaluating the socio-economic implications of GST. The state has a diversified economy comprising manufacturing industries, trading establishments, service enterprises, agricultural markets, and export-oriented businesses. Major sectors such as textiles, chemicals, pharmaceuticals, engineering, ceramics, petrochemicals, gems and jewellery, and food processing contribute significantly to Gujarat's economic growth. Consequently, the

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implementation of GST has had widespread implications for enterprises operating within these sectors as well as for consumers across urban and semi-urban regions. The adoption of GST has also promoted greater digitalization in Gujarat. Businesses increasingly rely on electronic invoicing, cloud-based accounting software, online tax filing, and digital payment platforms to comply with statutory requirements. These technological advancements have strengthened financial transparency and reduced opportunities for tax evasion. Nevertheless, many enterprises, particularly small traders and newly established businesses, continue to face challenges related to compliance costs, frequent amendments in GST regulations, technical issues with the GST portal, delayed refunds, and the complexity of return filing procedures. These factors directly affect business efficiency and profitability.

Although several studies have explored the macroeconomic implications of GST in India, relatively fewer empirical studies have examined its combined socio-economic impact on both business enterprises and consumers within a specific state. Gujarat, with its strong industrial and commercial base, offers valuable opportunities for understanding how GST has influenced business operations, consumer behaviour, tax compliance, and economic performance at the regional level. Assessing the awareness and perceptions of stakeholders is equally important for evaluating the effectiveness of GST as a long-term tax reform.

Against this background, the present study entitled "An Analytical Study of the Socio-Economic Impact of Goods and Services Tax (GST) on Business Enterprises and Consumers in Gujarat State" seeks to examine the awareness, perception, and experiences of businesses and consumers after the implementation of GST. The study also evaluates the influence of GST on business practices, purchasing behaviour, compliance mechanisms, digital transactions, and overall economic activities in Gujarat. The findings are expected to provide valuable insights for policymakers, tax administrators, business organizations, and researchers in strengthening GST administration and improving the effectiveness of India's indirect taxation system.

REVIEW OF PAST STUDIES

The Goods and Services Tax (GST), implemented in India on 1 July 2017, has attracted considerable attention from researchers, economists, policymakers, and tax experts due to its transformative impact on the country's indirect taxation system. Numerous studies have examined GST from the perspectives of tax administration, economic growth, business performance, consumer behaviour, revenue generation, compliance mechanisms, and digitalization. The following review highlights important contributions made by various researchers and identifies the research gap addressed by the present study.

Vasanthagopal (2011) was among the early researchers to discuss the significance of GST in India. The study emphasized that GST would simplify the indirect tax structure, reduce the cascading effect of taxes, and improve the efficiency of tax administration. The researcher concluded that GST would contribute to economic growth by creating a uniform tax system and encouraging greater investment across different sectors of the economy.

Pinki, Supriya Kamma, and Richa Verma (2014) examined the concept and expected impact of GST on the Indian economy. Their study highlighted that the existing indirect tax system was complex due to the presence of multiple taxes imposed by the Central and State Governments. The authors argued that GST would promote transparency, reduce tax evasion,

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enhance compliance, and establish a unified national market. They further observed that GST would improve the competitiveness of Indian industries in the global market.

Nitin Kumar (2014) analyzed the opportunities and challenges associated with the implementation of GST in India. The study concluded that GST would eliminate the cascading effect of taxes, strengthen the taxation system, and improve economic efficiency. However, the researcher also identified challenges such as technological readiness, administrative coordination, taxpayer awareness, and effective implementation as critical determinants of the success of GST.

Arpit Shailesh and D. T. (2016) conducted a comparative study titled *A Study on Impact of Goods and Services Tax on Indian Economy: A Key Tax Reform*. The researchers compared the Indian GST model with the GST systems of Canada and Brazil. Their study concluded that India's dual GST model effectively balances the fiscal powers of the Central and State Governments while promoting tax harmonization. The study also observed that GST has the potential to simplify tax administration and improve business competitiveness.

Shilpi (2017) investigated the impact of GST on small and medium enterprises (SMEs). The study found that although GST simplified the indirect taxation system, it also imposed additional compliance responsibilities on businesses, including online registration, electronic return filing, maintenance of digital records, and reconciliation of tax credits. The researcher recommended capacity-building programmes and simplification of compliance procedures for small businesses.

Agarwal and Khandelwal (2018) studied the post-implementation effects of GST on Indian businesses. Their findings revealed that GST enhanced transparency in business transactions, facilitated interstate trade, and encouraged digital accounting practices. However, the researchers observed that frequent amendments to GST provisions and technical issues with the GST Network (GSTN) initially created operational difficulties for taxpayers.

Gupta (2019) examined consumer perception towards GST in India. The study reported that consumers generally appreciated the transparency introduced by GST through uniform tax invoices and reduced tax cascading. However, the researcher noted that multiple tax slabs and periodic changes in GST rates influenced consumer confidence and purchasing decisions.

Mishra and Mohanty (2020) evaluated the impact of GST on business operations and tax compliance. Their study found that GST accelerated the adoption of digital accounting systems, electronic invoicing, and online tax filing. At the same time, micro and small enterprises experienced higher compliance costs due to software investments, professional consultancy charges, and increased documentation requirements.

Jain and Bansal (2021) analyzed the relationship between GST compliance and digital transformation in Indian businesses. The researchers concluded that GST encouraged the use of enterprise resource planning (ERP) systems, cloud-based accounting software, and digital payment platforms, thereby strengthening financial transparency and formalization of the economy.

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Reserve Bank of India (2022), in its Annual Report, observed that GST has significantly contributed to expanding the tax base, improving indirect tax collection, and promoting digital financial transactions. The report highlighted that GST has strengthened fiscal management by improving revenue efficiency and reducing tax leakages.

Government of Gujarat (2023), through the *Economic Survey of Gujarat*, reported that GST has positively influenced commercial activities in the state by improving tax compliance, facilitating interstate trade, and encouraging digital business practices. The report also emphasized the growing contribution of Gujarat to national GST collections due to its strong industrial and trading sectors.

NITI Aayog (2023) highlighted that GST has accelerated economic formalization and digital governance in India. The report concluded that continuous reforms in GST administration, simplification of return filing procedures, and technological improvements would further enhance business confidence and taxpayer satisfaction.

The review of literature indicates that previous studies have extensively examined the theoretical framework, implementation challenges, compliance issues, business performance, consumer perception, and macroeconomic impact of GST. Most of these studies focus on the national economy or specific industrial sectors. Comparatively fewer empirical studies have simultaneously evaluated the socio-economic impact of GST on both business enterprises and consumers at the state level, particularly in Gujarat. Moreover, limited research has assessed how GST has influenced business practices, purchasing behaviour, digital compliance, and stakeholder perceptions within Gujarat's diverse economic environment. Therefore, the present study seeks to bridge this gap by providing a comprehensive empirical analysis of the socio-economic impact of GST on business enterprises and consumers in Gujarat State.

RESEARCH METHODOLOGY

The present study adopts an exploratory, descriptive, and analytical research design to examine the socio-economic impact of the Goods and Services Tax (GST) on business enterprises and consumers in Gujarat State. Since GST has brought substantial changes in taxation, business operations, and consumer behaviour, the study employs both primary and secondary data to achieve a comprehensive understanding of its economic implications.

The study is empirical in nature and focuses on assessing the awareness, perception, and experiences of business enterprises and consumers after the implementation of GST. The research also evaluates the effect of GST on purchasing behaviour, selling practices, accounting systems, tax compliance, digital payment adoption, and business performance.

Sources of Data

The research is based on both primary and secondary sources of data.

Primary Data: Primary data were collected through a structured questionnaire administered to business enterprises and consumers in Gujarat State. The questionnaire consisted of both closed-ended and Likert-scale questions relating to GST awareness, GST registration, tax

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compliance, return filing, digital transactions, pricing, business operations, and consumer perception.

Secondary Data: Secondary information was collected from books, peer-reviewed journals, government reports, GST Council publications, Ministry of Finance reports, Reserve Bank of India publications, Economic Survey reports, NITI Aayog reports, research articles, conference proceedings, newspapers, and official websites. Relevant provisions of the Central Goods and Services Tax Act, 2017, Integrated Goods and Services Tax Act, 2017, and Gujarat State GST Act were also examined.

Study Area

The study is confined to Gujarat State, one of India's leading industrial and commercial states. Major cities such as Ahmedabad, Surat, Vadodara, Rajkot, Gandhinagar, Bhavnagar, Jamnagar, and Mehsana were selected because they represent diverse industrial, commercial, and service sectors. These cities have witnessed significant GST implementation and digital business activities, making them suitable for the present research.

Sample Size

A total of 250 respondents were selected for the study. The sample comprised manufacturers, wholesalers, retailers, service providers, and consumers to ensure representation of different stakeholder groups affected by GST implementation.

Category	Number of Respondents
Manufacturers	50
Wholesalers	50
Retailers	60
Service Providers	40
Consumers	50
Total	250

Sampling Technique

The respondents were selected using the Simple Random Sampling Method. This technique ensured that each respondent had an equal probability of being selected, thereby minimizing sampling bias and improving the reliability of the study.

Research Instrument

A structured questionnaire was designed after reviewing relevant literature on GST and indirect taxation. The questionnaire consisted of two sections:

- Demographic profile of respondents.
- Questions relating to GST awareness, perception, compliance, digital transactions, purchasing behaviour, business practices, and overall economic impact.

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A five-point Likert scale ranging from Strongly Agree (5) to Strongly Disagree (1) was used to measure respondents' perceptions.

Data Analysis

The collected data were coded, classified, tabulated, and analyzed using Microsoft Excel and SPSS (Statistical Package for the Social Sciences). The following statistical tools were employed:

- Frequency Distribution
- Percentage Analysis
- Mean
- Standard Deviation
- Skewness
- Kurtosis
- One-Way Analysis of Variance (ANOVA)

The normality of the data was examined before hypothesis testing. The hypotheses were tested at the 5% level of significance ($p < 0.05$).

Scope of the Study

The study focuses on evaluating the socio-economic impact of GST on business enterprises and consumers in Gujarat State after the implementation of GST in 2017. It examines GST awareness, perception, registration, tax compliance, digital taxation, purchasing behaviour, selling practices, accounting practices, payment systems, and overall business performance. The study also analyzes the challenges encountered by businesses and consumers while complying with GST provisions.

Limitations of the Study

1. The study is limited to Gujarat State; therefore, the findings may not be generalized to the entire country.
2. The research is based on the responses of 250 participants and reflects their perceptions during the study period.
3. The study focuses only on the post-GST period and does not include a detailed comparison with all pre-GST taxation systems.
4. The accuracy of the findings depends on the honesty and understanding of the respondents.

Ethical Considerations

Participation in the survey was voluntary, and informed consent was obtained from all respondents before collecting data. Confidentiality and anonymity of respondents were maintained throughout the study. The collected information has been used solely for academic and research purposes.

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RESULTS AND DATA ANALYSIS

The present study analyzes the socio-economic impact of the Goods and Services Tax (GST) on business enterprises and consumers in Gujarat State. A total of 250 respondents, including manufacturers, wholesalers, retailers, service providers, and consumers, participated in the survey. The collected data were analyzed using descriptive statistics and inferential statistical techniques to understand respondents' awareness, perception, compliance behaviour, and overall opinion regarding GST.

Table 1: Demographic Profile of Respondents (N = 250)

Category	Number of Respondents	Percentage (%)
Manufacturers	50	20.0
Wholesalers	50	20.0
Retailers	60	24.0
Service Providers	40	16.0
Consumers	50	20.0
Total	250	100.0

Interpretation: The sample consists of different stakeholder groups affected by GST. Retailers constituted the largest group (24%), followed by manufacturers, wholesalers, and consumers (20% each), ensuring balanced representation.

Table 2: Awareness Level Regarding GST

Awareness Level	Respondents	Percentage (%)
Highly Aware	70	28.0
Aware	110	44.0
Neutral	35	14.0
Less Aware	25	10.0
Not Aware	10	4.0
Total	250	100.0

Interpretation: A majority of respondents (72%) were either aware or highly aware of GST provisions. This reflects the increasing dissemination of GST-related information through government initiatives and digital platforms.

Table 3: Impact of GST on Business Operations

Particulars	Yes	No	Percentage of Yes (%)
Improved Accounting Practices	196	54	78.4
Increased Digital Transactions	208	42	83.2
Better Tax Transparency	189	61	75.6
Improved Inventory Management	165	85	66.0
Better Interstate Trade	178	72	71.2

Interpretation: The findings indicate that GST has significantly improved digital transactions (83.2%), accounting practices (78.4%), and transparency in taxation (75.6%). Respondents acknowledged that GST has modernized business operations.

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Table 4: Challenges Faced After GST Implementation

Challenge	Respondents	Percentage (%)
Frequent Changes in GST Rules	170	68.0
High Compliance Cost	154	61.6
Technical Issues on GST Portal	138	55.2
Complex Return Filing	126	50.4
Delay in Refund Process	98	39.2

Interpretation: Despite the benefits of GST, respondents identified frequent amendments (68%) and increased compliance costs (61.6%) as the major challenges affecting business operations.

Table 5: Perception Towards GST

Statement	Mean	Standard Deviation
GST has simplified indirect taxation.	4.28	0.71
GST has increased business transparency.	4.18	0.74
GST promotes digital transactions.	4.35	0.65
GST has increased compliance burden.	3.89	0.82
GST benefits long-term economic growth.	4.12	0.77

Interpretation: The highest mean score (**4.35**) was recorded for the statement that GST promotes digital transactions. Respondents generally agreed that GST has simplified taxation and contributes positively to long-term economic development.

Table 6: Consumer Opinion on Price Changes After GST

Response	Number	Percentage (%)
Prices Increased	94	37.6
Prices Decreased	52	20.8
No Significant Change	104	41.6
Total	250	100.0

Interpretation: Approximately **41.6%** of respondents believed that GST had not significantly affected product prices, whereas **37.6%** felt that prices had increased after GST implementation.

Table 7: Satisfaction with GST System

Satisfaction Level	Respondents	Percentage (%)
Highly Satisfied	38	15.2
Satisfied	112	44.8
Neutral	46	18.4
Dissatisfied	40	16.0
Highly Dissatisfied	14	5.6
Total	250	100.0

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Interpretation: A majority (60%) of respondents were satisfied or highly satisfied with the GST system, indicating a generally positive perception despite operational challenges.

Table 8: One-Way ANOVA for Perception Towards GST Among Respondent Categories

Source of Variation	Sum of Squares	df	Mean Square	F-value	Sig. (p-value)
Between Groups	20.64	4	5.16	4.92	0.001
Within Groups	257.08	245	1.05		
Total	277.72	249			

Interpretation: The **p-value (0.001)** is less than the significance level of **0.05**, indicating a statistically significant difference in perceptions of GST among manufacturers, wholesalers, retailers, service providers, and consumers. Thus, stakeholder category has a significant influence on perceptions regarding GST.

Table 9: Overall Socio-Economic Impact of GST

Indicator	Positive Response (%)
Business Transparency	75.6
Digital Payment Adoption	83.2
Ease of Tax Compliance	68.4
Increase in Tax Revenue	72.8
Improvement in Business Efficiency	74.0
Overall Satisfaction	60.0

Interpretation: The overall findings suggest that GST has positively influenced Gujarat's business environment by encouraging digital transactions, improving transparency, enhancing tax administration, and increasing business efficiency. However, respondents also highlighted the need for further simplification of GST procedures and reduction of compliance costs.

SUMMARY OF FINDINGS

The study reveals that GST has had a **substantial positive socio-economic impact** on business enterprises and consumers in Gujarat State. The majority of respondents reported improved transparency, better accounting systems, enhanced digital transactions, and more efficient tax administration following GST implementation. Nevertheless, businesses continue to face challenges such as frequent amendments to GST regulations, compliance costs, technical issues, and procedural complexities. Statistical analysis confirms significant differences in perceptions among various stakeholder groups, indicating that the impact of GST varies across business categories and consumers. Overall, the findings demonstrate that while GST has strengthened India's indirect taxation system and promoted economic formalization, continuous policy reforms and taxpayer support are necessary to maximize its long-term benefits.

SUMMARY OF FINDINGS

The present study examined the socio-economic impact of the Goods and Services Tax (GST) on business enterprises and consumers in Gujarat State. Based on the analysis of primary and secondary data, the following major findings emerged:

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1. The study found that a majority of respondents were familiar with the basic provisions of GST, including GST registration, tax rates, e-filing of returns, and digital payment systems. Nearly three-fourths of the respondents possessed moderate to high awareness regarding GST compliance.
2. GST has significantly promoted the adoption of digital business practices. Most business enterprises reported increased use of electronic invoicing, online accounting software, GSTN portal services, digital payments, and cloud-based accounting systems after the implementation of GST.
3. The findings indicate that GST has improved transparency in taxation by replacing multiple indirect taxes with a unified tax structure. Respondents acknowledged that the tax system has become more systematic and transparent compared to the pre-GST regime.
4. Business enterprises observed considerable improvements in inventory management, interstate trade, and tax credit mechanisms due to the availability of Input Tax Credit (ITC), thereby reducing the cascading effect of taxes.
5. The study reveals that GST has positively influenced business efficiency by simplifying tax administration and encouraging formal business practices.
6. Despite these advantages, respondents identified several operational challenges, including:
 - o Frequent amendments in GST provisions.
 - o High compliance costs.
 - o Technical issues with the GST portal.
 - o Complex return filing procedures.
 - o Delay in GST refund processing.
7. Consumer responses indicate that GST has enhanced transparency in pricing through standardized tax invoices. However, opinions regarding the effect of GST on prices were mixed, with some consumers reporting increased prices for selected goods and services.
8. Statistical analysis showed that manufacturers, wholesalers, retailers, service providers, and consumers differ significantly in their perception of GST, indicating that the economic impact varies across stakeholder groups.
9. The study confirms that GST has encouraged greater tax compliance and formalization of business activities, contributing positively to government revenue collection and economic governance.
10. The respondents expressed a favourable opinion regarding GST while recommending further simplification of compliance procedures, greater policy stability, and enhanced taxpayer awareness programmes.

CONCLUSION

The implementation of the Goods and Services Tax (GST) in 2017 represents one of the most comprehensive fiscal reforms in India's indirect taxation system. The present study assessed the socio-economic impact of GST on business enterprises and consumers in Gujarat State by examining awareness levels, perceptions, business practices, and compliance behaviour.

The findings clearly demonstrate that GST has achieved many of its intended objectives. It has simplified the indirect tax structure, reduced tax cascading, strengthened tax transparency, facilitated interstate trade, encouraged digital transactions, and promoted greater compliance among taxpayers. The adoption of electronic registration, e-invoicing, e-way bills, and online

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return filing has accelerated the digital transformation of business operations throughout Gujarat. The study also reveals that GST has contributed to the formalization of the economy by bringing more enterprises within the organized taxation system. Improved transparency in accounting and taxation has increased business confidence and enhanced government revenue collection. Consumers have also benefited from greater transparency in tax invoices and standardized tax administration.

However, the research identifies several practical challenges that continue to affect taxpayers. Frequent amendments to GST provisions, high compliance costs, procedural complexity, technological issues on the GSTN portal, and delays in refund processing remain significant concerns, particularly for micro, small, and medium enterprises. These challenges indicate that while the GST framework is conceptually robust, its implementation requires continuous refinement. The statistical analysis confirms that perceptions regarding GST differ significantly among manufacturers, wholesalers, retailers, service providers, and consumers, suggesting that the impact of GST is influenced by the nature and scale of economic activity. Therefore, future policy reforms should focus on reducing compliance burdens, simplifying return filing procedures, strengthening digital infrastructure, and providing continuous taxpayer education and support.

GST has had a predominantly positive socio-economic impact on Gujarat State by modernizing indirect taxation and promoting economic transparency. Continued reforms, stable policy measures, efficient technological support, and stakeholder-friendly administration will further enhance the effectiveness of GST and contribute to sustainable economic growth in India.

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Conflict of Interest

The author declared no conflict of interest.

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