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## The Impact of Exchange Rate Fluctuation on Tourist Arrivals of Sri Lanka

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**ABSTRACT:** This study analyses the impact of exchange rate fluctuations on tourist arrivals to Sri Lanka using time series data from 1960 to 2023. Independent variables include the annual average exchange rates of the US Dollar, the British Pound, Japanese Yen (JPY) and Indian Rupee and a "Dummy" variable indicating the economic policy change in 1977 (0 for inward policy before 1977 and 1 for outward policy after 1977). These currencies were selected based on recent report by the Central Bank of Sri Lanka that highlighted the significant fluctuations in exchange rates against the Sri Lankan Rupee (LKR).

The results showed no statistically significant association between these exchange rates and tourist arrivals, with high p-values (above 0.05) and very low R-squared values, suggesting that exchange rate fluctuations do not have a significant impact on tourist arrivals to Sri Lanka. The dummy variables also showed no significant effect, indicating that the policy change did not affect tourist numbers.

Augmented Dickey-Fuller test confirmed that the original time series data was not stationary but became stationary after the first differentiation. Multiple regression analysis of the differentiated data, variance inflation factors (VIFs) and tolerances did not indicate multicollinearity between the independent variables.

Based on these findings, several recommendations are proposed to improve Sri Lanka's tourism sector. Diversifying marketing strategies through digital marketing and social media can promote the country's cultural heritage and attractions. Significant investment in tourism infrastructure such as transport networks and accommodation are essential to enhance the tourist experience. Ensuring geopolitical stability and robust security measures will boost tourist confidence. Developing niche tourism segments such as ecotourism and adventure tourism will cater to specific interests while simplified visa policies and improved air connectivity will increase accessibility. Finally, staying on top of global tourism trends and adapting strategies accordingly will help Sri Lanka maintain its competitiveness as a tourist destination.

These strategies are aimed at promoting tourism sector growth regardless of exchange rate fluctuations and ensuring the sustainable development of tourism in Sri Lanka.

#### CHAPTER 1 - INTRODUCTION TO THE RESEARCH STUDY WITH ITS BACKGROUND

#### 1.1 Introduction

This chapter clears the way to the research study which strives to determine how fluctuations of exchange rate make impact on tourist arrivals of Sri Lanka. The researcher will develop the theoretical conceptions in order to draw a satisfactory note towards the ultimate objective of this particular research based on a background of the study.

#### 1.2 Background of the Study

Over the past decade, there was a considerable improvement in foreign visitor arrivals in Sri Lanka from different countries. Much conjecture surrounds the factors influencing the trends and in particular, the function of movements in exchange rates which have observed the fluctuations over the periods. The Sri Lankan tourism industry, as one of the fastest developing industries of the post conflict economy, achieved multitude of success during 2023. As per Sri Lanka Tourism Development Authority (2024), tourist arrivals recorded 1,487,303. Throughout the year 2023, there was a considerable improvement in tourist arrivals by 106.6% when compared to the corresponding months of the year 2022 which indicates a positive trajectory for tourism industry of Sri Lanka. This surge represents a much more interest in Sri Lanka as a preferred destination for tourism. September 2023 accounted for the most substantial growth rate, soaring by 275.6% from the previous year 2022. This surge could be characterized to various factors such as favourable weather conditions and holiday seasons in major source markets. December 2023 witnessed the peak tourist season with the highest number of arrivals which accounted 210,352 visitors. This emphasizes December's popularity, likely forced

by winter vacations and other advantageous conditions. Conversely, Month May accounted the lowest tourist arrivals which is 83,309 visitors. This decline occurred due to less favourable weather conditions and fewer incentives for travel during this period. When breakdown of tourist arrivals is taken into consideration by regions in 2023 indicates that Europe consisted 50.9% of the total arrivals with major contributions from countries such United Kingdom, Russia, France and Germany driving this growth. Conversely, a substantial improvement in arrivals from China, India and Maldives significantly boosted tourist numbers in the Asia and Pacific region which accounted for 40.1% of the total arrivals. The United State of America contributed 6.4% to the overall arrivals. However, Middle East region comprised 1.9%. while Africa accounted for a modest share of 0.7% in total tourist arrivals. These statistics emphasize the variety of tourism patterns across regions highlighting the impact of specific regions and countries on the globe.

Tourist arrivals for business purposes counted for a marginal level of 4.5 % while the share of tourist arrivals for other purposes such as pleasure, MICE, visiting friends and relatives was about 77% of total arrivals in 2023.

According to the Central Bank of Sri Lanka (2024), the Sri Lanka rupee appreciated gradually in 2023 under a market-based exchange rate policy executed by the Central Bank although there was some intermittent volatility. The appreciation trend remains since then and the Sri Lanka rupee appreciated by 2.1% against the US dollar in January 2024. The Sri Lanka rupee depreciated by 44.8% against the US dollar in 2022 appreciated by 12.1% in 2023. Meanwhile when other currencies are taken into consideration, the Sri Lanka rupee appreciated against other major currencies, such as the euro by 7.9%, the pound sterling by 6%, the Japanese yen by 19.5%, the Indian rupee by 12.6% and the Australian dollar by 10/8% during 2023. The real effective exchange rate appreciated during the month of December 2023. However, the real effective exchange rate recorded an overall depreciation in 2023.

The exchange rates of Sri Lanka including the other counties are major influential signals for attracting the tourists into Sri Lanka. The fluctuations in the value of exchange rates highly affect the number of arrivals of tourists being attracted to Sri Lanka. Therefore, this research study specially focuses on the impact on the arrivals of the tourists into Sri Lanka due to the fluctuations in the value of exchange rates with various countries.

#### 1.3 Objective of the Research

To empirically investigate the impact of fluctuation in various exchange rates on tourist arrivals of Sri Lanka.

#### 1.4 Limitations of the Study

This study focuses only on the empirical data of Sri Lanka related to tourist arrivals and different exchange rates. Different exchange rates are associated with different countries but the relationship analysed in this study is only applicable to Sri Lanka. Hence, this study does not consider any kind of correlation test related to other countries.

#### **1.5 Chapter Summary**

The above chapter carries the background of the study and critical consideration has been given by the researcher towards many crucial areas such as limitations of the study and the research objective which are more likely to drive this study towards an unbiased destination and as a result, the researcher currently has the task of referring previous literature gathered on related topics to this research study. Therefore, second chapter carries a critical evaluation of literature which will provide a foundation on which this research study will be built.

#### **CHAPTER – 2 LITERATURE REVIEW**

#### 2.1 Introduction

Since the researcher has to generate and refine research ideas while critically reviewing them, the literature review plays a vital role during this study. In order to identify and test the theories and ideas, to develop a conceptual framework for the research as well as to explore data while developing theories from them, It will be required to heavily rely on the literature review. As a result, this particular chapter carries a critical review of the literature including concepts, theories and ideas related to exchange rate and its impact on tourist arrivals from previous studies.

#### 2.2 Literature Review

# 2.2.1 Concepts of Exchange rate, Exchange rate volatility, Tourist arrivals and Outward economic oriented policy implemented in Sri Lanka

Exchange rates are the price of one currency relative to another. Exchange rate agreements are decided by governments. Other exchange rates approved by governments are market rates and are determined primarily by legal market forces, or in the case of countries with multiple exchange rate agreements, primary, secondary and tertiary rates. Development relevance. In a market-oriented economy, resource allocation decisions made by households, producers and governments are influenced by relative

prices, including real exchange rates, real wages, real interest rates and other prices in the economy. Relative prices also significantly reflect the decisions of these players. Relative prices convey vital information about the interactions of economic agents within an economy and with the rest of the world (The World Bank, 2024).

Hook and Boon (2000) stated that since the introduction of the floating exchange rate regime in 1973, the impact of exchange rate fluctuations on international trade volumes has been the subject of theoretical and empirical research. Exchange rate volatility is the threat connected with unanticipated fluctuations in exchange rates. Economic fundamentals such as inflation rates, interest rates, and balance of payments have become more volatile since the 1980s and early 1990s, which in themselves are sources of exchange rate fluctuations. More recently, increased cross-border capital flows, facilitated by capital liberalization, technological advances, and trends in currency speculation, have also caused exchange rate fluctuations (Hook and Boon 2000). Since the inception of the general floating exchange rate regime in 1973, the uncertainty and the volatility of exchange rate fluctuations has been very high that it has prompted researchers and policymakers to investigate the nature and extent of the impact of such fluctuations.

Foreign visitors are the number of tourists who travel to a country away from their general environment, other than their country of usual residence, for a period of 12 months or less, with the main purpose of visiting, not a paid activity within the country visited. The source of arrivals and the method of collection vary from country to country. In some cases, data are obtained from border statistics (police, immigration, etc.) and supplemented by border surveys. In other cases, data are obtained from accommodation providers. Some countries limit their arrivals to those arriving by air, others to those staying in a hotel. Some countries consider the arrivals of their nationals abroad, others do not. Therefore, care should be taken when comparing arrivals between countries. Inbound data refers to arrivals, not travellers. Therefore, if a person travels to a country multiple times in a given period, each time is counted as a new arrival (The World Bank, 2024)

Dornbusch (1992) stated that in 1977, following the disadvantageous economic results of its inward-looking policies, Sri Lanka became the first country in South Asia to embark on a comprehensive economic liberalization process. The first wave of reforms, from 1977 to 1979, included comprehensive trade liberalization, a redesign of the foreign investment approval and supervision process to give new incentives to investors, comprehensive interest rate reform and opening up of the banking sector to foreign banks, restrictions on public sector participation in the economy and redetermination of the exchange rate. Despite continuing significant macroeconomic problems, political instability and ethnic conflict since 1983, market-oriented reforms have been sustained and expanded over the years. A "second wave" liberalization package was announced in 1990, which included an ambitious privatization program, further tariff reductions and simplification of the customs structure, and the lifting of exchange controls on current account transactions. After nearly two decades of significant reforms, Sri Lanka is now considered one of the most open economies in the developing world.

Aforesaid policy direction will carry on for the foreseeable future. Indeed, the most dramatic change in Sri Lanka's political landscape in recent years has been the coming together of the major parties and groups around overall economic policy. The achievement of greater openness and liberalization is now a bipartisan policy in Sri Lanka.

#### 2.2.2 Findings of previous studies related to impact of foreign exchange and its volatility on Tourist Arrivals.

Lelwala and Gunaratne (2008) investigated the economic determinants of short-run and long run tourism demand from United Kingdom to Sri Lanka by utilizing error correction mechanism and co-integration with the use of quarterly time series data for the period from quarter 1 of 1987 to quarter 4 of 2007. Study reveals that the exchange rate variable is significant in long run revealing the elasticity of around 0.7, but it causes to improve the arrival of tourists slightly since the positive elastic is less than one. Study concludes that exchange rate showed a positive effect on tourist arrivals in the long run that is a favourable exchange ratio between Sri Lankan rupee and Pound Sterling may gain a beneficial situation for Sri Lankan tourism in the long run, but as per the analysis there is no impact in the short run.

Chang and McAleer (2009) revealed conditional volatility estimates are not made impact by the long memory properties of the conditional mean specification. This study investigated daily arrivals of Korean tourists in Taiwan from January 1, 1990 to December 31, 2008. A heterogeneous autoregressive (HAR) model was used to capture the long-memory characteristics of both datasets. Empirical results showed that the time series of Korean tourists to Taiwan and the won/NT dollar exchange rate were constant. Furthermore, the estimated symmetric and asymmetric conditional volatility models, especially the widely used GARCH, GJR, and EGARCH models, all fit the data very well. In particular, the estimated models were able to explain the persistence of higher volatility observed at the end of the sample period, mainly due to the global financial crisis. The empirical conditions for the second moment also generally supported the statistical validity of the model of Korean tourist arrivals in Taiwan (constant won/NT dollar exchange rate), and statistical inference was valid. Moreover, the estimates were similar to those from financial time series data, showing short- and long-term shock persistence and asymmetric effects of positive and negative shocks of the same magnitude as volatility.

George et al. (2014) investigated the impact of exchange rate fluctuations on tourist flows to Turkey in the period 1994–2012 through cointegration analysis. As per findings (i) there is a negative relationship between exchange rate fluctuations and tourist flows to Turkey; (ii) relative price ratios have a negative effect on tourist flows, suggesting that relatively expensive locations discourage tourists in the face of intense international competition among alternative destinations; (iii) GDP per capita in the tourist's origin measured in purchasing power parity has a positive effect on tourist flows. Finally, they draw conclusions and suggest some direct policy conclusions. First, policymakers in tourist destination countries who wish to target potential markets for their tourism products should generally avoid markets that are susceptible to exchange rate fluctuations due to political and social upheaval or financial instability

Agiomirgianakis et al. (2015) examined the impact of exchange rate volatility (ERV) on Iceland's tourist exports from the first quarter of 1990 to the fourth quarter of 2014. Some researchers argue that exchange rate volatility leads to a decline in tourist numbers. This study proposes a new measure to measure volatility. The empirical methodology used is based on the theory of cointegration and an error-corrected representation of exchange rate volatility measures using cointegration autoregressive distributed lag (ARDL) modelling. Overall, results suggest that volatility has a negative impact on tourist arrivals in Iceland.

Nugroho et al. (2017) revealed through the study conducted based on both primary data (a simple survey of 300 foreign tourists, and in the second stage a survey of 1000 foreign tourists in major tourist destinations in Bali) and secondary data (secondary data is a time series). From the data of the Indonesian Rupiah (IDR) to US Dollar exchange rate, foreign tourist arrival statistics, hotel room occupancy and other related data, it can be seen that the increase in room prices has not affected the tourist demand for accommodation in Bali. As with the room occupancy, the number of foreign tourist arrivals also shows the same trend during periods of both appreciation and depreciation. It is also noted that the increasing trend of foreign tourists accelerated during the appreciation. Therefore, the study concludes that tourists do not respond to the exchange rate in terms of their travel behaviour. The survey also shows that although some respondents believe that the exchange rate influences their decision to travel to Bali, the influence is not significant when comparing all respondents (21.93% in the first stage of the survey and 8% in the second stage of the survey).

Karimi, Khan and Karmelikli (2018) found that the asymmetric impact of exchange rate and tourism receipts on tourist arrivals in Malaysia. A nonlinear model was developed to examine the symmetric and asymmetric impacts of quarterly exchange rate data from 2000 to 2017. The results reveal that depreciation and appreciation of the local currency led to a decline in inbound tourist arrivals in the long run. Furthermore, it is found that price rigidity in Malaysia's tourism sector may affect tourists' decision to choose alternative destinations. Furthermore, study reveals a decline in the real effective exchange rate has no adverse impact in the long run.

Tung (2019) investigated the impact of exchange rate policy on the number of foreign tourists in Vietnam from 2006 to 2018. The regression results show that the exchange rate has a positive impact on the demand of foreign tourists, and the devaluation of the local currency also had a positive impact on the number of foreign tourists in Vietnam. The quantitative results also show that the number of foreign tourists in the early period has a positive impact on the current period.

Nugroho et al. (2017) revealed from the study conducted titled "The Impact of Oil Price, Internet, and Exchange Rate Fluctuations on the Number of Foreign Tourists in Indonesia" using a time series dataset from 1995 to 2018 and an Autoregressive Distributed Lag Model (ARDL) and an Error Correction Model (ECM-ARDL). The study shows that the Internet has a long-term positive impact on the number of foreign tourists. For every 1% increase in the Internet, the number of foreign tourists increases by 0.49%. However, the fluctuations in oil prices and exchange rates do not have a significant impact on the number of foreign tourists. In the short term, the fluctuations in oil prices have a negative impact on the number of foreign tourists. At the same time, the exchange rate has a positive impact on the number of foreign tourists.

Jena and Dash (2020) investigated the degree and structure of the impact of exchange rate fluctuations and volatility on tourist arrivals to India using quantile regression analysis (QRA) over the period January 1990 to March 2015. The study used tourist arrivals as the dependent variable. The independent variables are world GDP per capita, INR/USD nominal exchange rate, and exchange rate volatility. The impact of exchange rates on global tourist arrivals and the situation of the ten largest countries were investigated. With regard to the impact of exchange rate changes, the results contrast for both measures of tourist arrivals. In the case of total tourist arrivals to India, the impact is positive, meaning that devaluation (appreciation) of the local currency has a positive (negative) impact in periods of normal to bad phase of tourist arrivals. However, for the top 10 countries, devaluation (increase) of their national currency has a negative (positive) impact on tourist arrivals in very good and bad times. However, for these top 10 countries, the per capita income of the respective country is much more important, as it has a strong positive impact on all conditions of tourist arrivals. A similar effect is observed for exchange rate fluctuations. Moreover, the impact of exchange rate changes and volatility is asymmetric when tourist arrival conditions in the top 10 countries are different. Therefore, the same tourism policy may not work in all situations.

Aslanoglu, Erdogan, and Aksu (2021) examined the impact of host country GDP and host country real exchange rate on tourist arrivals from 65 countries to Turkey. A panel cointegration analysis utilizing cross-sectional dependence with common correlated effects (CCE) method was conducted for the period from 2002Q1 to 2017Q4. The preliminary results of the study suggest that both real exchange rate and GDP affect international tourist arrivals to Turkey. However, the extent of the impact varies depending on the countries studied.

## 2.3 Chapter Summary

As a result of the above executed literature review, this chapter laid the foundation towards third chapter (the methodology of the research study) which will involve an empirical investigation using multiple sources of evidences.

#### **CHAPTER THREE- METHODOLOGY**

#### 3.1 Introduction

Research methodology or study design simply refers to the system of collecting data for a particular research project. Such data may be collected in order to conduct theoretical or practical research. However, this chapter portrays the methodology of the current research paying significant concentration towards the types of data utilized and approach to data collection and analysis. Once this chapter is conducted successfully, the researcher will have the opportunity to develop a comprehensive data analysis by paying special emphasis towards maintaining the unbiased nature of the overall research.

#### 3.2 Method of data collection and Conceptual framework

Research is a systematic investigation. Therefore, it is significant to construct a theoretical frame work. According to the literature review, the study found so many variables. As to the objective of this research and considering information of recent press releases and annual reports of Central Bank, Sri Lanka under the heading "External sector performance", following variables will be analysed because appreciation and depreciation of exchange rate of Sri Lanka through recent press releases and recent annual reports of Central Bank of Sri Lanka have been mainly revealed against international currencies of United State Dollar (USD), Pound Sterling (GBP), Indian Rupee (INR) and Japanese Yen (JPY). Therefore, official annual yearly average of above mentioned each international currency in Sri Lankan rupee (LKR) – "LCU per International currency yearly average" from 1960 to 2023 based on information collected from database of World Bank and annual reports of Central Bank of Sri Lanka was considered as independent variables while number of tourist arrivals from 1960 to 2023 gathered from yearly reports of Sri Lanka Tourism Development Authority was considered as the Dependent variable. Further a "Dummy" independent variable was also introduced for the model. The dummy variable can be defined as 1 for outward oriented economic policy of Sri Lanka executed in 1977. The relationship between dependent variable and independent variables are draft on the following conceptual frame work.



Below are developed null hypothesis and alternative hypothesis based on Conceptual framework developed. HP 1 (null) – There is not a relationship between fluctuation of US Dollar and Tourist arrivals of Sri Lanka.

HP 1 (alternative) – There is a relationship between fluctuation of US Dollar and Tourist arrivals of Sri Lanka.

HP 2 (null) – There is not a relationship between fluctuation of Pound Sterling and Tourist arrivals of Sri Lanka.

HP 2 (alternative) – There is a relationship between fluctuation of Pound Sterling and Tourist arrivals of Sri Lanka.

HP 3 (null) – There is not a relationship between fluctuation of Japanese Yen and Tourist arrivals of Sri Lanka.

HP 3 (alternative) – There is a relationship between fluctuation of Japanese Yen and Tourist arrivals of Sri Lanka.

HP 4 (null) – There is not a relationship between fluctuation of Indian Rupee and Tourist arrivals of Sri Lanka.

HP 4 (alternative) – There is a relationship between fluctuation of Indian Rupee and Tourist arrivals of Sri Lanka.

HP 5 (null) – There is not a relationship between fluctuation of Dummy variable (inward or outward oriented policy) and Tourist arrivals of Sri Lanka.

HP 5 (alternative) – There is a relationship between fluctuation of Dummy variable (inward or outward policy) and Tourist arrivals of Sri Lanka.

Using above mentioned hypotheses, the following model has been developed:

## Tourist Arrivals of Sri Lanka = f (FUSD, FGBP, FJPY, FINR, FD)

Where; FUSD is fluctuation of US Dollar, FGBP is fluctuation of Pound Sterling. FJYP is fluctuation of Japanese Yen and finally FD is fluctuation of Dummy variable which represents inward or outward oriented economy policy of Sri Lanka.

## 3.3 Method of Data Analysis & Presentation

The data collected by the researcher are analysed in such a way to make interpretations. Since above mentioned all independent variables and dependent variables are time series, it is crucial to investigate stationary and allow for difference if data are non-stationary before regression analysis is run. Therefore, Augmented Dickey-Fuller test is applied to test the stationary of the time series data before applying Multiple Regression. After confirmation of stationarity or variables are not suffering from the problem of spuriousness, multiple regression is useful not only to investigate the relationship between independent variables and the dependent variable but also to examine any collinearity among independent variables which disrupts the relationship of independent variables with the dependent variable. Inferential analysis includes multiple Regression analysis which is interpreted through the Multiple R, R Square, P- value...Etc. Therefore, the collected data are analysed and interpreted using the following statistical tools and techniques.

## 3.3.1 Correlation Analysis ("r")

The level of association between the two or more variables has described in this analysis. When it comes to analysis, all the variables need to be numerical (quantitative). The value is ranging from -1 to +1. If the correlation coefficient is negative, then the variables are inversely proportional and it is -1; if the coefficient is 0, there is no association between variables. If the coefficient ends up with a positive value, then the variables are directly connected and its highest value is +1.

Figure 2: Equation of correlation coefficient



#### 3.3.2 Multiple R

Multiple correlation coefficients (Multiple R) are a measure of the Strength and the direction of the relationship between independent variables and dependent variable. It (Multiple R) ranges from +1 to -1. +1 which is considered as very strong direct relationship, "0" is considered as no relationship, to -1 is considered as very strong inverse relationship.

## **3.3.3 Coefficient of Determination (R Square)**

Coefficient of determination (R Square) is a statistic that will give some information about the goodness of fit of a model. In regression, the Coefficient of determination (R Square) is statistical measure of how well the regression line approximates the real data points. Value of 1 indicates that the regression line completely fits the data. R Square is always positive. The R Square assumes that every independent variable in the model helps to explain variation in the dependent variable. So, it tells the percentage of explained variations as if all independent variables in the model affect the dependent variable.

#### 3.3.4 Variance Inflation factor

The Variance Inflation Factor explains how much the variance of a regression coefficient is inflated due to multicollinearity. A high VIF signals a high level of multicollinearity.

- A VIF greater than 10 signals high multicollinearity that may need to be addressed.
- A VIF value from 5 to 10 signals moderate multicollinearity.

• A VIF lower than 5 signals low or no multicollinearity.

## 3.3.5 Tolerance

Tolerance means the reciprocal of Variance Inflation Factor. It portrays the amount of variance in an independent variable that is not explained by other independent variables.

- Tolerance less than 0.1 signals high multicollinearity.
- Tolerance between 0.1 and 0.2 signals moderate multicollinearity.
- Tolerance greater than 0.2 signals no multicollinearity.

## 3.4 Chapter Summary

The above chapter which paid considerable attention towards the development of the research methodology of the research study, the researcher has identified the best possible methods for data collection and analysis in order to enhance the respective research as an important source of knowledge. As a result, a strong foundation has been laid by the researcher in order to develop a satisfactory analysis of gathered data within the fourth chapter which follows where special emphasis will be made towards developing conclusions through the data analysis.

## **CHAPTER FOUR - DATA ANALYSIS AND PRESENTATION**

## 4.1 Introduction

Data presentation and analysis carries a comprehensive analysis of secondary data which were collected by the researcher from sources of World Bank, Central Bank of Sri Lanka and annual reports of Sri Lanka Tourism Development Authority. Through the usage of appropriate data analysis techniques and tools the researcher tries to develop a strong understanding in order to realize the ultimate objectives of the research study in a way that they will contribute as a valuable source of information for any related research study in the future.

## 4.1.1Augmented Dickey Fuller Test (Unit root test)

The results (P Values) of the Augmented Dickey Fuller test generated from "E views" software after import of data from excel files are presented in the table 01 for all the variables (dependent and independent) used in this model at first difference I (I) under the consideration of situation "trend and intercept". It is observed that all the variables are not suffering from the problem of spuriousness when they are utilized in the model at the first difference I (I). It means that there is no unit root and data are stationary at the first difference I (I). However, researcher had to allow for first difference of all Dependent and Independent variables because there was a unit root (data series is non stationary) at the data level forms I (0) of all the variables when they are applied under the "trend and intercept". Annexure 1 shows all the results of Augmented Dickey Fuller Test both at the data level forms 1 (0) and at the first difference I (I) generated from "E views" application software.

Variable	P Value under consideration of the situation "Trend and Intercept"
Annual USD in LKR	0.0000
Annual AUD in LKR	0.0000
Annual GBP in LKR	0.0000
Annual JPY in LKR	0.0011
Annual INR in LKR	0.0000
Dummy	0.0000

Table 1: Results (P Values) of Augmented Dickey Fuller Test at the first difference 1 (I)

## 4.1.2 Multiple Regression Analysis

Since stationarity of data can be proven as per above Dickey Fuller Test at the first difference. Multiple regression was executed considering the first difference of data to investigate the relationship between variables. As per multiple regression analysis (Annexure 2), the multiple coefficients of correlation (Multiple R) are 0.212. This indicates that the correlation among the independent and dependent variables is positive. This statistic, which ranges from -1 to +1, does not indicate statistical significance of this correlation. Multiple R = 0.212 suggests a weekly "strong" relationship between independent and dependent variables. However, P value of the ANOVA table is 0.747 which is greater than 0.05. It indicates that there is no statistically significant relationship between concerned independent variables and dependent variable. Further according to coefficient table, P value of each independent variable is higher than 0.05 (Annexure 2). Therefore, it can be concluded that there is not a statistically significant relationship among fluctuation in US Dollar, fluctuation in Pound Sterling (GSP), fluctuation in Japan Yen (JPY), fluctuation in Indian Rupee (INR) and Inward or outward oriented economy policy implemented by Sri Lanka and Tourist arrivals.

Therefore, statistical evidences are sufficient to accept null hypothesis. Value of R square of multiple regression model is 0.045 (Annexure 2) which means that 4.5% of proportion of variance in the dependent variable that can be explained by the independent variables. When both the P value is higher than 0.05 and the R-squared value is very low, it can be reasonably concluded that there is no statistically significant relationship between the independent variables and the dependent variable. In addition, the independent variables do not explain a substantial proportion of the variance in the dependent variable. Since P value of ANOVA table of multiple regression is higher than 0.05 and the R Square value is very low, forming a predictive formula using the intercept and coefficients from the multiple regression is generally not valid for making accurate predictions.

## 4.1.3 Investigation of collinearity among independent variables

When Variance Inflation factor (VIF) revealed through coefficient table of regression related to independent variables (Annexure 2) is taken into consideration, it can be concluded that variance of regression coefficient is inflated due to multicollinearity is very low because value of VIF of each independent variable is less than 5. In addition to above, tolerance (proportion of variance in an independent variable that is not explained by the other independent variables) revealed through coefficient table of multiple regression of each independent variables are well above than 0.2 which also prove low multicollinearity among independent variables. Considering Variance Inflation Factor and Tolerance, it can be concluded that multicollinearity among independent variables is very low which do not considerably affect the relationship between independent variables and the Dependent variable.

## 4.2 Chapter Summary

Data presentation and analysis consists of analysis of the secondary data gathered from database of World Bank, annual reports of Central Bank of Sri Lanka and annual reports of Sri Lanka Tourism Development Authority. Considering above analysis, it can be concluded that that there is not a statistically significant relationship among fluctuation in US Dollar, fluctuation in Pound Sterling (GSP), fluctuation in Japan Yen, fluctuation in Indian Rupee (INR) and Inward or outward oriented policy implemented by Sri Lanka and Tourist arrivals by accepting all null hypothesis developed through conceptual framework in the previous chapter. As a result of the data analysis conducted above, the researcher will be paying sharp attention towards developing possible assumptions which will lead towards conclusions and recommendations of this research project by the end of the above discussion.

## **CHAPTER FIVE - CONCLUSION & RECOMMENDATION**

#### 5.1 Introduction

This is one of the most crucial chapters of the research study where the researcher will be attempting to draw conclusions to the analysis of findings while providing suitable recommendations which may be utilized by policy makers of Sri Lankan government that will enhance Tourism and Hospitality industry a better level in future to attract more tourists. Moreover, using the information developed in previous sections the researcher will construct conclusion and recommendation in a way that it ultimately achieves the desired objectives of this research study.

## 5.2 Conclusion

Based on the analysis of time series data from 1960 to 2023, it is clear that there is no statistically significant relationship between the exchange rate fluctuations under consideration (USD to LKR, GBP to LKR, JPY to LKR, INR to LKR) and the dependent variable (tourist arrivals to Sri Lanka). In addition, the dummy variables representing the economic policy changes in 1977 (representing inward-looking (pre-1977) and outward-looking (post-1977) economic policies) also did not show any significant impact on tourist arrivals.

These results suggest that fluctuations in the exchange rates of the mentioned currencies do not play a significant role in influencing the number of tourists visiting Sri Lanka. This may be attributed to several factors, such as the resilience of tourists' preferences, the dominance of other factors (geopolitical stability, marketing activities, tourism infrastructure, etc.) or the relative insensitivity of tourists to exchange rate fluctuations when choosing Sri Lanka as a destination.

## 5.3 Recommendation for Enhancing Sri Lanka's Tourism Sector

Considering the findings of the time series analysis, it is imperative for the Sri Lankan government and policymakers to diversify their marketing strategies. Traditional marketing efforts need to be complemented with innovative approaches to appeal to a wider audience. Highlighting Sri Lanka's unique cultural heritage, stunning natural beauty and diverse attractions can attract a diverse tourist demographic. Leveraging social media and digital marketing platforms can help create engaging content showcasing the country's offerings. Targeted campaigns in key source markets can help build a strong brand image and attract more tourists. Investment in tourism infrastructure is essential to enhance the overall tourist experience. This includes improving transport networks, accommodation and tourist facilities. Developing and maintaining tourist attractions in accordance with international standards ensures a pleasant and memorable experience for visitors. Providing quality services and facilities will enable Sri Lanka to attract repeat visitors and positive word of mouth, which are essential for the sustained growth of the tourism

#### sector.

Ensuring geopolitical stability and implementing robust security measures are essential to attracting and retaining tourists. The Sri Lankan government should prioritize tourist safety by implementing comprehensive security protocols and maintaining political stability. Promoting Sri Lanka as a safe travel destination through international travel advisories and partnerships with global travel agencies will help boost the confidence of potential travellers. A stable and safe environment is a key factor influencing tourists' decisions to visit the country.

Developing niche tourism segments can significantly increase tourist arrivals by catering to specific interests and preferences. Identifying and promoting areas such as ecotourism, adventure tourism, wellness tourism and cultural tourism can attract niche groups of tourists. Marketing efforts should focus on these unique segments and create special travel packages to offer them customized experiences. This approach will not only diversify the tourism portfolio but also attract sophisticated tourists who are willing to spend more money for a unique and personalized experience.

Improving visa policies and accessibility are essential to make Sri Lanka a more attractive travel destination. Simplifying visa procedures and offering visa on arrival or e-visa will make it easier for tourists to visit Sri Lanka. Furthermore, improving air connectivity through negotiations with airlines and increasing direct flights from major tourism source countries will increase accessibility. Easier access and streamlined entry procedures are likely to significantly increase tourist numbers.

To remain competitive in the international tourism market, it is important to stay on top of global tourism trends and adapt strategies accordingly. The Sri Lankan Government should regularly monitor global tourism trends and adapt its policies and strategies accordingly. Engaging with tourists and tourism industry stakeholders to gather feedback will help refine and improve tourism offerings. Flexibility and responsiveness to changing trends and preferences will ensure that Sri Lanka remains an attractive and competitive destination in the global tourism market. By focusing on these areas, the Sri Lankan government can better position the country as a premier tourist destination. These recommendations will help promote growth in the tourism sector regardless of exchange rate fluctuations and ensure the sustainable development of tourism in Sri Lanka.

#### 5.4 Summary

The above chapter carries a construction of conclusions which lead to recommendations adapted from the data analysis conducted in the previous chapter. In other words, data have been converted into information through this chapter and special emphasis was given by the researcher to draw conclusions making sure that they ultimately relate to the objectives of this research study.

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#### 6. Annexures

#### 6.1 Annexure 1

#### 1.1 Screenshots of Augmented Dickey Fuller (ADF) Test at original level forms I (0)

US Dollar in LKR

GBP (Pound Sterling) in LKR

Series: LKK_PEK_US	D Workfile: L	DATA SET 1960	J-202		ſ				
/iew Proc Object Proper	ties Print Nar	ne Freeze Sar	mple Genr Sh	eet Graph Stat	5	Series: LKR_PER_POUND_STE	RLING Workfile	DATA SET 19	60-2023
Augmented Dic	key-Fuller Ur	it Root Test	on LKR_PE	R_USD		View Proc Object Properties Prin	Name Freeze S	ample Genr St	neet Graph
Null Hypothesis: LKR	PER USD ha	s a unit root				Augmented Dickey-Fulle	r Unit Root Test	on LKR_PE	R_POUN
Exogenous: Constant, Lag Length: 0 (Automa	Linear Trend atic - based on	SIC, maxlag=	:10)			Null Hypothesis: LKR_PER_PC Exogenous: Constant, Linear Tr Lag Length: 0 (Automatic - base	UND_STERLING	i has a unit ro	ot
			t-Statistic	Prob.*		Eug Lengui. o (ratornate buse	d on oro, maxing	, 10)	
Augmented Dickey-Fu	ller test statist	c	2.637254	1.0000					t-Statisti
Fest critical values:	1% level		-4.110440			Augmented Dickey-Fuller test s	atistic		-1 07351
	5% level		-3.482763			Test critical values:	1% level		-4.11044
	10% level		-3.169372				5% level		-3.48276
MacKinnon (1996) on	e-sided p-valu	es.					10% level		-3.10937
						Macrannon (1990) one-sided p	-values.		
Method: Least Square: Date: 06/08/24 Time: Sample (adjusted): 19 Included observations:	20:52 61 2023 63 after adjus	tments				Augmented Dickey-Fuller Test I Dependent Variable: D(LKR_PE Method: Least Squares Date: 06/08/24 Time: 21:00 Sample (adjusted): 1961 2023 Include observations: 63 after	-quation R_POUND_STE	RLING)	
Variable	Coefficient	Std. Error	t-Statistic	Prob.		Variable	Coofficient	Std Error	t Stati
LKR_PER_USD(-1)	0.066425	0.025187	2.637254	0.0106		Variable	Coemcient	Std. Ell'O	t-Statis
C	0.478560	1.323354	0.361626	0.7189		LKR_PER_POUND_STERLING	G(0.087688	0.081683	-1.0735
@TREND(1960)	-0.028390	0.080949	-0.350718	0.7270		@TREND("1960")	-8.061106	0.406637	-1.133/
R-squared	0.446613	Mean deper	ident var	3.694732		Gincenb(1000)	0.110200	0.400001	1.1002
Adjusted R-squared	0.428166	S.D. depend	lent var	5.127479		R-squared	0.076044	Mean deper	ndent var
S.E. of regression	3.877383	Akaike into d	riterion	5.594646		Adjusted R-squared	0.045245	S.D. depend	dent var
Jog likelihood	172 2212	Hannan Oui	inn oritor	5.050700		Sum squared regid	23.03703	Schwarz or	itorion
E etatictic	24 21159	Durbin Mat	con ctat	1 007602		Log likelihood	287 1152	Hannan Ou	inn criter
Prob(E statistic)	0.000000	Durom-wat	SULLSIGE	1.001003		F-statistic	2 469068	Durbin-Wat	son stat
( obli oradotic)	0.000000					Prob/E statistic)	0.002227		Stat

#### List of Reference Japan Yen in LKR

#### Indian Rupee (INR) in LKR

Series: LKR_PER_JAPAN_YEN	Workfile: DAT	A SET 1960-2	2023::U 🗖 🗖	
View Proc Object Properties Print	Name Freeze	Sample Genr	Sheet Graph	Stats Ident
Augmented Dickey-Fulle	r Unit Root 1	est on LKR	PER_JAPAN	YEN
Null Hypothesis: LKR_PER_JAPA Exogenous: Constant, Linear Tree Lag Length: 10 (Automatic - base	AN_YEN has a nd d on SIC, ma>	i unit root dag=10)		
			t-Statistic	Prob.*
Augmented Dickey-Fuller test sta	tistic		-1.153236	0.9096
Test critical values:	1% level		-4.140858	20
	5% level		-3.496960	
	10% level		-3.177579	
Dependent Variable: D(LKR_PEF Method: Least Squares Date: 06/08/24 Time: 21:02 Sample (adjusted): 1971 2023 Included observations: 53 after ad	Ijustments	1)		
Variable	Coefficient	Std. Error	t-Statistic	Prob.
LKR_PER_JAPAN_YEN(-1)	-0.122193	0.105957	-1.153236	0.2557
D(LKR_PER_JAPAN_YEN(-1))	-0.147701	0.188986	-0.781543	0.4391
D(LKR_PER_JAPAN_YEN(-2))	-0.330806	0.237406	-1.393422	0.1712
D(LKR_PER_JAPAN_YEN(-3))	-0.717449	0.240353	-2.984982	0.0048
D(LKR_PER_JAPAN_YEN(-4))	-0.289261	0.271696	-1.064648	
D(LKR_PER_JAPAN_YEN(-5))	0 500070	0.050400	0 00 100 1	0.2934
	-0.566678	0.250198	-2.264924	0.2934
D(LKR_PER_JAPAN_TEN(-6))	-0.566678	0.250198	-2.264924 -1.943630	0.2934 0.0290 0.0590
D(LKR_PER_JAPAN_YEN(-6)) D(LKR_PER_JAPAN_YEN(-7))	-0.566678 -0.512829 -0.651294	0.250198 0.263851 0.272586 0.290755	-2.264924 -1.943630 -2.389314	0.2934 0.0290 0.0590 0.0217 0.1506
D(LKR_PER_JAPAN_YEN(-7)) D(LKR_PER_JAPAN_YEN(-7)) D(LKR_PER_JAPAN_YEN(-8))	-0.566678 -0.512829 -0.651294 -0.426075	0.250198 0.263851 0.272586 0.290755 0.201745	-2.264924 -1.943630 -2.389314 -1.465410 5.174424	0.2934 0.0290 0.0590 0.0217 0.1506
D(LKR_PER_JAPAN_TEN(-6)) D(LKR_PER_JAPAN_YEN(-7)) D(LKR_PER_JAPAN_YEN(-8)) D(LKR_PER_JAPAN_YEN(-8)) D(LKR_PER_JAPAN_YEN(-10))	-0.566678 -0.512829 -0.651294 -0.426075 -1.561360	0.250198 0.263851 0.272586 0.290755 0.301745 0.420027	-2.264924 -1.943630 -2.389314 -1.465410 -5.174434 2.462291	0.2934 0.0290 0.0590 0.0217 0.1506 0.0000 0.0196
D(LKR_PER_JAPAN_YEN(-5)) D(LKR_PER_JAPAN_YEN(-7)) D(LKR_PER_JAPAN_YEN(-8)) D(LKR_PER_JAPAN_YEN(-9)) D(LKR_PER_JAPAN_YEN(-10))	-0.566678 -0.512829 -0.651294 -0.426075 -1.561360 1.030511 -0.166525	0.250198 0.263851 0.272586 0.290755 0.301745 0.420037 0.084319	-2.264924 -1.943630 -2.389314 -1.465410 -5.174434 2.453381 -1.974944	0.2934 0.0290 0.0590 0.0217 0.1506 0.0000 0.0186 0.0552
D(LKR_PER_JAPAN_YEN(-7)) D(LKR_PER_JAPAN_YEN(-7)) D(LKR_PER_JAPAN_YEN(-8)) D(LKR_PER_JAPAN_YEN(-10)) D(LKR_PER_JAPAN_YEN(-10)) C C TREND("1960")	-0.566678 -0.512829 -0.651294 -0.426075 -1.561360 1.030511 -0.166525 0.010994	0.250198 0.263851 0.272586 0.290755 0.301745 0.420037 0.084319 0.004284	-2.264924 -1.943630 -2.389314 -1.465410 -5.174434 2.453381 -1.974944 2.566371	0.2934 0.0290 0.0590 0.0217 0.1506 0.0000 0.0186 0.0552 0.0141

Series: LKR_PER_INF	Workfile: D/	ATA SET 1960	-2023::U	
/iew Proc Object Proper	ties Print Nan	ne Freeze Sar	nole Genr She	eet Graph
Augmented D	ickey-Fuller L	Jnit Root Tes	t on LKR_P	ERINR
Null Hypothesis: LKP	PER INR bas	a unit root		
Exogenous: Constant	Linear Trend	a unit root		
Lag Length: 0 (Automa	tic - based on	SIC, maxlag=	10)	
			t-Statistic	Prob.*
Augmented Dickey-Fu	ller test statisti	c	-2 170931	0 4970
Test critical values:	1% level		-4.110440	
	5% level		-3.482763	
	10% level		-3.169372	
Augmented Dickey-Fu Dependent Variable: D Method: Least Squares	ller Test Equat (LKR_PER_IN s 21:00	iion IR)		
Augmented Dickey-Fu Dependent Variable: D Method: Least Squares Date: 06/08/24 Time: Sample (adjusted): 19 Included observations:	ller Test Equat (LKR_PER_IN 21:09 61 2023 63 after adjus	tments		
Augmented Dickey-Fu Dependent Variable: D Method: Least Squares Date: 06/08/24 Time: Sample (adjusted): 19 Included observations: Variable	ller Test Equat (LKR_PER_IN s 21:09 61 2023 63 after adjus Coefficient	tion IR) tments Std. Error	t-Statistic	Prob.
Augmented Dickey-Fu Dependent Variable: D Method: Least Squares Date: 06/08/24 Time: Sample (adjusted) 199 Included observations: Variable LKR_PER_INR(-1)	ller Test Equat (LKR_PER_IN 5 21:09 61 2023 63 after adjus Coefficient -0.182722	tion IR) trments Std. Error 0.084168	t-Statistic -2.170931	Prob.
Augmented Dickey-Fu Dependent Variable: D Method: Least Squares Date: 06/08/24 Time: Sample (adjusted): 19 Included observations: Variable LKR_PER_INR(-1) C	ller Test Equat (LKR_PER_IN 5 21:09 63 after adjus Coefficient -0.182722 0.133030	tments Std. Error 0.084168 0.101330	t-Statistic -2.170931 1.312840	Prob. 0.0339 0.1942
Augmented Dickey-Fu Dependent Variable: D Method: Least Square: Date: 06/08/24 Time: Sample (adjusted) 19/ Included observations: Variable LKR_PER_INR(-1) C @TREND("1960")	ller Test Equat (LKR_PER_IN \$ 21:09 63 after adjus Coefficient -0.182722 0.133030 0.007606	tments Std. Error 0.084168 0.101330 0.003322	t-Statistic -2.170931 1.312840 2.289336	Prob. 0.0339 0.1942 0.0256
Augmented Dickey-Fu Dependent Variable: D Method: Least Squares Date: 06/08/24 Time: Sample (adjusted): 19/ Included observations: Variable LKR_PER_INR(-1) @TREND("1960") R-squared	ller Test Equat (LKR_PER_IN \$21:09 51 2023 63 after adjus Coefficient -0.182722 0.133030 0.007606 0.085252	tments Std. Error 0.084168 0.101330 0.003322 Mean depen	t-Statistic -2.170931 1.312840 2.289336 ident var	Prob. 0.0339 0.1942 0.0256 0.046394
Augmented Dickey-Fu Dependent Variable: D Method: Least Square: Date: 06/08/24 Time: Sample (adjusted): 19 Included observations: Variable UKR_PER_INR(-1) C @TREND("1960") R-squared Adjusted R-squared	ler Test Equal (LLKR_PER_IN \$21:09 63 after adjus Coefficient -0.182722 0.133030 0.007606 0.085252 0.054760	ion IR) Std. Error 0.084168 0.101330 0.003322 Mean depen S.D. depend	t-Statistic -2.170931 1.312840 2.289336 ident var lent var	Prob. 0.0339 0.1942 0.0256 0.046394 0.302705
Augmented Dickey-Fu Dependent Variable: D Method: Least Squares Date: 06/08/24 Time: Sample (adjusted): 19i Included observations: Variable LKR_PER_INR(-1) @TREND("1960") R-squared Adjusted R-squared S.E. of regression	ller Test Equal (LKR_PER_IN 5 21:09 31 2023 63 after adjus Coefficient -0.182722 0.13303 0.007606 0.085252 0.054760 0.294300	tments Std. Error 0.084168 0.101330 0.003322 Mean depen S.D. depend Akaike info d	t-Statistic -2.170931 1.312840 2.289336 dent var Jent var riterion	Prob. 0.0339 0.1942 0.0256 0.046394 0.302705 0.438014
Augmented Dickey-Fu Dependent Variable: D Method: Least Squares Date: 06/08/24 Time: Sample (adjusted): 19 Included observations: Variable LKR_PER_INR(-1) C C R-squared Adjusted R-squared S.E. of regression Sum squared resid	ller Test Equat (LKR_PER_IN 5 5 21:09 63 after adjus 0 coefficient -0.182722 0.133030 0.007606 0.085252 0.054760 0.294300 5.196751	tments Std. Error 0.084168 0.101330 0.003322 Mean depend Akaike info o Schwarz cri Schwarz cri	t-Statistic -2.170931 1.312840 2.289336 ident var Jent var Irtlerion terion	Prob. 0.0339 0.1942 0.0256 0.046394 0.302705 0.438014 0.540068
Augmented Dickey-Fu Dependent Variable: D Method: Least Square: Date: 06/08/24 Time: Sample (adjusted): 19 Included observations: Variable LKR_PER_INR(-1) @ TREND("1960") R-squared Adjusted R-squared SE. of regression Sum squared resid Log likelihood	ller Test Equat (LKR_PER_IN 5 21:09 31 2023 63 after adjus Coefficient -0.182722 0.133030 0.007606 0.085252 0.0854760 0.294300 5.196751 -10.79744	tments Std. Error 0.084168 0.101330 0.003322 Mean depen S.D. depens Akaike info of Schwarz cfri Hannan-Qui	t-Statistic -2.170931 1.312840 2.289336 ident var enterion terion nn criter.	Prob. 0.0339 0.1942 0.0256 0.46394 0.302705 0.438014 0.540068 0.478152
Augmented Dickey-Fu Dependent Variable: D Method: Least Squares Date: 06/08/24 Time: Sample (adjusted): 19/ Included observations: Variable LKR_PER_INR(-1) @TREND("1960") R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic	ller Test Equat (LKR_PER_IN 5 21:09 63 after adjus Coefficient -0.182722 0.13030 0.007606 0.085252 0.064760 0.294300 5.196751 -10.79744 2.785920	tments tterents Std. Error 0.084168 0.101330 0.003322 Mean depen S.D. depen Akaike info o Schwarz cri Hannan-Qui Durbin-Wat	t-Statistic -2.170931 1.312840 2.289336 ident var riterion terion nn criter. son stat	Prob. 0.0339 0.1942 0.0256 0.046394 0.438014 0.438014 0.438014 0.478152 2.057029

Stats Ident

Prob.\*

Prob

## Dummy (Inward or Outward oriented Policy) Tourist Arrivals

Series: DUMMY W	orkfile: DATA (	SET 1960-202	3::Untitle		X	Series: TOURIST_ARRIVALS	Workfile: DA	TA SET 1960-	2023::U 🔽	
View Proc Object Prope	rties Print Nan	ne Freeze Sa	mple Genr Sh	eet Graph S	tats Ide	View Proc Object Properties Pri	nt Name Freez	e Sample Ge	enr Sheet Grap	h Stats Ide
Augmente	d Dickey-Full	er Unit Root	Test on DU	MMY		Augmented Dickey-F	uller Unit Ro	ot lest on l	OURIS I_AR	RIVALS
Null Hypothesis: DUM Exogenous: Constant Lag Length: 0 (Automa	MY has a unit r , Linear Trend atic - based on	oot SIC, maxlag=	=10)			Null Hypothesis: TOURIST_AR Exogenous: Constant, Linear T Lag Length: 10 (Automatic - ba	RIVALS has a frend sed on SIC, n	a unit root naxlag=10)		
			t-Statistic	Prob.*					t-Statistic	Prob.*
Augmented Dickey-Fu Test critical values:	Iller test statisti 1% level 5% level 10% level	с	-1.596569 -4.110440 -3.482763 -3.169372	0.7834		Augmented Dickey-Fuller test : Test critical values:	statistic 1% level 5% level 10% level		4.089356 -4.140858 -3.496960 -3.177579	1.0000
*MacKinnon (1996) or Augmented Dickey-Fu Dependent Variable: D Method: Least Square Date: 06/08/24 Time: Sample (adjusted): 19 Included dependitude	ne-sided p-valu uller Test Equat D(DUMMY) s : 21:11 161 2023 : 62 after adjus	es. ion				Augmented Dickey-Fuller Test Dependent Variable: D(TOURI Method: Least Squares Date: 06/08/24 Time: 21:22 Sample (adjusted): 1971 2023 Included observations: 53 after	Equation ST_ARRIVALS adjustments	5)		
	. oo arter adjus					Variable	Coefficient	Std. Error	t-Statistic	Prob.
UMMY(-1) C @TREND("1960")	-0.088417 0.050368 0.000939	Std. Error 0.055379 0.032609 0.001352	t-Statistic -1.596569 1.544598 0.694970	Prob. 0.1156 0.1277 0.4898		TOURIST_ARRIVALS(-1) D(TOURIST_ARRIVALS(-1)) D(TOURIST_ARRIVALS(-2)) D(TOURIST_ARRIVALS(-3)) D(TOURIST_ARRIVALS(-4))	1.375855 -0.839492 -2.063987 -0.905901 -2.454247	0.336448 0.379127 0.316391 0.351980 0.519641	4.089356 -2.214277 -6.523536 -2.573727 -4.722969	0.0002 0.0326 0.0000 0.0139 0.0000
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.051280 0.019656 0.124744 0.933661 43.27784 1.621560 0.206129	Mean deper S.D. depen Akaike info Schwarz cr Hannan-Qu Durbin-Wat	ndent var dent var criterion iterion inn criter. son stat	0.015873 0.125988 -1.278662 -1.176608 -1.238523 1.960962		D(TOURIST_ARRIVALS(-5)) D(TOURIST_ARRIVALS(-6)) D(TOURIST_ARRIVALS(-7)) D(TOURIST_ARRIVALS(-9)) D(TOURIST_ARRIVALS(-9)) D(TOURIST_ARRIVALS(-10)) C @TREND("1960")	-1.237419 -2.101437 -1.842996 -0.875748 -2.370160 -2.187272 140133.9 -9952.342	0.601624 0.531990 0.585017 0.549888 0.501183 0.621290 84452.65 4344.326	-2.056799 -3.950144 -3.150330 -1.592595 -4.729133 -3.520536 1.659319 -2.290883	0.0463 0.0003 0.0031 0.1191 0.0000 0.0011 0.1049 0.0273

#### 1.2 Screenshots of Augmented Dickey Fuller (ADF) Test at the first difference I (I)

#### USD in LKR

Series: LKR_PER_USD	workfile: DA	A 3LT 1900-2		
/iew Proc Object Propertie	s Print Name	Freeze Samp	le Genr Sheet	Graph Stats
Augmented Dickey	-Fuller Unit R	oot Test on	D(LKR_PER	_USD,2)
Null Hypothesis: D(LKR Exogenous: Constant, Li Lag Length: 1 (Automatic	PER_USD,2) near Trend : - based on SI	has a unit roo C, maxlag=10	t ))	
			t-Statistic	Prob.*
Augmented Dickey-Fulle	r test statistic		-13.36322	0.0000
Test critical values:	1% level 5% level 10% <mark>l</mark> evel		-4.118444 -3.486509 -3.171541	
*Mackinnon (1006) ono (	sided p values			
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 _ Time: 20	r Test Equation KR_PER_USI	n D,3)		
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 2/ Sample (adjusted): 1964 Included observations: 6	r Test Equation KR_PER_USI 0:46 2023 0 after adjustm	n D,3) nents		
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 2( Sample (adjusted): 1964 Included observations: 6( Variable	r Test Equation KR_PER_USI 0:46 2023 D after adjustm Coefficient	n D,3) nents Std. Error	t-Statistic	Prob.
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 2( Sample (adjusted): 1964 Included observations: 6( Variable D(LKR_PER_USD(-1),2	r Test Equation KR_PER_USI 0:46 2023 0 after adjustm Coefficient ) -2.498984	n D,3) nents Std. Error 0.187005	t-Statistic -13.36322	Prob.
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 2( Sample (adjusted): 1964 Included observations: 6( Variable D(LKR_PER_USD(-1),2 D(LKR_PER_USD(-1),3)	r Test Equation KR_PER_USI 0:46 2023 0 after adjustm Coefficient ) -2.498984 ) 0.671735	n D,3) eents Std. Error 0.187005 0.112634	t-Statistic -13.36322 5.963865	Prob. 0.0000 0.0000
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 24 Sample (adjusted): 1964 Included observations: 64 Variable D(LKR_PER_USD(-1),2 C D(LKR_PER_USD(-1),3) C	r Test Equation KR_PER_USI 0:46 2023 0 after adjustm Coefficient ) -2.498984 0.671735 -0.693937	n D,3) Std. Error 0.187005 0.112634 1.041105 0.072826	t-Statistic -13.36322 5.963865 -0.666538	Prob. 0.0000 0.5078 0.1377
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 20 Sample (adjusted): 1960 Included observations: 60 Variable D(LKR_PER_USD(-1),2 D(LKR_PER_USD(-1),3) C @TREND("1960")	r Test Equation KR_PER_USI 2023 D after adjustm Coefficient ) -2.498984 0.671735 -0.693937 0.041905	n D,3) Std. Error 0.187005 0.112634 1.041105 0.027826	t-Statistic -13.36322 5.963865 -0.666538 1.505952	Prob. 0.0000 0.5078 0.1377
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 2( Sample (adjusted): 1964 Included observations: 6( Variable D(LKR_PER_USD(-1),2 D(LKR_PER_USD(-1),3 C @TREND("1960") R-squared	r Test Equation KR_PER_USI 2023 D after adjustm Coefficient ) -2.498984 0.671735 -0.693937 0.041905 0.841343	n D,3) Std. Error 0.187005 0.112634 1.041105 0.027826 Mean deper	t-Statistic -13.36322 5.963865 -0.666538 1.505952 ident var	Prob. 0.0000 0.5078 0.1377 -0.211500
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 20 Sample (adjusted): 1964 Included observations: 60 Variable D(LKR_PER_USD(-1),2 D(LKR_PER_USD(-1),3 C @TREND("1960") R-squared Adjusted R-squared	r Test Equation KR_PER_USI 2023 D after adjustm Coefficient ) -2.498984 ) 0.671735 -0.693937 0.041905 0.841343 0.832843	n D,3) Std. Error 0.187005 0.112634 1.041105 0.027826 Mean depen S.D. depend	t-Statistic -13.36322 5.963865 -0.666538 1.505952 ident var dent var	Prob. 0.0000 0.5078 0.1377 -0.211500 9.034695
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 20 Sample (adjusted): 1084 Included observations: 60 Variable D(LKR_PER_USD(-1),2 C @TREND("1960") R-squared Adjusted R-squared S.E. of regression	r Test Equation KR_PER_USI 2023 D after adjustm Coefficient ) -2.498984 ) 0.671735 -0.693937 0.041905 0.841343 0.832843 3.693815	n D,3) Std. Error 0.187005 0.112634 1.041105 0.027826 Mean deper S.D. depend Akaike info d	t-Statistic -13.36322 5.963865 -0.666538 1.505952 adent var ent var criterion	Prob. 0.0000 0.5078 0.1377 -0.211500 9.034695 5.515537
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 2( Sample (adjusted): 1964 Included observations: 6( Variable D(LKR_PER_USD(-1),2 D(LKR_PER_USD(-1),2 D(LKR_PER_USD(-1),3 C @TREND("1960") R-squared Adjusted R-squared S.E. of regression Sum squared resid	r Test Equation KR_PER_USI 2023 D after adjustm Coefficient ) -2.498984 0.671735 -0.693937 0.041905 0.841343 0.832843 3.693815 764.0790	n D,3) Std. Error 0.187005 0.112634 1.041105 0.027826 Mean deper S.D. depenn Akaike info o Schwarz cr	t-Statistic -13.36322 5.963865 -0.666538 1.505952 ident var gent var criterion iterion	Prob. 0.0000 0.5078 0.1377 -0.211500 9.034695 5.515537 5.55557 5.655160
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 2( Sample (adjusted): 1964 Included observations: 6( Variable D(LKR_PER_USD(-1),2 D(LKR_PER_USD(-1),3 C @TREND("1960") R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood	r Test Equation KR_PER_USI 2023 D after adjustm Coefficient ) -2.498984 ) 0.671735 -0.693937 0.041905 0.841343 0.832843 3.693815 764.0790 -161.4661	n D,3) Std. Error 0.187005 0.112634 1.041103 0.027826 Mean depen S.D. depend Akaike info Schwarz cr Hannan-Qu	t-Statistic -13.36322 5.963865 -0.666538 1.505952 ident var dent var dent var dent var titerion iterion inn criter.	Prob. 0.0000 0.5078 0.1377 -0.211500 9.034695 5.515537 5.655160 5.570151
Augmented Dickey-Fulle Dependent Variable: D(L Method: Least Squares Date: 06/08/24 Time: 20 Sample (adjusted): 1084 Included observations: 6/ Variable D(LKR_PER_USD(-1),2 D(LKR_PER_USD(-1),3) @TREND("1960") R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic	r Test Equation KR_PER_USI 0:46 2023 0 after adjustm Coefficient 0 -2.498984 0 .671735 -0.693937 0.041905 0.841343 3.693815 764.0790 -161.4661 98.98754	n D,3) Std. Error 0.187005 0.112634 1.041105 0.027826 Mean deper S.D. depend Akaike info o Schwarz cr Hannan-Qu Durbin-Wat	t-Statistic -13.36322 5.963865 -0.666538 1.505952 ident var criterion inn criter. son stat	Prob. 0.0000 0.5078 0.1377 -0.211500 9.034695 5.515537 5.655160 5.570151 2.016198

## GBP (Pound Sterling) in LKR

Series: LKR_PER_POUND_STERLING	Workfile: DA	TA SET 1960	-2023:	
View Proc Object Properties Print Name	Freeze Samp	le Genr Shee	Graph Stats	Ident
Augmented Dickey-Fuller Unit Ro	oot Test on I	D(LKR_PER	POUND_ST	FERLING)
Null Hypothesis: D(LKR_PER_POUND Exogenous: Constant, Linear Trend Lag Length: 0 (Automatic - based on SIC	_STERLING) C, maxlag=10	has a unit ro I)	ot	
			t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic			-8.419870	0.0000
Test critical values:	1% level		-4.113017	
	5% level		-3.483970	
	10% level		-3.170071	
macramion (1000) one-sided p-values.				
Augmented Dickey-Fuller Test Equation Dependent Variable: D(LKR_PER_POU Method: Least Squares Date: 06/08/24 Time: 20:58 Sample (adjusted): 1962 2023 Included observations: 62 after adjustme	IND_STERLI	NG,2)		
Augmented Dickey-Fuller Test Equation Dependent Variable: D(LKR_PER_POU Method: Least Squares Date: 06/08/24 Time: 20:58 Sample (adjusted): 1962 2023 Included observations: 62 after adjustme Variable	ND_STERLII ents Coefficient	NG,2) Std. Error	t-Statistic	Prob.
Augmented Dickey-Fuller Test Equation Dependent Variable: D(LKR_PER_POU Method: Least Squares Date: 06/08/24 Time: 20:58 Sample (adjusted): 1962 2023 Included observations: 62 after adjustme Variable D(LKR_PER_POUND_STERLING(-1))	ND_STERLII ents Coefficient -1.152925	NG,2) Std. Error 0.136929	t-Statistic -8.419870	Prob.
Augmented Dickey-Fuller Test Equation Dependent Variable: D(LKR_PER_POU Method: Least Squares Date: 06/08/24 Time: 20:58 Sample (adjusted): 1962 2023 Included observations: 62 after adjustme Variable D(LKR_PER_POUND_STERLING(-1)) C	ND_STERLII ents Coefficient -1.152925 -5.255081	NG,2) Std. Error 0.136929 6.331552	t-Statistic -8.419870 -0.829983	Prob. 0.0000 0.4099
Augmented Dickey-Fuller Test Equation Dependent Variable: D(LKR_PER_POU Method: Least Squares Date: 06/08/24 Time: 20:58 Sample (adjusted): 1962 2023 Included observations: 62 after adjustme Variable D(LKR_PER_POUND_STERLING(-1)) C @TREND("1960")	ND_STERLII ents Coefficient -1.152925 -5.255081 0.387976	NG,2) Std. Error 0.136929 6.331552 0.178270	t-Statistic -8.419870 -0.829983 2.176341	Prob. 0.0000 0.4099 0.0335

#### Japan Yen in LKR

#### Series: LKR\_PER\_JAPAN\_YEN Workfile: DATA SET 1960-2023::Unt.. View Proc Object Properties Print Name Freeze Sample Genr Sheet Graph Stats Ident Augmented Dickey-Fuller Unit Root Test on D(LKR\_PER\_JAPAN\_YEN) Null Hypothesis: D(LKR\_PER\_JAPAN\_YEN) has a unit root Exogenous: Constant, Linear Trend Lag Length: 10 (Automatic - based on SIC, maxlag=10) t-Statistic Prob.\* Augmented Dickey-Fuller test statistic Test critical values: 1% level -4.900311 -4.144584 0.0011 5% level -3.498692 10% level -3.178578 \*MacKinnon (1996) one-sided p-values. Augmented Dickey-Fuller Test Equation Dependent Variable: OL(KR\_PER\_JAPAN\_YEN,2) Dependent Variable: OL(KR\_PER\_JAPAN\_YEN,2) Method: Least Squares Date: 06/08/24 Time: 21:05 Sample (adjusted): 1972 2023 Included observations: 52 after adjustments Variable Coefficient Std. Error t-Statistic Prob.

D(I KR PER JAPAN YEN(-1))	-8 370144	1 708084	-4 900311	0 0000
D(LKR PER JAPAN YEN(-1),2)	7.187744	1.642386	4.376402	0.0001
D(LKR PER JAPAN YEN(-2),2)	6.824055	1.596744	4.273731	0.0001
D(LKR PER JAPAN YEN(-3),2)	6.216180	1.539272	4.038391	0.0002
D(LKR PER JAPAN YEN(-4),2)	5.869322	1,403072	4,183192	0.0002
D(LKR PER JAPAN YEN(-5),2)	4,938005	1.249715	3,951304	0.0003
D(LKR PER JAPAN YEN(-6),2)	4.253035	1.111756	3.825512	0.0005
D(LKR PER JAPAN YEN(-7),2)	3.378759	0.949548	3.558283	0.0010
D(LKR PER JAPAN YEN(-8),2)	2.777845	0.827795	3.355715	0.0018
D(LKR PER JAPAN YEN(-9),2)	0.934752	0.667942	1.399450	0.1696
D(LKR PER JAPAN YEN(-10).2)	1.675369	0.465143	3.601832	0.0009
,	-0.168565	0.047926	-3.517181	0.0011
@TREND("1960")	0.011214	0.002317	4 840443	0 0000

#### Dummy (Inward or Outward oriented Policy)

Series: DUMMY W	orkfile: DATA S	SET 1960-202	3::Untit 🗲		3
View Proc Object Proper	ties Print Nan	ne Freeze Sa	mple Genr Sh	eet Graph Stat	sI
Augmented I	Dickey-Fuller	Unit Root Te	est on D(DU	MMY)	-
Null Hypothesis: D(DU Exogenous: Constant, Lag Length: 0 (Automa	MMY) has a ur Linear Trend tic - based on	nit root SIC, maxlag=	:10)		
2 5			t-Statistic	Prob.*	L
Augmented Dickey-Ful Test critical values:	ller test statisti 1% level 5% level 10% level	с	-7.907055 -4.113017 -3.483970 -3.170071	0.0000	
Augmented Dickey-Ful Dependent Variable: D Method: Least Squares Date: 06/08/24 Time: Sample (adjusted): 196 Included observations:	ller Test Equat (DUMMY,2) s 21:14 52 2023 62 after adjus	ion tments			
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
D(DUMMY(-1)) C @TREND("1960")	-1.028202 0.042624 -0.000801	0.130036 0.034173 0.000915	-7.907055 1.247295 -0.875322	0.0000 0.2172 0.3849	
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.514502 0.498044 0.128287 0.970997 40.87937 31.26229 0.000000	Mean deper S.D. depend Akaike info d Schwarz cr Hannan-Qu Durbin-Wat	dent var dent var criterion iterion inn criter. son stat	0.000000 0.181071 -1.221915 -1.118989 -1.181504 2.003329	

#### Indian Rupee (INR) in LKR

Series: LKR\_PER\_INR Workfile: DATA SET 1960-2023::U... 👝 🔲 🔀 View Proc Object Properties Print Name Freeze Sample Genr Sheet Graph Stats Ide Augmented Dickey-Fuller Unit Root Test on D(LKR\_PER\_INR)

Null Hypothesis: D(LKR\_PER\_INR) has a unit root Exogenous: Constant, Linear Trend Lag Length: 0 (Automatic - based on SIC, maxlag=10)

		t-Statistic	Prob.*
Augmented Dickey-Fu	Iller test statistic	-8.991679	0.0000
Test critical values:	1% level	-4.113017	
	5% level	-3.483970	
	10% level	-3.170071	

\*MacKinnon (1996) one-sided p-values.

Augmented Dickey-Fuller Test Equation Dependent Variable: D(LKR\_PER\_INR,2) Method: Least Squares Date: 06/08/24 Time: 21:07 Sample (adjusted): 1962 2023 Included observations: 62 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(LKR PER INR(-1))	-1.222212	0.135927	-8.991679	0.0000
/	-0.025672	0.079611	-0.322472	0.7482
@TREND("1960")	0.002640	0.002183	1.209301	0.2314
R-squared	0.579152	Mean depen	ident var	-0.011236
Adjusted R-squared	0.564885	S.D. depend	dent var	0.457016
S.E. of regression	0.301462	Akaike info o	riterion	0.486834
Sum squared resid	5.361895	Schwarz cri	terion	0.589760
Log likelihood	-12.09187	Hannan-Qui	nn criter.	0.527246
F-statistic	40.59648	Durbin-Wat	son stat	1.950266
Prob(F-statistic)	0.000000			

#### **Tourist Arrivals**

Series: DUMMY W	orkfile: DATA S	SET 1960-20	23::Untit 🗲	
View Proc Object Prope	rties Print Nan	ne Freeze S	ample Genr Sh	eet Graph St
	tatu tu			
Null Hypothesis: D(DU Exogenous: Constant, Lag Length: 0 (Automa	MMY) has a ur Linear Trend atic - based on	nit root SIC, maxlag	j=10)	
			t-Statistic	Prob.*
Augmented Dickey-Fu	ller test statisti	с	-7.907055	0.0000
Test critical values:	1% level	k3.	-4.113017	Constant and a
	5% level		-3.483970	
	10% level		-3.170071	
Date: 06/08/24 Time: Sample (adjusted): 19 Included observation	21:14 61- 2023 63 after adjus	stments Std. Error	t-Statistic	Prob.
	4 000000	0.400000	7.007055	0.0000
	-1.028202	0.130030	-7.907055	0.0000
@TREND("1960")	-0.000801	0.000915	-0.875322	0.3849
R-squared	0.514502	Mean depe	endent var	0 000000
Adjusted R-squared	0.498044	S.D. deper	ndent var	0.181071
S.E. of regression	0.128287	Akaike info	criterion	-1.221915
Sum squared resid	0.970997	Schwarz o	riterion	4 440000
Log likelihood		Schwarz criterion		-1.118989
	40.87937	Hannan-Q	uinn criter.	-1.118989
F-statistic	40.87937 31.26229	Hannan-Q Durbin-Wa	uinn criter. atson stat	-1.18989 -1.181504 2.003329

#### 6.2 Annexure 2 – Output of Multiple Regression generated from SPSS

## Variables Entered/Removed

Model	Variables Entered	Variables Removed	Method
1	FirstDifferenceD ummyEconomyP olicy, FirstDifferenceI NRinLKR, FirstDifferenceU SDinLKR, FirstDifferenceJa panYeninLKR, FirstDifferenceP oundSterlinginLK R <sup>a</sup>		Enter

a. All requested variables entered.

b. Dependent Variable: FirstDifferenceTouristArrivals

#### Model Summary

			Adjusted R	Std. Error of the
Model	R	R Square	Square	Estimate
1	<u>.212ª</u>	<u>.045</u>	039	245007.851

a. Predictors: (Constant), FirstDifferenceDummyEconomyPolicy, FirstDifferenceINRinLKR, FirstDifferenceUSDinLKR,

 $\label{eq:FirstDifferenceJapanYeninLKR, FirstDifferencePoundSterlinginLKR$ 

#### ANOVA<sup>b</sup>

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1.613E11	5	3.226E10	.537	<u>.747ª</u>
	Residual	3.422E12	57	6.003E10		
	Total	3.583E12	62			

a. Predictors: (Constant), FirstDifferenceDummyEconomyPolicy, FirstDifferenceINRinLKR, FirstDifferenceUSDinLKR, FirstDifferenceJapanYeninLKR, FirstDifferencePoundSterlinginLKR

b. Dependent Variable: FirstDifferenceTouristArrivals

		Unstandardized Coefficients		Standardized Coefficients			Collinearity Statistics	
Model		В	Std. Error	Beta	t	<u>Sig.</u>	Tolerance	VIF
1	(Constant)	30965.688	40104.1 24		.772	.443		
	FirstDifferenceUSDinL KR	-2426.250	7589.84 6	044	320	<u>.750</u>	<u>.869</u>	<u>1.151</u>
	FirstDifferencePound SterlinginLKR	2871.736	2876.54 5	.289	.998	<u>.322</u>	<u>.300</u>	<u>4.001</u>
	FirstDifferenceJapanY eninLKR	-539752.806	365327. 739	335	-1.477	<u>.145</u>	<u>.327</u>	<u>3.060</u>
	FirstDifferenceINRinL KR	64830.226	210179. 748	.082	.308	<u>.759</u>	<u>.239</u>	<u>4.182</u>
	FirstDifferenceDumm yEconomyPolicy	-25429.918	248672. 551	013	102	<u>.919</u>	<u>.986</u>	<u>1.014</u>

a. Dependent Variable: FirstDifferenceTouristArrivals



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