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## IMPACT OF STOCK MARKET DEVELOPMENT ON ECONOMIC GROWTH: AN EVIDENCE FROM SAARC COUNTRIES

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### ABSTRACT

The benefit of stock market development for the economy is irreversible issue in modern economic theory. The paper empirically makes an attempt to estimate the impact of stock market development on economic growth in SAARC region by using the two dynamic panel models for the period of 1980 to 2008. The first model tries to assess the stock market effect directly after controlling for other variables where as the second one does it by having its influence through investment. The study finds out that none of the dynamic model is effective one to identify the stock market linkage to per capita growth rate in SAARC region. This implies that stock market size, activity and liquidity do not have any influence on the real economic activity in the region. The results did not lead support to empirical studies of Levive (1991), Levine & Zervos (1996, 1998); Islam (1998) as well as other studies and theory that stock market has direct association with per capita growth rate. The main reasons are identified that fund mobilised by stock market in the region is still in transitional period and it is very small relative to its economy.

### KEYWORDS

Economic growth, stock market development, turnover ratio, financial liberalization, dynamic panel model etc.

### 1.1 BACKGROUND OF THE STUDY

The deepening and level of sophistication of modern financial markets is arguably a recent phenomenon. Since the 1980s the irreversible process of financial reforms, financial globalisation, and the deregulation of the financial systems have been throwing up daunting challenging for developing countries. The very common ways of meeting these challenges are to overcome these apprehensions, to promote structural improvements to markets and to speedily move towards the development of regional stock markets.

The development of equity markets provides a more diversified set of channels (in channeling the limited resources from surplus units to deficit units) for financial intermediation to support growth, thus bolstering financial stability of economy. The most important measure taken in this regard by many Asian countries in general and South Asian (SAARC) countries in particular by the opening of their respective stock markets to international investors' i.e, liberalised their stock markets in the early 90s. It is noted that the growth in developing markets is evident from the fact that from 1985 to 1995, the period of stock market liberalization in many developing countries, the market capitalization of all developing markets increased by 1,007 percent compared to an increase of 253 percent in the case of developed markets. As a result, the share of developing markets in the world market capitalization increased from 4 percent in 1985 to 11 percent in 1995. The trend of stock market growth continues more positively beyond 1995 for each of the market segment described above.

The growth of South Asian stock market can be gauged by comparing their markets with the growth of developing and World stock markets. The table 1 below illustrates this significant role of the SAARC countries.

**TABLE 1.1: ROLE OF SAARC STOCK MARKETS**

| Countries  | Market Established | Market Liberalise | Market Capitalisation % of GDP |      |      | Value Traded % of GDP |      |      |
|------------|--------------------|-------------------|--------------------------------|------|------|-----------------------|------|------|
|            |                    |                   | 1990                           | 2006 | 2008 | 1990                  | 2006 | 2008 |
| Bangladesh | 1954               | 1991              | 1.1                            | 5.8  | 8.4  | 0.0                   | 1.5  | 11.6 |
| India      | 1875               | 1992              | 12.2                           | 86.1 | 53.2 | 6.9                   | 67.1 | 86.5 |
| Pakistan   | 1947               | 1990              | 7.1                            | 35.7 | 14.3 | 0.6                   | 99.3 | 33.2 |
| SriLanka   | 1896               | 1991              | 11.4                           | 27.5 | 10.6 | 0.5                   | 27.5 | 2.5  |

Source: World Development Indicators

It can be observed from the above analysis that the SAARC region has a long and varying history in equity markets. India and Sri Lanka have more than 100 years old markets whereas in Bangladesh and Pakistan the markets came into existence about 50 years ago. Although the South Asian equity markets have different history in terms of establishment, all these markets underwent for liberalisation at the same time, that is, in early 90s (meaning that equity markets in this region have been opened for the foreign investors since 1990). In 1990 the market capitalization in South Asia is 10.8 percent compared to World rate of 47.8 percent where only India represents 12.2 percent followed by Sri Lanka 11.4 percent and Pakistan 7.1 percent. In 2006 this ratio has increased for all the South Asian equity markets significantly, i.e the stock market in relation to GDP has, on an average, increased by 450 percent over the almost past two decades.

On the other hand, the value traded as percent of gross domestic product, which is a reflection of economy wide liquidity of the country, was below 1 percent for each country except for India in 1990. In 2006, this value traded ratio has become on average above 40 percent in region, an increase of 3900 percent over the past 16 years period. This reflects the fact that how stock market got its momentum in the region as a whole and has been the focal point of financial market policy making.

The following table makes an attempt to explain how the stock market in the South Asia region changes significantly at the end of most recent year 2010 in relation to other regions of the world.

**TABLE 1.2: COMPARISON OF MARKET CAPITALISATION IN PERCENT OF GDP**

|                         | Market Capitalisation percentage of GDP |
|-------------------------|---|
| Latin America           | 57.7%                                   |
| East Asia & Pacific     | 80.4%                                   |
| OECD Members            | 90.4%                                   |
| Middle East             | 37.8%                                   |
| European Union          | 64.7%                                   |
| Europe and Central Asia | 51.9%                                   |
| South Asia              | 83.4%                                   |
| World                   | 90.4%                                   |

Source: World Development Indicators

The above data statistics explicitly state the fact that although South Asian stock market is relatively small compared to stock markets of other regions, it has been able to attract investors towards the capital market which is unexpectedly in line with the world top rated stock market performances. The interesting

outcome is that the market capitalization of South Asia in percent of GDP is higher than the stock market of Middle East, Latin America, East Asia even the European Union and almost parallel to the world market. This gives an indication that how the stock market in this part opens the avenues for policy makers to pay more attention on the stock market to channelize the funds in the economy.

**1.2 THE OBJECTIVE OF THE STUDY**

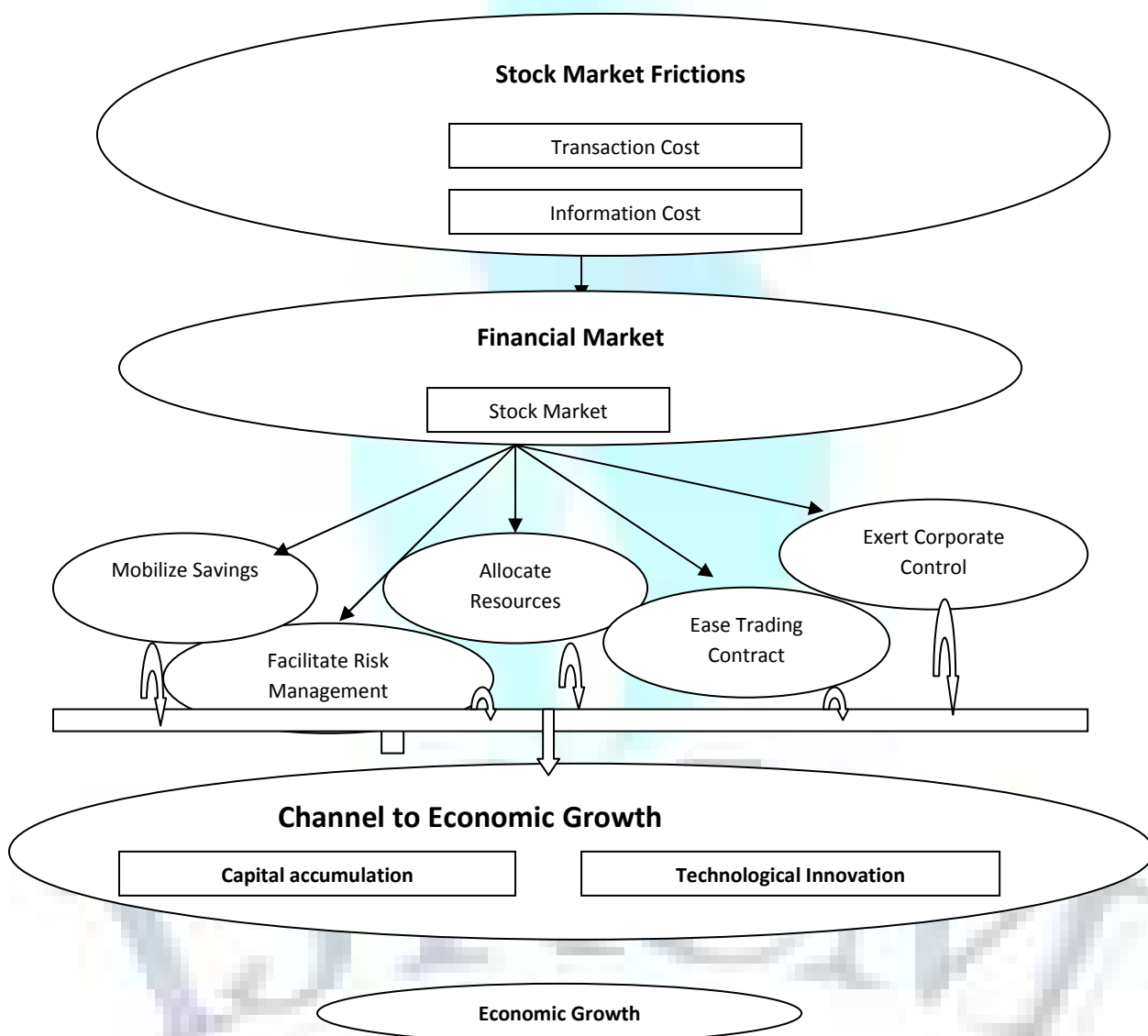
The linkage between stock market and economic growth has occupied a central position in the development literature (see Samuel, 1996; Demircug-Kunt and Levine, 1996; Akinifesi, 1987; Levine and Zervos, 1996). The study attempts to investigate the impact of stock market development on economic growth for SAARC Region as a whole. The study also tries to ascertain the impact of stock market development on economic growth for each of the SAARC member countries.

**2. THEORETICAL FRAMEWORK**

The functional approach of Levine (1997) provides a useful framework to think about the role of stock market. Stock markets allow for more efficient financing of private and public investment projects. By representing ownership of large-value, indivisible physical assets by easily trade able and divisible financial assets, and making trade in them more liquid, they promote the efficient allocation of capital. They give lenders the opportunity to diversify their investments. In these roles, stock markets increase the quality and quantity of intermediated funds.

The following diagram demonstrates, in essence, how the stock market- in presence of market frictions (transaction cost and information cost) performing its different functions affects the economic growth in terms of capital accumulation and technological innovation.

**FIGURE 2.1: THEORETICAL FRAMEWORK OF STOCK MARKET DEVELOPMENT ON ECONOMIC GROWTH**



**3. LITERATURE REVIEW**

In recent times there was a growing concern of the role of stock market on economic growth. The stock market, in today’s liberalized open market arena, is the center focus of the researchers and policy makers because of the perceived benefits it provides for the economy. The stock market provides the fulcrum for capital market activities and it is often cited as a barometer of business direction. An active stock market may be relied upon to measure changes in the general economic activities using the stock market index.

Jensen and Murphy (1990) argue that in well development stock markets tying managers’ compensation to stocks is an inventive compatible design that aligns the interests of principals (owners) and agents (managers) thereby spurring efficient resource allocation and economic growth. Thornton (1995) analyzes 22 developing economies with mixed results although for some countries there was evidence that financial deepening promoted growth. Luitel and Khan (1999) study 10 developing economies and find bi-directional causality between financial development development particularly stock market and economic growth in all the sample countries.



Levine and Zervos (1998) who are among the first to ask whether stock markets are merely burgeoning casinos or a key to economic growth and to examine this issue empirically finding a positive and significant correlation between stock market development and long-run growth.

Barro(1991) and Barro-I-Martin(1995) explore the ability of a large number of macroeconomic and demographic variables to explain the cross-sectional characteristics of economic growth rates. Rodrick (1999) examines the relation between openness to trade and economic growth with standard cross-country regression methodology. With a proxy for the general openness to trade, the evidence suggests that the relation between economic growth and openness is statistically weak.

Levine and Zervos (1998) found that stock market liquidity and banking development for 47 countries from 1976-1993, had a positive effect on economic growth, capital accumulation and productivity even after controlling for various other important factors such as fiscal policy, openness to trade, education and political stability. Singh and weisse (1998) recently examined stock market development and capital flows for less developed countries.

Arestis, Demetriades and Luintel (2001) use data for Germany, the US, Japan, France and UK but their sample only spans the last 25 years. The evidence for stock market led growth is mixed across countries may be due to the short sample. Rousseau and Sylla (2005) focus instead on the early stages of economic growth in the US (1790-15-850). They convincingly argue that stock market development had significant impact on business incorporations and investment.

Bencivenga, et. Al. (1996) and Levine (1991) have argued that stock market liquidity plays a key role in economic growth. Although profitable investments require long-run commitment to capital, savers prefer not to relinquish control of their savings for long periods. The finding is that liquidity led to increase investor incentives to acquire information on firms and improve corporate governance, thereby facilitating growth.

**4.1 RESEARCH METHODOLOGY**

The study attempts to examine the impact of stock market development on economic growth for four South Asian countries: Bangladesh, India, Pakistan, and Sri Lanka over the sample period of 1980-2005. To investigate the stock market impact, dynamic panel data approach is to be considered for the study. Two alternative models for estimating the long-run effects of stock markets development on economic growth will be used in this regard.

**MODEL ONE (DIRECT EFFECT OF STOCK MARKET ON GROWTH RATE)**

This model examines the relationship between stock market development and economic growth directly, rather than through investment behavior. Thus, the level of investments is used as a control variable. Since we focus on growth, the model is in the form of a dynamic panel estimate of growth following such works as Islam (1995) and Lee, Pesaran, and Smith (1997), as follows:

$$\begin{aligned}
 \text{Growth}_{it} = & \alpha_i + \gamma_t + \rho \text{Growth}_{it-1} + \\
 & \theta_1(\text{MCR}_{it}) + \theta_2(\text{STR}_{it}) + \theta_3(\text{TR}_{it}) + \\
 & \phi_1(\text{INV}_{it}) + \phi_2(\text{FDI}_{it}) + \phi_3(\text{SE}_{it}) + \phi_4(\text{OR}_{it}) + \phi_5(\text{PC}_{it}) + \varepsilon_{it}
 \end{aligned}
 \tag{.....4.1}$$

**MODEL TWO (INDIRECT EFFECT OF STOCK MARKET ON GROWTH RATE)**

This model is a two-stage test of the hypothesis of whether the stock market affects economic growth. This is motivated by the well known theoretical study of Levine<sup>1</sup>(1991) who proposes that investing in the stock market alleviates both the liquidity shock and the productivity shock that firms would otherwise face. Firms not facing liquidity shocks will have a higher level of investment leading to a higher growth rate.

In order to test the above theoretical hypothesis we regress investment on three measures of the stock market and then we regress growth on value of investments as shown below:

**FIRST EQUATION**

$$\text{INV}_{it} = \alpha_i + \gamma_t + \theta_1(\text{MCR}_{it-1}) + \theta_2(\text{STR}_{it-1}) + \theta_3(\text{TR}_{it-1}) + \varepsilon_{it} \tag{...4.1.1}$$

**EQUATION TWO**

$$\begin{aligned}
 \text{Growth}_{it} = & \alpha_i + \gamma_t + \phi_1 \text{Growth}_{it-1} + \phi_2(\text{INV}_{it-1}) + \\
 & \phi_3(\text{FDI}_{it-1}) + \phi_4(\text{SE}_{it-1}) + \phi_5(\text{OR}_{it-1}) + \phi_6(\text{PC}_{it-1}) + \varepsilon_{it}
 \end{aligned}
 \tag{.....4.1.2}$$

Where,

**Growth<sub>it</sub>** refers to the per capita growth rate of gross domestic products of ith country for t period

**MCR<sub>it</sub>** refers to the market capitalization ratio of ith country for t period

**STR<sub>it</sub>** refers to the value traded ratio of ith country for t period

**TR<sub>it</sub>** refers to the turnover ratio of ith country for t period

**INV<sub>it</sub>** refers to domestic investment to GDP ratio of ith country for t period

**FDI<sub>it</sub>** refers to foreign direct investment to GDP ratio of ith country for t period

**SE<sub>it</sub>** refers to secondary school enrollment as percent of school population

**OR<sub>it</sub>** refers to the openness ratio of ith country for t period

**PC<sub>it</sub>** refers to domestic credits to GDP ratio of ith country for t period

**ε<sub>it</sub>** refers to independent disturbances of ith country for t period

**α<sub>i</sub>** refers to the country-specific effects

**γ<sub>t</sub>** refers to the any common period-specific effects

Specifically, in such models the presence of lagged dependent variable (dynamic panel) implies correlation between the error term and the lagged dependent variable, rendering the OLS estimator biased and inconsistent. Instead, we use an instrumental variable approach that yields consistent estimators. The coefficient of the lagged growth variable would then capture any convergence effects of growth (e.g., see Islam, 1995; and Lee, Pesaran, and Smith, 1997).

**4.2 SPECIFICATIONS OF VARIABLES AND HYPOTHESIS**

Three variables are used as proxy for measuring the stock market development in the study:

i) Market Capitalization Ratio (MCR): The hypothesis is that there is positive impact of stock market capitalization ratio on economic growth. This measure equals the value of listed shares on domestic exchanges divided by gross domestic products (GDP). The ratio measures the size of the stock market relative to economy.

<sup>1</sup>Levine and Zervos regress the growth rate of GDP per capita on a variety of control variables (to control for initial conditions) and a conglomerated index of stock market development, following the theoretical work of Atje and Jovanovic (1993). Though they find a positive and significant correlation between stock market development and long run economic growth, their approach entails possible measurement problems (use of two different sources: IFC and IFS), statistical problems (cross-sectional approach), and conceptual problems (combining several measures into a single measure) which may affect their results. The present paper is an attempt to address these shortcomings.

ii) Total Value of Shares Traded Ratio (STR): It is hypothesized that the value-traded ratio of stock market has significant influence on the economic growth. This measure equals total value of shares traded on the stock market exchange divided by GDP. The total value traded ratio measures the organized trading of firm equity as a share of national output and therefore should positively reflect liquidity on an economy-wide basis. It measures the trading relative to the size of the economy. Atje and Jovanovic (1993) and Levine and Zervos (1998) study considered value traded ratio as a measure of stock market activity to test the stock market influence on GDP growth.

iii) Turnover Ratio (TR): The hypothesis is that turnover ratio has a positive association with GDP per capita growth rate. This ratio equals the value of total shares traded on domestic exchanges divided by market capitalization of the stock market. This ratio measures the size of the liquidity of the stock market. The turnover ratio measures the volume of domestic equities traded relative to the size of the market. The higher the ratio, the higher will be the liquidity of the stock market. Levine (1991), and Bencivenga, Demircug & Levine (1996), Murinde (1996) used in their studies turnover ratio as one of the explanatory variable for assessing the stock market impact on GDP growth rate.

**5. INTERPRETATION OF RESULTS**

**5.1 UNIT ROOT TEST**

Before the study makes attempt to estimate the impact of stock market development on economic growth rate among the SAARC countries, the unit root test has been made for all the variables for the study by using the Augmented Dickey Fuller test.

The market capitalization ratio for Bangladesh, Pakistan, and India found stationary at the first difference form where as for Sri Lanka it is found at level form. The value traded ratio of Bangladesh, India, and Pakistan has unit root at the level form but for Sri Lanka this variable has no unit root. The turnover ratio of Bangladesh, Pakistan and Sri Lanka has been found stationary at the first difference form while for India it is at the level form.

Now look at other control variables considered for the study. For Bangladesh and India, FDI is stationary at the first difference form while for Pakistan and Sri Lanka it is stationary at the level form. Private credit to GDP ratio of Bangladesh is stationary at first difference form but it is stationary at the level form for India, Sri Lanka and Pakistan. The secondary school enrollment ratio of all the SAARC member countries is stationary at the first difference form except for Sri Lanka which is found at the level form. The openness ratio of India and Sri Lanka is stationary at the first difference form where as it is stationary for Bangladesh and Pakistan at the level form. Finally, the per capita GDP growth rate is stationary at the level form for Bangladesh, India, and Sri Lanka while it is stationary at first difference form for Pakistan.

**TABLE: 5.1 SUMMARY RESULTS OF UNIT ROOT TEST**

| Variables  | Order of Integration |       |           |          |
|--|----------------------|-------|-----------|----------|
|  | Bangladesh           | India | Sri Lanka | Pakistan |
| Market Capitalisation Ratio                            | I(0)                 | I(0)  | I(0)      | I(0)     |
| Total Value Traded Ratio                               | I(1)                 | I(1)  | I(0)      | I(1)     |
| Turnover Ratio   | I(1)                 | I(0)  | I(1)      | I(1)     |
| FDI as % GDP   | I(1)                 | I(1)  | I(1)      | I(0)     |
| Domestic investment to GDP Ratio                       | I(1)                 | I(0)  | I(1)      | I(1)     |
| Private Credit to GDP Ratio                            | I(1)                 | I(0)  | I(0)      | I(0)     |
| Openness Ratio   | I(0)                 | I(1)  | I(1)      | I(0)     |
| Secondary School Enrollment % secondary age population | I(1)                 | I(1)  | I(0)      | I(1)     |

The table highlights the summary of unit root test for all the stock market development indicators as well as other control variables taken into account in the study. The results found that some of the variables stationary level form and some at first difference form. Therefore, in order to accurately estimate the regression equation all variables are expressed in difference form while running the models.

**5.2 INTERPRETATION OF DYNAMIC PANEL MODEL**

The study uses two dynamic panel models to ascertain the impact of stock market development on economic growth..

**5.2.1 Direct Effect of Stock Market on Per Capita Growth Rate (Model One)**

Model one attempt to assess impact of the stock market development directly on per capita growth rate. The following tables represent the results of first dynamic model using both common and cross section coefficients.

**TABLE 5.2: REGRESSION RESULTS UNDER DIRECT MODEL**

| Variables   | Common Coefficient  | Cross Section Coefficient |                     |                     |                     |
|---|---------------------|---------------------------|---------------------|---------------------|---------------------|
|   | SAARC               | Bangladesh                | India               | Sri Lanka           | Pakistan            |
| D[Per Capita GDP Growth(-1)]                              | -0.561<br>(-6.626)* | -0.5073<br>(-3.501)*      | -0.686<br>(-3.113)* | -0.520<br>(-3.429)* | -0.386<br>(-2.640)* |
| D[Market Capitalisation Ratio]                            | 0.019<br>(0.436)    | -0.098<br>(-0.224)        | -0.017<br>(-0.183)  | 0.080<br>(0.882)    | -0.093<br>(-1.049)  |
| D[Total Value Traded Ratio]                               | -0.018<br>(-0.564)  | 0.655<br>(0.247)          | -0.242<br>(-1.435)  | -0.529<br>(-0.609)  | -0.018<br>(-0.503)  |
| D[Turnover ratio]   | 0.011<br>(1.573)    | -0.009<br>(-0.189)        | 0.035<br>(0.888)    | 0.264<br>(1.094)    | 0.013<br>(1.792)    |
| D[FDI as % GDP]   | -0.215<br>(-0.580)  | 2.595<br>(0.658)          | -3.971<br>(-1.924)  | -0.159<br>(-0.300)  | 3.513<br>(2.856)*   |
| D[Domestic Investment % GDP]                              | 0.311<br>(2.512)*   | -0.584<br>(-1.796)        | 0.486<br>(1.891)    | 0.220<br>(1.137)    | 0.194<br>(0.590)    |
| D[Private Credit to GDP Ratio]                            | 0.003<br>(0.257)    | -0.069<br>(-0.768)        | 0.481<br>(1.250)    | 0.312<br>(1.893)    | 0.0790<br>(1.097)   |
| D[Openness Ratio]   | -0.001<br>(-0.1)    | -0.000<br>(-0.084)        | 0.525<br>(1.645)    | 0.016<br>(0.254)    | -0.156<br>(-2.854)* |
| D[Secondary School Enrollment % secondary age population] | 0.027<br>(0.304)    | -0.302<br>(-2.244)*       | -0.198<br>(-0.492)  | 0.157<br>(1.056)    | 0.318<br>(1.789)    |
| R-squared   | 0.372               | 0.626271                  |                     |                     |                     |
| Adjusted R Square   | 0.277               | 0.345974                  |                     |                     |                     |
| No. of Observations 23 after adjustment                   |                     |                           |                     |                     |                     |

Note: Value without parentheses represents coefficient and within parentheses represents t statistics. D refers to all variables are expressed in difference form.

Look at the performance of the SAARC region under both common and cross section coefficients using the first model. Lag of per Capita GDP growth rate has a negative sign with statistically significant coefficient. This means that lag value itself has negative effect on per capita GDP growth rate. Market capitalization

ratio, turnover ratio, private credit to GDP ratio and secondary school enrollment percent of secondary age population all have the positive sign and not found significant. The results indicate that these variables do not have effect on the per capita GDP growth rate.

On the other hand, total value traded ratio, FDI to GDP ratio, and openness ratio have the negative sign and not statistically significant. This means that all these variables will not have any effect on per capita growth rate. Only the domestic investment to GDP ratio has positive sign with statistically significant coefficient, This implies that if this ratio changes by 1 percent then per capita growth rate will increase by 0.311 percent in SAARC region. The investment can affect the growth rate in the region. The R square value is 0.37 meaning that 31 percent of per capita growth rate can be explained by the variables taken in the model.

**5.2.2 Indirect Effect of Stock Market through Investment (Second Model)**

Second model attempts to ascertain the stock market impact on growth rate through its effect on investment. It is to mention here that this model has taken into account lag value for all of its variables considered. The table below represents the indirect effect of stock market development by using both common and cross section specific coefficient.

**TABLE: 5.3 RESULTS OF REGRESSION UNDER INDIRECT EFFECT**

| First Equation: Regression of Stock Market on Investment |                    |                           |                    |                    |                    |
|--|--------------------|---------------------------|--------------------|--------------------|--------------------|
|  | Common Coefficient | Cross Section Coefficient |                    |                    |                    |
|  | SAARC              | Bangladesh                | India              | Sri Lanka          | Pakistan           |
| D[Market Capitalisation Ratio]                           | 0.039<br>(1.393)   | -0.013<br>(-0.083)        | 0.032<br>(0.381)   | 0.0559<br>(0.597)  | 0.070<br>(1.4155)  |
| D[Total Value Traded Ratio]                              | 0.0107<br>(0.360)  | -0.000<br>(-0.01)         | 0.009<br>(0.345)   | -0.054<br>(-0.198) | -0.002<br>(-0.425) |
| D[Turnover Ratio]  | -0.002<br>(-0.48)  | 0.105<br>(0.097)          | -0.033<br>(-0.393) | 0.715<br>(0.708)   | 0.013<br>(0.329)   |
| R-squared  | 0.1126             | 0.146                     |                    |                    |                    |
| Adjusted R Square  | 0.049              | -0.021                    |                    |                    |                    |

| Second Equation: Regression of Fitted Value of Investment on Per Capita GDP Growth   |       |            |                    |                     |                     |                     |                     |
|--|-------|------------|--------------------|---------------------|---------------------|---------------------|---------------------|
|  | SAARC | Bangladesh | India              | Sri Lanka           | Pakistan            |                     |                     |
| D[Per Capita GDP Growth(-1)]   |       |            | -0.538<br>(-5.724) | -0.401<br>(-2.141)* | -0.475<br>(-2.752)* | -0.460<br>(-2.389)* | -0.231<br>(-0.979)  |
| D[Fitted Value of Investment(-1)]  |       |            | -0.121<br>(-0.874) | 0.7080<br>(1.846)   | -0.106<br>(-0.445)  | -0.190<br>(-0.906)  | -0.1287<br>(-0.942) |
| D[FDI to GDP Ratio (-1)]   |       |            | -0.064<br>(-0.151) | -2.898<br>(-1.065)  | 0.030<br>(0.016)    | -0.264<br>(-0.437)  | -2.533<br>(-1.462)  |
| D[Private Credit t/GDP Ratio(-1)]  |       |            | 0.001<br>(0.117)   | 0.088<br>(0.857)    | 0.200<br>(0.801)    | 0.0265<br>(0.126)   | -0.0435<br>(-0.442) |
| D[Openness Ratio(-1)]  |       |            | -0.000<br>(-0.304) | 0.001<br>(0.512)    | -0.020<br>(-0.075)  | -0.198<br>(-1.942)  | 0.096<br>(1.141)    |
| D[Secondary School Enrollment % secondary age population(-1)]  |       |            | 0.001<br>(0.015)   | 0.1724<br>(1.075)   | -0.193<br>(-0.512)  | -0.198<br>(-1.042)  | 0.236<br>(0.825)    |
| R-squared  |       |            | 0.288              | 0.401               |                     |                     |                     |
| Adjusted R Square  |       |            | 0.205              | 0.132               |                     |                     |                     |
| No. of observations 22 after adjustment  |       |            |                    |                     |                     |                     |                     |
| Note: Value without parentheses represents coefficient and within parentheses represents t statistics. D refers to all variables are expressed in difference form. |       |            |                    |                     |                     |                     |                     |

Have a look at the first equation of the above table which indicates that all the stock market indicators in the SAARC region as a whole are not statistically significant. This can be interpreted in such a way that stock market does not have any positive impact on the investment ratio in the region. On the other hand, stock market indicators in Bangladesh, India, Sri Lanka, and Pakistan do not reflect the statistically significant coefficients meaning that stock market development variables considered in the study will not have any positive direct effect on the investment rate for any one of the SAARC member countries. The R square value signifies the findings that only 28 percent of the domestic investment can be explained by the stock market indicators. Now look at the second equation of the model when fitted value of investment is regressed on per capita growth rate. The results indicate that FDI to GDP ratio, private credit and openness ratio all are not found significant meaning that they do not have any effect on per capita growth rate of SAARC region.

**6. CONCLUSION**

In case of first dynamic panel model which assumed that stock market will have a direct impact on the per capita growth using the common coefficient state that domestic investment has the significant influence on the per capita growth in the SAARC region. All the stock market indicators: market capitalization ratio, value traded ratio, and turnover ratio are not statistically significant for the region meaning that stock market does not have any contribution to the per capita growth rate in the region. No other control variables have found significant for the SAARC region except for the lag value of per capita GDP growth rate although it has the negative sign. This implies value of last year per capita growth rate has negative impact on this year growth rate.

On the other hand, second panel model is a two stage equation to measure the stock market impact on per capita growth rate. First equation measures the impact of stock market variables on domestic investment and then second equation measures the impact of fitted value of investment developed from the first equation on per capita GDP growth rate. The results reflect that stock market size, activity and liquidity do not have any effect on the investment. Therefore, the fitted value of investment in the second equation is not found statistically significant. The implication is that stock market in the SAARC region has no influence on the per capita GDP growth rate. It is also to be mentioned that no other control variables have any significant coefficient except for the lag value of per capita growth rate. But the sign is negative for this lag value meaning that last year per capita growth rate has inverse effect on this year growth rate of SAARC countries.

The results did not lead support to empirical studies of Leve(1991), Levine & Zervos (1996, 1998), Islam(1998) as well as other studies and theory that stock market has direct association with per capita growth rate. The reasons may be due to the fact that fund mobilised by stock market in the region is still in transitional period. That's why it is very small relative to its economy. The stock market in SAARC countries liberalised in the early 1990s and their effect has not yet been flourished. The stock market in SAARC region has not been developed like other sectors in economy. Different strategies are being taken in order to develop the stock market for the whole region in recent years. As its outcome South Asian Federation of Exchanges comes into existence to promote the stock market in the region.

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