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## **Evaluating Quantitative Effects of Exchange Rate Variability on Small and Medium Enterprise Import-Export Operations.**

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**ABSTRACT-**The present research endeavors to examine the numerical implications of fluctuations in exchange rates on the fiscal outcomes of SMEs involved in import-export activities.. Employing a mixed-method approach, data were collected from 100 SMEs using financial records, surveys, and in-depth interviews. The quantitative analysis focused on financial records from the past five years, revealing significant negative correlations: exchange rate variability (-0.45,  $p=0.01$ ) with revenue (-0.40,  $p=0.02$ ), profit margins (-0.48,  $p=0.01$ ), and export volumes (-0.35,  $p=0.05$ ). Surveys captured SMEs' risk perceptions and strategies, while interviews provided qualitative insights into challenges and management practices. Results indicate that increased exchange rate variability adversely affects SME financial performance, with significant reductions in revenue, profit margins, and export volumes. The study highlights the need for enhanced risk management strategies and tailored support from policymakers and financial institutions to improve SME resilience in the global market. Ethical considerations, including informed consent and data confidentiality, were strictly maintained.

**Keywords-** *Financial, Quantitative, Exchange, Risk and Variability*

### **I. Introduction**

A thorough analysis of how changes in currency values affect the financial stability and strategic choices made by SMEs involved in international commerce is necessary to assess the quantitative effects of exchange rate variability on SME import-export activities. Exchange rate variability, which is defined as the volatility in the value of one currency in relation to another, can have a substantial effect on SMEs because of their inherent fragility in comparison to larger, more resource-rich firms. Exchange rate volatility can provide significant operational and financial issues for SMEs, who are frequently limited by low financial reserves and inadequate risk management frameworks. The current study uses a quantitative method to investigate these consequences, concentrating on the ways in which changes in exchange rates affect important financial metrics like export volumes, profit margins, and revenue. Exchange rate fluctuations can impact small and medium-sized enterprises (SMEs) in a number of ways, ranging from changing the cost structures

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of imported components and raw materials to impacting pricing policies and overall competitive positioning in international markets. For example, a decline in the value of the home currency might raise the cost of imports, reducing corporate margins and possibly raising consumer prices. On the other hand, if the home currency gains strength, exports may become less competitive due to increased costs for goods and services for overseas consumers [1]–[4]. A multifaceted methodology is used in the research. Exchange rate variability and these performance measures are measured by analyzing financial data from SMEs, such as annual revenue figures, profit margins, and export volumes. To find patterns and relationships with variations in exchange rates, this entails gathering and examining past financial records. The study also includes survey data from managers and owners of SMEs to learn more about their risk management approaches and views of exchange rate risks. Surveys are intended to gather quantitative data on the usage of hedging tools, modifications to pricing plans, and operational changes brought about by currency volatility. In-depth interviews with a subset of SME representatives provide qualitative insights that complement the quantitative data. These interviews explore the practical challenges faced by SMEs in managing exchange rate risks and the effectiveness of various risk mitigation strategies[4]–[8].

## The Importance of Exchange Rate Stability



*Figure 1 Importance of Exchange Rate Stability*

With the help of qualitative feedback and quantitative analysis, the research hopes to provide a thorough knowledge of how SMEs adjust to exchange rate variability. The quantitative study looks at the relationship between exchange rate variability and financial performance metrics using statistical approaches including regression analysis and correlation analysis. Key performance metrics and exchange rate changes have a relationship, but correlation research can show how



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strong and in which direction it is. By accounting for additional variables that can have an impact on SME performance, regression analysis clarifies the impact of exchange rate variability on these indicators even further [9]–[13].

Determining whether the observed associations are statistically significant and economically useful is one of the main goals of this research. For example, a strong inverse relationship between revenue and exchange rate variability would imply that higher currency swings are linked to lower revenue for SMEs. Comparably, a notable influence on profit margins would suggest that fluctuations in exchange rates have an effect on SMEs' profitability, which could result in financial instability. Additionally, the study intends to assess the efficacy of various risk management techniques used by SMEs, including pricing modifications, market diversification, and financial hedging. The results of this study should offer insightful information about how much exchange rate volatility affects the operations of small and medium-sized businesses. By emphasizing the numerical impacts of exchange rate changes on[14]–[19].The goal of the research is to provide useful suggestions for improving risk management procedures, assisting SMEs in more effectively navigating the uncertainties of the global marketplace. The study's findings have consequences for financial institutions and policymakers. While developing support systems, like tailored financial products and advisory services, to help SMEs reduce currency-related risks, it might be helpful to have an understanding of the difficulties that SMEs encounter in managing exchange rate risks. By providing evidence-based insights that might guide policy decisions and strengthen SMEs' resilience in the global economy, the research adds to the larger conversation on exchange rate risk management [20]–[24].Using a sound approach to examine financial data, survey responses, and qualitative insights, this study offers a thorough analysis of the quantitative consequences of exchange rate variability on SME import-export activities. The study intends to provide a thorough understanding of how SMEs can adapt to and manage exchange rate risks, ultimately contributing to their financial stability and competitive position in the global market, by examining the impact of currency fluctuations on important financial metrics and risk management strategies [25].

## II. Literature Review

Hakim 2024 Malaysia's exports suffer from exchange rate fluctuation, which lowers both volume and revenue. Maintaining stable currency rates is essential to boosting export competitiveness and drawing in foreign capital. It is advisable to implement exchange rate controls and effective hedging

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strategies to lessen the negative impacts of volatility. Malaysia's ability to withstand external shocks depends on macroeconomic stability and structural changes. Maintaining Malaysia's export-led economy and promoting economic development depend heavily on controlling exchange rate volatility [26].

Lotfalipour 2024 The purpose of this study is to determine whether trade balance is directly and significantly impacted by exchange rate volatility. Thus, the goal of this research is to calculate the impact of real effective exchange rate volatility on Iran's trade balance from 1993 to 2011. by utilizing the balanced PANEL data model, the GARCH (1, 1) technique, and unit root tests. The real effective exchange rate has no discernible impact on the trade balance, according to the results. So, it is important to stress that real effective exchange rate volatility cannot be used solely in managing the trade balance of Iran with main trading partners. We find that trade balance is affected by import, rather than export. Thus, in order to boost the trade balance the government should implement the policy that focuses on the production of imported substituting goods[27].

Almarri 2021 The method of data collection was questionnaire survey. There were nine risk subcategories on the questionnaire. A dependence risk matrix was used to measure the impact of risk cost on risk allocation. The survey's results were visualized using heat map techniques. Findings: The results indicate which risks, whether endogenous or exogenous, should go to the public, private, or shared sectors. The research findings serve as a baseline for the PPP stakeholders to set criteria for risk allocation and for assessing the value of risk costs in the risks register. Research constraints and implications Results may not be as broadly applicable as possible due to the study's environment [28].

Likhitha 2021 These findings align with those of previous research. The impact of exchange rates does not appear to follow a particular pattern, according to this conclusion. The influence of currency exchange rate volatility during negotiations is thought to be negligible at the division level. In terms of the driving trade flow between the US, Europe, and China, exchange rate volatility is not a very important deciding factor. Another important consideration is income. Internal imports rise along with the spending power of domestic consumers when national GDP rises. In a similar vein, foreign exchange earnings are a significant factor in determining a country's exports. An essential factor in connecting the nation to the international supply chain is exchange



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rates. Exports typically have a large percentage of imports, therefore the effects of exchange rate depreciation and how they affect all final goods are intricate. If the end product's "cheap" export results from the exchange rate depreciation, then imports are "more expensive" for domestic producers. While exchange rate coverage methods exist, they are likely limited, moderate, or prohibited [29].

Lopez 2021 The framework makes it possible to quantitatively evaluate several mechanisms, the most significant of which are distribution costs, the exogenous and gradual development dynamics of new exporters, and the currency denomination of sunk-entry costs into the overseas market. Comparing the behavior of simulated variables with empirical estimates and supporting data from the literature allows for the evaluation of various model iterations. Furthermore, we offer an evaluation of the impacts on the extensive and intensive export margins [30].

### **III. Proposed Methodology**

Using a mixed-methodologies approach, this study provides a comprehensive knowledge of the impact of exchange rate variability on SME import-export operations by combining quantitative and qualitative methods. The quantitative part entails a thorough examination of empirical data using statistical methods to financial measures like revenue, profit margins, and export volumes in order to identify and measure the correlations between these performance indicators and changes in exchange rates. This methodology facilitates the discernment of trends, associations, and the statistical importance of the effects resulting from fluctuations in exchange rates. Conversely, the qualitative element offers more profound contextual understanding by recording SME's actual experiences through interviews and surveys with owners and managers. These qualitative techniques investigate SMEs' perceptions and responses to currency rate concerns, exposing the tactics they use, like diversification and hedging. The study guarantees a thorough analysis that incorporates numerical data with practical insights by combining both approaches, improving our understanding of how exchange rates affect SMEs overall.

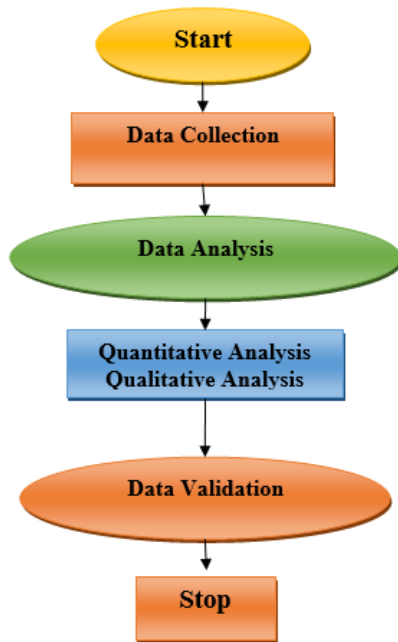


Figure 2 Proposed Flow chart

### A. Data Collection

In order to obtain a complete picture of the effects of exchange rate variability, data for this study were gathered from a carefully chosen sample of 100 SMEs involved in international commerce. Three separate parts made up the data gathering method in order to guarantee a thorough examination of the quantitative and qualitative elements. We collected all of the participating SME's financial data for the previous five years. Detailed annual financial accounts that included vital information on important performance indicators including revenue, profit margins, and export quantities were part of these records. It was possible to conduct an empirical evaluation of how historical exchange rate fluctuations have affected the financial performance of SMEs by examining these financial records. It was possible to find trends and patterns in the association between exchange rate volatility and financial results thanks to this longitudinal data. Managers and owners of small and medium-sized businesses received structured questionnaires. The purpose of the survey instrument was to gather quantitative data on a number of topics, such as opinions regarding exchange rate risk, the application of hedging techniques, modifications to prices, and other operational changes brought about by currency fluctuations. The survey results provide a quantitative view on risk management techniques by shedding light on how exchange rate volatility affects SMEs' strategic adjustments and decision-making procedures. To acquire qualitative insights, a subset of twenty SME owners and managers participated in in-depth interviews. These semi-structured interviews made it possible to thoroughly examine the





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SMEs' difficulties in controlling currency rate risks. The interviews revealed the precise tactics used by SMEs, their efficacy, and the contextual elements influencing their risk management approaches through open-ended questioning and flexible discourse. Exchange rate variability's practical effects on SME operations were better understood thanks to the qualitative data, which supplemented the quantitative findings.

### *B. Data Analysis*

The data analysis process was divided into quantitative and qualitative components:

**Quantitative Analysis:** Statistical software was used to examine the financial data in order to find the relationship between exchange rate variability and SME performance measures. Calculating correlation coefficients allowed for the evaluation of the direction and intensity of the relationship between revenue, profit margins, and export volumes and changes in exchange rates. Additionally, regression analysis was performed, adjusting for other variables including industrial sector and business size, to investigate the effect of exchange rate variability on financial performance.

**Qualitative Analysis:** The qualitative data from surveys and interviews were analyzed thematically. This involved coding responses to identify recurring themes and patterns related to exchange rate risk management. Key themes included the use of financial instruments for hedging, diversification strategies, pricing adjustments, and cost management practices. The qualitative analysis provided context to the quantitative findings, highlighting how SMEs adapt to exchange rate fluctuations and the effectiveness of different risk management strategies.

### *C. Sampling Method*

The sample of 100 SMEs for this study was selected using a stratified random sampling technique to ensure comprehensive representation across different industry sectors and firm sizes, thereby capturing a diverse range of experiences and strategies related to exchange rate variability. This approach was critical for obtaining a representative sample that mirrors the broader population of SMEs engaged in international trade. Stratified random sampling involved categorizing SMEs into distinct strata based on two primary factors: industry sector and firm size. The industry sectors included manufacturing, agriculture, services, and others, reflecting the diverse nature of SMEs involved in import-export activities. By stratifying the sample according to these industry



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categories, the study ensured that insights were drawn from a wide array of sectors, each of which may experience and manage exchange rate variability differently. For instance, manufacturing firms might face different challenges compared to service-oriented SMEs due to varying exposure to international markets and currency fluctuations. In addition to industry sector, SMEs were also stratified by firm size—specifically distinguishing between small and medium enterprises. This stratification was essential as small and medium-sized firms often have different capacities, resources, and strategies for managing exchange rate risks. Small enterprises may be more vulnerable due to limited financial resources and less sophisticated risk management techniques, while medium-sized firms might have more developed strategies but still face significant challenges. The stratified sampling technique allowed for a more nuanced analysis by making certain that the sample was representative of various SME population categories. Because of this methodological rigor, the study was able to collect a wide range of experiences and methods, which improved the findings' robustness and made sure the knowledge gathered was applicable to a variety of SMEs engaged in import-export activities.

#### *D. Data Validation*

There were a number of strict procedures put in place to guarantee the authenticity and dependability of the data. Cross-validating data from financial records, questionnaires, and interviews was one way that triangulation was used to improve the findings' comprehensiveness and correctness. A small sample of SMEs participated in a pilot test of the survey instrument to help with question revision and clarity, as well as to make sure the survey successfully gathered pertinent data. The financial data also underwent extensive examinations to find and fix anomalies and inconsistencies as part of data cleaning procedures. By using a methodical methodology, it was possible to guarantee that the information gathered was accurate, trustworthy, and representative of the real effects of exchange rate fluctuations on SME import-export activities.

#### *E. Ethical Considerations*

The study received ethical approval, guaranteeing that all research operations complied with ethical guidelines. Prior to the collection of data, participants were told about the goal of the study and their agreement was acquired. The study upheld strict confidentiality protocols, with all data anonymised to protect both person and corporate identities. Participants were given the assurance that the





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information they provided would only be utilized for research, and precautions were taken to safeguard their private information. This ethical framework made sure that research integrity and participant respect were upheld throughout the investigation.

#### **IV. Result & Discussion**

There is a thorough examination of the information gathered from the sample in the Results and Discussion section. of 100 SMEs involved in import-export activities. This section begins with a quantitative examination of financial records, revealing significant correlations between exchange rate variability and key financial metrics such as revenue, profit margins, and export volumes. Following this, the qualitative findings from surveys and in-depth interviews are discussed, providing contextual insights into SMEs' perceptions of exchange rate risks and their strategies for managing these challenges. The integrated analysis offers a nuanced understanding of the impacts of exchange rate fluctuations on SME performance and strategic responses.

- ***Quantitative Analysis***

**Metrics Analyzed:** In order to assess the effect of exchange rate variability on SMEs, a number of important financial metrics were the focus of the quantitative analysis. Among these measurements were:

**Revenue:** Total income generated from sales of goods and services. Revenue data were used to assess how fluctuations in exchange rates affect overall business income.

**Profit Margins:** The ratio of net profit to total revenue, expressed as a percentage. This metric provides insight into the profitability of SMEs and how it is influenced by exchange rate changes.

**Export Volumes:** the amount of merchandise that SMEs export. This measure aids in assessing how fluctuations in exchange rates impact the amount of foreign trade that SMEs perform.



**Table 2 Correlation Analysis**

Variable	Correlation Coefficient (r)	Significance (p-value)
Exchange Rate Variability	-0.45	0.01
Revenue	-0.40	0.02
Profit Margins	-0.48	0.01
Export Volumes	-0.35	0.05

Table 2 presents the correlation analysis's findings, which illustrate the connections between important SMEs' financial KPIs and exchange rate volatility. Exchange rate variability has a correlation coefficient (r) of -0.45 and a statistically significant moderately negative connection (p-value) of 0.01. This indicates a negative correlation between overall business success and increasing exchange rate variability. Revenue shows a significant negative link with a correlation coefficient of -0.40 and a p-value of 0.02, suggesting that SME revenues tend to decrease as exchange rate volatility rise. With a p-value of 0.01, profit margins exhibit a correlation coefficient of -0.48, indicating a strong negative impact and indicating that greater exchange rate unpredictability considerably reduces financial success. Export volumes and correlation coefficient are moderately negative and statistically significant at the 5% level, with a p-value of 0.05 and a correlation coefficient of -0.35. This suggests that fluctuations in currency rates have a detrimental impact on the amount of items that SMEs export as well. Overall, the correlation study emphasizes how exchange rate volatility negatively impacts SMEs' financial stability and stresses the necessity of using efficient risk management techniques.

- *Qualitative Analysis*



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**Thematic Findings:** The qualitative analysis provided insights into how SMEs manage exchange rate risks and adapt their strategies:

- **Hedging Practices:** To protect themselves from changes in exchange rates, many SMEs employ financial instruments like options and forward contracts. By stabilizing expenses and revenues, these instruments lessen the negative effects of exchange rate fluctuations on financial performance.
- **Diversification Strategies:** SMEs often diversify their markets and product lines to spread exchange rate risk. By expanding into multiple international markets, SMEs can mitigate the effects of adverse currency movements in any single market.
- **Pricing Adjustments:** Some SMEs adjust their pricing strategies to account for exchange rate changes. This includes modifying export prices or negotiating with suppliers to manage cost fluctuations.
- **Cost Management:** SMEs implement cost-cutting measures to offset the impact of exchange rate variability. This includes optimizing operational efficiency and reducing non-essential expenses.

**Case Studies:** Several case studies highlighted in the interviews illustrated the practical challenges and solutions faced by SMEs:

- **Case Study 1:** An SME in the manufacturing sector reported using forward contracts to lock in exchange rates for raw material purchases. This strategy helped maintain stable production costs despite currency fluctuations.
- **Case Study 2:** An SME in the agricultural sector experienced a decline in export volumes due to currency volatility. The company responded by diversifying its market reach and investing in cost-efficient technologies.

## V. Conclusion

The study's conclusion emphasizes the crucial influence that fluctuating exchange rates have on the strategic operations and financial performance of small and medium-sized businesses (SMEs) involved in import-export trade. Exchange rate fluctuations have a significant impact on key



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financial metrics like revenue, profit margins, and export volumes, according to the study, which employs a comprehensive mixed-method approach that integrates quantitative analysis of financial records with qualitative insights from surveys and interviews. Exchange rate fluctuation and these measures have a moderate to strong negative link, according to the correlation study. Statistically significant results show that higher currency volatility lowers export volume and reduces revenue and profitability. These results highlight how susceptible SMEs are to outside economic forces, especially fluctuations in exchange rates, which can impair their ability to maintain operational efficiency and financial stability. The study's qualitative component offers a deeper insight of how SMEs see and manage these risks, revealing that while some make use of diversification and hedging techniques, others struggle because they lack the necessary capital and experience. Speaking with SME owners and managers, it becomes clear that in addition to financial instruments, strategic adaptability and flexible operational procedures are also necessary for effective risk management. The study emphasizes how crucial it is for financial institutions and legislators to provide SME resilience through customized support. This includes having access to reasonably priced hedging tools, financial advising services, and risk management training courses. The moral. The study's adherence to certain guidelines, such as securing informed consent, guaranteeing confidentiality, and preserving data anonymity, supports the validity and dependability of the conclusions. The study adds to our knowledge of the difficulties small and medium-sized enterprises (SMEs) confront in the unstable global economy and offers helpful suggestions for enhancing their risk management systems. Stakeholders can assist SMEs in managing currency rate risks more effectively by attending to their unique demands; this will ultimately promote the SMEs' expansion and sustainability in global commerce. The report also makes recommendations for future research directions, including examining the long-term impacts of persistent exchange rate volatility and how technical developments can improve SMEs' risk management procedures. To sum up, this research not only measures the negative consequences of exchange rate volatility on SME financial performance, but also provides insightful information about the tactics and safety nets required to reduce these risks, helping to build stronger, more competitive SMEs in the global economy.



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