The Role of Women in Inclusive growth in Pakistan

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Abstract

This paper seeks to summarize the knowledge products obtained from existing studies, statements and initiatives. There is no bigger policy challenge preoccupying leaders around the world than expanding social participation in the process and benefits of economic growth and integration. Even if the precise nature and relative importance of the causes of rising inequality and stagnating median household incomes remain in debate, a geographically and ideologically diverse consensus has emerged that a new, or at least significantly improved, model of economic growth and development is required. The practice of inclusive growth and development therefore requires widening the lens through which priorities are set in national economic strategies. Macroeconomic, trade and financial stability policies remain critically important as they establish the conditions necessary for improvements in productivity that help drive growth.

Keywords: economic growth, women, inclusive growth

JEL Codes: O40, B54

1. Introduction

We have relatively few but well-founded and relevant studies, reports and publications on inclusive growth. An inclusive growth strategy involve a fundamental transformation of the society, and requires considerable resources. Finance and investment are necessary for the inclusive institutions that satisfy all people have equal access to job opportunities and social services such as education and health. Despite the growing awareness of the necessity of prioritizing an inclusive growth strategy on the development agenda, many developing countries simply lack sufficient resources and capacity to accommodate this transformation. This highlights the central role foreign aid can play in promoting inclusive growth of aid recipient countries. After the Second World War, foreign aid's major objective was to promote economic growth to eliminate poverty and inequality. In recent decades, the purpose of aid has evolved from growth to multiple goals such as the United Nations' Millennium Development Goals (MDGs) that focus on poverty, literacy, health, women's right, etc. Accordingly, the allocation of official development assistance (ODA) has shifted from traditional activities that promote economic development and welfare of the developing countries to a more proactive structure that fosters more equitable societies and inclusive growth. Cross country evidences reveal that Asian countries have experienced rapid growth over the last two decades. The increase in growth is accompanied with reduction in poverty from 1990 to 2001 as the number of individuals living below the poverty line has decreased over the time period (ADB 2006). Growth is considered to be a necessary condition for reduction in poverty but growth does not necessarily imply that it will lead to improve in living standards of every one. Growth does benefit and improve standards of living but it may lead to increase in inequality if it leads to increase in benefits for few section of the society only. This has been witnessed in China as economic growth benefited all segments of the society, it lead to improvement in living standards for all, but the improvement benefited more to rich as compared to poor. The same situation persists in India as well. In contrast, countries like Brazil, Mexico, and Thailand have different scenario where there is increase in economic growth and this increase is also accompanied with improvement in equity (Anand et al, 2013).

Pakistan historically has seen episodes of high growth but those unfortunately were not coupled with such macroeconomic conditions as are required to achieve lower poverty levels. Therefore, Pakistan has always been facing the challenge of achieving rather more inclusive growth that has its benefits spreading to all classes of society. The provision of basic services such as education, health sanitation, and housing for all the segments of population, and social security schemes to ensure social protection are critical for long run reductions in poverty. The concept of inclusive growth was measured initially using access to opportunity such as education for countries like Philippines (Ali and Son, 2007), Pakistan (Newman, 2012 and Asghar and Javed, 2011) and (Ravaillon and Chen, 2003). The literature also examines inclusiveness of growth using income per capita for Turkey (Taskin, 2014) which reveals that increase in per capita income has been achieved at the expense of equity. The macroeconomic picture suggests rising poverty and inequality for Pakistan. Given this backdrop our objective in this study to see whether growth in Pakistan has been beneficial for all or not. If the growth in Pakistan has been achieved at the expense of equity then the benefits of growth are unevenly distributed and the poor benefit less from growth as compared to the rich as the poor are constrained by circumstances or market failures. This situation prevails if market mechanism operates. Thus, there government can play its role by formulating policies that distributes the benefits of growth equally and reduce inequality

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The ultimate outcomes of inclusive growth are (i) sustainable and equitable growth, (ii) social inclusion, (iii) empowerment, and (iv) security. Economic growth is indeed an essential requirement for inclusive growth. For growth to be rapid and sustained, it should be broad-based across sectors and regions, and inclusive of the large part of the labor force, including the poor and vulnerable groups of the population. Social inclusion is the removal of institutional barriers and the enhancement of incentives to increase the access of all segments of the society to development opportunities. Empowerment is the enhancement of the assets and capabilities of diverse individuals and groups to function in to participate in the growth process. One key measure is related to providing job opportunities and promoting productivity. The Eminent Persons group report argues that inclusive growth continues to emphasize the importance of economic growth. Rapid economic growth can benefit all segments of society including the poor. Indeed, a rise in growth rate potentially creates more job opportunities and may also improve labor productivity, hence raising individual's income on average. Very recently the report of the Eminent Persons Group that was initiated by the Asian Development Bank (ADB 2007c) made the reference to the term "inclusive growth" which emphasizes ensuring that the economic opportunities created b growth are available to all-particularly the poor-to the maximize possible extent (see also ali and Zhuang 2007). The growth process creates new economic opportunities that are unevenly distributed. The poor are generally constrained by circumstances or market failure that constrain them from availing these opportunities. As result, the poor generally benefits less from growth then the nonpoor. Thus \, growth will generally be pro-poor if left completely to markets. The government, however, can formulate policies and program that facilitate the full participation of those less well off in the new economic opportunities. We may thus define inclusive growth as growth that not only creates new economic opportunities, but also one that ensures equal access the opportunities created for all segments particularly for poor. While some level of growth is obviously a necessary condition for sustained poverty reduction, and strong average growth by itself is not sufficient condition. Growth does not guarantee that all persons will benefit equally. Growth can bypass the poor or or marginalized groups, resulting in increasing inequality. High and rising level of income inequality can lower the impact on poverty reduction of given rate of growth, and can also reduce the growth rate itself? High inequality also has implications for political stability and social cohesion needed for sustainable growth. Hence, reducing inequality has become a major concern of development policy, a concern that has generated interest in inclusive growth. While there remains no consensus on how to define or measure inclusive growth, the issue has generated a certain amount of policy and academic debate.

2. Literature Review

Mckinley (2010) construct a composite inclusive growth index at the country level. It identifies suitable indicators in the areas of growth productive employment and economic infrastructure, income poverty and equity, human capabilities and social protection. It uses these indicators to suggest a diagnostic approach, based on weights and scores which can help countries assess their progress in achieving inclusive growth. The Composite index could also be used by ADB as a starting point to diagnostic how to maximize its support for a country's inclusive growth objective. The inclusive growth can be interpreted narrowly or broadly. The narrow interpretation implies a focus on growth, which expanding human capabilities is regarded to improving economic outcome. The broadly interpretation could lead to emphasizing what has been called inclusive development. This approach would imply emphasizing non-income measures of well-being and valuing human capabilities, such as good health and literacy, primary as human development outcomes, not as instruments to accelerate growth.

Tirmazee and Haroon (2015) growth is considered to be a necessary condition for reduction in poverty but growth does not necessarily imply that it will lead to improve in living standard of everyone. Growth does benefit and improve standard of living but it may lead to increase in inequality. Pakistan has always been facing the challenges of achieving rather more inclusive growth that has its benefits spreading to all classes of society. The provision of basic services such as education, health sanitation and housing for all the segments of population and social security scheme to ensure social protection are critical for long run reduction in poverty.

Rauniyar and Kanbur (2010) attempt to set out a framework for discussing the role of development for rural infrastructure to advance inclusive development. This requires a discussion of a number of issues. The definition of inclusive development, in particular distinguishing it from growth, pro-poor growth and inclusive growth and differentiating these from each other. Inclusive growth is that which is accompanied by lower income inequality, so that the increment of income accrues to those with lower income. With these definition growth, can be pro-poor without being inclusive, since growth can be accompanied by falling poverty but rising inequality. The concept of development differs from growth in expanding the focus from income alone to other dimensions of well-being, in particular education and health. Inclusive development refers to the improvement of the distribution of well-being along these dimensions at the same time as the

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average achievement improves. Infrastructure for inclusive growth must address its adequacy in rural areas, for example rural roads connecting villages to each other and to small markets towns, and these small markets towns to district capital. A recent literature on education and health also provides the evidence for the role of rural roads in determining achievement along these dimensions. Thus, rural infrastructure is also determinant of inclusive development providing that utilization of infrastructure is given attention at the same time as its supply.

Rauniyar and Kanbur (2009) The Asian Development Bank has relevant studies, reports, and publications on inclusive growth, inclusive development, or inclusive social development. This summarize the knowledge products obtained from existing ADB studies, statements and initiatives. Among the findings is that while there is no agreed and common definition of inclusive growth or inclusive development, the term is understood to refer to growth coupled with equal opportunities and consisting of economics social and institutional dimensions. ADB literature are that efforts to achieve inclusive growth and inclusive development should involve a combination of mutually reinforcing measures including: (a) promoting efficient and sustainable economic growth; (b) ensuring a level political playing field; (c) strengthen capabilities and providing for social safety nets.

Anyanwu (2013) The high growth that has experienced in recent years, poverty inequality and unemployment remains high, indicating lack of inclusion in the development process and its outcomes. This study is an attempt to contribute to the design of inclusive growth policies. It examines the correlation of poverty headcount index of international poverty line. Our estimates suggests that higher levels of income inequalities primary education alone minerals rents inflation and higher level of population tend to increase poverty and bad for poverty reduction and inclusive growth in continents. Poverty is a complex and universal socio-economic problem. The poor can be categorized as: (i) those households or individuals below the poverty line and whose income are insufficient to provide for basic needs; (ii) households or individuals lacking access to basic services, political contacts and other forms of support, including the urban squatters and "street" children; (iii) people in isolated rural areas who lack essential infrastructure such as basic services; (iv) female headed households whose nutritional needs are not being met adequately; (v) persons who have lost their jobs and those who are unable to find employment and (vi) ethnic minorities who are marginalized, deprived and persecuted economically, socially, culturally and politically (Anyanwu, 1997).

Yongfu and Quibria (2013) mention transition towards growth will entitl aboard change in institutions, policies and values needed to generate the resources necessary to satisfy the essential needs of human wellbeing: food, health, energy, education and housing, and to address poverty reduction (e.g., Ravallion and Chen 2001; Dollar and Kraay 2002). However, growth itself cannot ensure that all people, especially the poor and the vulnerable, benefit equally from economic progress. If left to market forces, growth can bypass those most vulnerable and the poor, giving rise to an increased gap in income and wealth among people. Social inclusiveness is a must for ensuring sustainable growth, because sustained long-term growth calls for an increasing participation of the labor force in the growth process and an expansion of the sources of growth (Ianchovichina and Lundstrom 2009). Inclusive growth advocates that growth benefits be shared by people from all walks of life. In other words, regardless of gender, ethnicity and religion, people from all social sectors should be able to contribute to, and benefit from, economic development. From an economic point of view, inclusive growth can contribute to economic development by broadening the base for domestic demand. Politically inclusive growth can lead to a more stable society, essential for long-term advancement. As pointed out by Wilkinson and Pickett (2009), more inclusive societies generally have a better economic and political performance than unequal ones.

Juzhong and Ifzal (2007) Developing Asia is a key development goal in response to raising inequalities and increasing concern that these could undermine the very sustainability of growth. Inclusive growth emphasizing creation of an equal access to opportunities and that unequal opportunities arise from social exclusion associated with market, institutional, and policy failures. A development strategy anchored on inclusive growth is outlined consisting of two mutually reinforcing strategic pillars of high and sustainable growth to create economic opportunities and social inclusion to ensure equal access to opportunities. This will enable developing to accomplish the agenda of extreme poverty and at the same time address the development challenges brought about by rising inequalities. The importance of "inclusive growth" and "inclusiveness" has been recognized in many of its strategic documents. For instance, "inclusive social development" is one of the strategic pillars of the Enhanced Poverty Reduction Strategy (PRS) (ADB 2004b). "Strengthening inclusiveness" is one of the strategic priorities of the Medium-Term Strategy II 2006–2008 (ADB 2006c). More recently, a panel of eminent persons commissioned by ADB's President to provide insights on the region's future and on how it will affect the future role of ADB, called on the institution to expand its strategic role from poverty reduction to inclusive growth (ADB 2007b).

Ifzal and Son (2007) By studying this we approach to defining and measuring inclusive growth using a new methodology to capture inclusive growth. Growth is defined as inclusive if it increases the social opportunity function, which depends on two factors: (i) average opportunities available to the population, and (ii) how opportunities are shared among the population. Implantation of this idea is by means of the opportunity curve, which has a one-to-one relationship with the social opportunity function. To complement the shortcoming of the opportunity curve particularly partial ranking, the study also develops the opportunity index to provide a complete ranking. The proposed methodologies are applied to the Philippines using its micro unit record household survey. Empirical applications analyze access to and equity of such opportunities as employment (total and also by gender); education; health; and basic infrastructure such as electricity, clean drinking water, and sanitation. The term "inclusive growth", which mean that the economic opportunities created by growth are available to all particularly the poor to the maximum possible extent. This way of growth creates new economic opportunities that are unevenly distributed. The poor are generally constrained by circumstances or market failures that don't allow them to avail of these opportunities. As a result, the poor generally benefit less from growth than the nonpoor. Thus, growth will generally be not pro-poor if left completely to markets. The government can make policies and programs that facilitate the full participation in the new economic opportunities for poor. We may define inclusive growth as growth that not only creates new economic opportunities, but also one that ensures equal access to the opportunities created for all segments of society. Growth is inclusive when it allows all members of a society to participate in, and contribute to, the growth process on an equal basis regardless of their individual circumstances. It is not necessary to convert several indicators of well-being into one single index, as correctly argued by Sen (1989). The concept of wellbeing has an inherent plurality and should not be seen as a unidimensional measure such as that of weight or height. Therefore, inclusiveness of growth could be monitored better for a specific country rather than across countries. In addition to the key monitoring indicators discussed in this study, other additional indicators could be chosen by a country, depending on its policy objectives. Monitoring these associated indicators for growth inclusiveness over time would involve very high demands on information.

3. Theoretical model

The objective of this paper is to investigate the inclusive growth for the period 1980-2015 using the fully modified cointegration and long run technique. The study has investigated the impact of female labor force participation, globalization, middle school, personal remittances, primary school, secondary school education, secondary school enrollment total, and population growth and population density in Pakistan. We collected the data over the period of 1980 to 2015 the data for all the selected variables is taken from the world development indicators, economic survey of Pakistan, freedom house and united nations development programme. Following previous literature (Ali and Naeem, 2017; Ali, 2011; Ali, 2015; Ali, 2018; Ali and Bibi, 2017; Ali and Ahmad, 2014; Ali and Audi, 2016; Ali and Audi, 2018; Ali and Rehman, 2015; Ali and Senturk, 2019; Ali and Zulfiqar, 2018; Ali et al., 2016; Ali et al., 2021; Ali et al., 2021; Ali et al., 2017; Audi et al., 2021; Ali and Ali, 2016; Audi et al., 2021; Audi et al., 2021; Haider and Ali, 2015; Kaseem et al., 2019; Roussel et al., 2021; Senturk and Ali, 2021), the functional form of the model becomes as

Y =f(flfp,glb,prr,pg,pd,ms,ps,sse,sset) Where,

Y is inclusive growth proxy by Gini coefficient.

flfp = female labor force participation

glb = globalization

prr = personal remittances

ps = primary school

ms = middle school

sse = secondary school education

sset =secondary school enrollment total

pg = population gro[wth

pd = population density

 $Gini=\beta1+\beta2LFLFP+\beta3LGLB+\beta4LMS+\beta5LPS+\beta6LSSE+\beta7LSSET+\beta8PG+\beta9PD+et$

4. Econometric methodology

Mostly time series data has non-stationary problem and the estimated regression results of this data became spurious for policy suggestion (nelson and ploser, 1982). All co-integration method also demand the stationary of the variables. This

study comprises with the different econometric method or used different test to show our result is stationary or significant, fact of time series data that it contains unit root problem and regression results of this data are spurious. For the solution of unit root problem, this study uses Augmented Dickey-Fuller (ADF) unit root test, the calculated results of ADF test are presented in this paper.

5. Empirical Results and Discussion

The descriptive statistics is presented at below;

Table 1

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	Gini	Lflfp	Lglb	lms	Lprr	lps	lsse	Lsset	pd	pg
Mean	0.350	2.68	3.67	4.73	1.49	5.13	13.4	7.25	170.0	2.54
Medium	0.351	2.67	3.75	3.21	1.53	3.72	13.6	7.35	169.1	2.45
Max	0.410	3.18	3.94	8.98	2.32	9.16	14.1	8.22	245.0	3.34
Min	0.275	1.95	3.28	2.16	0.37	2.46	11.5	6.23	101.2	2.02
Std.dev	0.042	0.32	0.25	2.71	0.51	2.67	0.68	0.56	42.76	0.49
Skewness	-0.13	-0.30	-0.42	0.66	-0.50	0.64	-0.77	-0.21	0.073	0.50
Kurtosis	1.805	2.55	1.57	1.53	2.43	1.52	2.60	1.99	1.841	1.66
Jarque- Bera	2.25	0.84	4.12	5.84	1.98	5.74	3.86	1.79	2.044	4.20
Prob.	0.32	0.65	0.12	0.05	0.37	0.05	0.144	0.40	0.359	0.12
Sum	12.6	96.6	132.4	170.3	53.81	184.9	482.7	261.1	6120.8	91.6
Sum sq.dev	0.003	3.77	2.25	258.5	9.13	249.6	16.5	11.3	64007	8.54
Obs	36	36	36	36	36	36	36	36	36	36

The estimated results reveal that female labor force participation, globalization, personal remittances, secondary school education, secondary school enrollment total and Gini are negatively skewed and middle school, primary school, population growth and population density are positively skewed. The results show that all the variables have positive kurtosis. The values of Jarque-Bera show that all the variables of the model have zero mean and finite covariance, this confirms that selected data sets are normally distributed.

Table 2 Pair wise correlation

	Correlation t-Statistic Probability									
	GINI	LFLFP	LGLB	LMS	LPRR	LPS	LSSE	LSSET	PD	PG
GINI	1.000									
LFLFP	-0.497	1.000								
	-3.340									
	0.0020									
LGLB	-0.571	0.881	1.000							
	-4.056	10.91								
	0.0003	0.000								
LMS	0.236	-0.703	-0.824	1.000						
	1.416	-5.76	-8.504							
	0.165	0.0000	0.000							
LPRR	-0.191	-0.151	-0.405	0.613	1.000					

	-1.135	-0.892	-2.589	4.530						
	0.264	0.3782	0.0141	0.0001						
LPS	0.209	-0.702	-0.819	0.999	0.620	1.000				
	1.248	-5.754	-8.323	145.8	4.610					
	0.220	0.0000	0.000	0.000	0.0001					
LSSE	-0.542	0.761	0.825	-0.678	-0.286	-0.674	1.000			
	-3.765	6.859	8.516	-5.384	-1.74	-5.329				
	0.0006	0.000	0.000	0.0000	0.090	0.0000				
LSSET	-0.431	0.924	0.946	-0.762	-0.324	-0.765	0.797	1.000		
	-2.78	14.10	17.123	-6.875	-1.997	-6.934	7.705			
	0.008	0.000	0.000	0.000	0.0538	0.0000	0.000			
PD	-0.574	0.936	0.946	-0.713	-0.19	-0.71	0.815	0.981	1.000	
	-4.092	15.52	17.07	-5.938	-1.13	-5.90	8.219	29.77		
	0.0002	0.000	0.000	0.000	0.263	0.000	0.000	0.000		
PG	0.556	-0.863	-0.993	0.853	0.437	0.84	-0.84	-0.93	-0.930	1.000
	3.903	-9.970	-49.12	9.568	2.836	9.36	-9.25	-15.2	-14.82	
	0.000	0.00	0.000	0.00	0.007	0.00	0.00	0.000	0.000	

Unit root test is used for checking the stationarity of the variables. The results reported in table are describing that secondary school education is stationary at level I(0). While the variables, female labor force participation, globalization, middle school, personal remittances, primary school, secondary school enrollment total, population growth, population density and Gini are stationary not stationary at level. But at first difference I(1) all the variables of the model become stationary. Hence there is mix order of integration among the variables of the model which is suitable condition for applying Auto-regressive Distributed lag (ARDL) bound testing approach to co integration.

Table no.3 At level

Variables	t-ststistics	p-value			
LFLFP	-1.8483	0.3519			
LGLB	-1.104313	0.7031			
LMS	-1.538848	0.5025			
LPRR	-1.524972	0.5094			
LPS	-1.54318	0.5002			
LSSE	-2.834536	0.0638			
LSSET	0.582195	0.8620			
PG	-1.797310	0.3737			
PD	-2.331386	0.7341	·		
GINI	-2.09972	0.2459			

At 1ST Difference

Variables	t-statistics	p-value	
LFLFP	-6.483378	0.6987	
LGLB	-5.650938	0.0598	
LMS	-5.863072	0.0011	
LPRR	-5.128148	0.0063	
LPS	-5.695672	0.0007	
LSSE	-9.372262	0.5256	
LSSET	-4.203645	0.0000	
PG	-4.795307	0.6555	
PD	-0.276825	0.0008	
GINI	-3.449143	0.0083	

6. Lag length criterion analysis

Table	no.4
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		140	10.1		
Lag	LogL	LR	FPE	SC	HQ

()	81.33265	NA	7.13e-15	-4.196038	-3.747109	-4.042941
ŀ	1	556.3743	642.7034	2.38e-24	-26.25731	-21.31909	-24.57324
	2	874.4585	243.2409*	3.98e-29*	-39.08580*	-29.65827*	-35.87074*

^{*} indicates lag order selected by the criterion

LR: sequential modified LR test statistic (each test at 5% level)

FPE: Final prediction error
AIC: Akaike information criterion
SC: Schwarz information criterion

HQ: Hannan-Quinn information criterion

By keeping in view the number of observation and variables the lag order selection criterions are reported; maximum two lags are allowed to Vector-Regressive process. The results show that all criterions allow optimal lag length 2, thus sequential modified LR test statistics, final prediction, Akaike information criterion, Schwarz information criterion and Hannan-Quinn information criterion lag length 2, is used for the variables of this model.

The results of bound testing approach show that F-statistic is greater than the upper bound value at 5 percent so there is co-integration among the variables of the model.

Table 5
Bound testing analysis: F-Statistics=8.000406

Boana testing analysis, 1 Statistics—0.000 100						
Level of significance	Lower bound value	Upper bound value				
5%	2.14	3.3				
10%	1.88	2.99				

The long run results of the study are presented at below,

Table 6Long run results; Dependent variable=GINI

Variables	Coefficient	t-statistics	p-value
LFLFP	-0.006925	-0.394055	0.6981
LGLB	0.197313	2.025439	0.0598
LMS	0.149535	3.957490	0.0011
LPRR	0.070223	3.138524	0.0063
LPS	-0.156283	-4.187033	0.5256
LSSE	-0.006354	-0.648846	0.0000
LSSET	0.328839	7.299863	0.6555
PG	-0.044614	-0.454624	0.0008
PD	-0.006836	-4.092875	0.0083

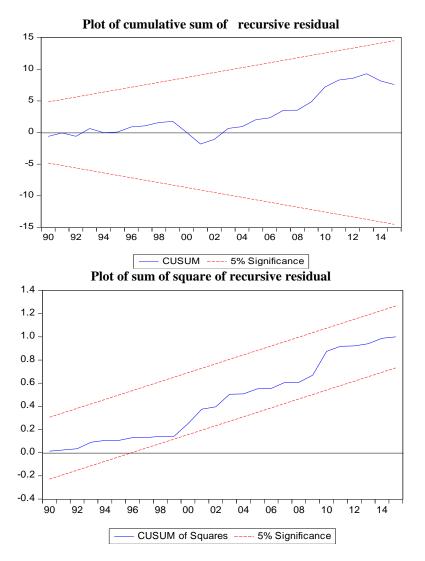
The results show that female labor force participation is insignificant and negative relationship with Gini. The results highlight that globalization has positive and significant impact on Gini. The estimated results show that middle school has positive and significant impact on Gini. The results show that personal remittances has positive and significant impact on Gini. The results show that secondary school education has negative and significant impact on Gini. The results show that secondary school enrollment total has positive and insignificant impact on Gini. The results show that population growth has negative and significant impact on Gini. The results show that population density has negative and significant impact on Gini.

Table 7Short run results; Dependent variable=GINI

		T	
Variables	Coefficient	t-statistics	p-value
D(LFLFP)	0.007834	0.686583	0.5022
D(LGLB)	0.148343	2.067890	0.0522
D(LMS)	0.074557	3.541817	0.0027
D(PRR)	0.021933	2.685584	0.0162
D(PS)	-0.076343	-3.543041	0.0027

D(SSE)	0.002847	0.651758	0.5238
D(SSET)	0.177594	0.229023	0.0000
D(PG)	0.090432	1.338460	0.1995
D(PD)	0.043031	1.185207	0.2532
ContEg(-1)	-0.751815	-4.789315	0.0002

After finding cointegration and long run results now we are examining the short run relationship among the variables of the model. The coefficient of conteg (-1) gives the adjustment speed of the model towards long-run equilibrium. The estimated coefficient of conteg is statistically significant and the negative sign shows the convergence to the equilibrium. Highly significant estimated coefficient of conteg also indicates cointegration among variables of our model.



The cumulative sum (CUSUM) and CUSUMQ of recursive residuals are used to detect the structural stability of the equations. The systematic changes in the regression coefficients are detected through diagnostic tests. While the abrupt changes in the regression coefficients are identified through CUSUM and CUSUMQ. The results found in figures indicate that the test statistics are within band of 5 percent confidence interval. This implies the stability of the estimation model over the selected period

7. Conclusion

This analysis examine the role of women in inclusive growth for Pakistan using time series analysis. For this purpose, we analyze inclusive growth by decomposing it two components equity and efficient. Efficiency means the overall improvement in the country and equity means the improvement to be equally distributed across various segments of the population. By applying augmented dickey fuller test, all the variables are significant at 1st difference. The first statistic estimation data used from 1980-2015 and data is collected from economics survey of Pakistan, world development indicators, freedom house and united nation development programme. unit root test is use for examine the stationary of the variables of the model. auto regressive distributed lag (ARDL) is used to examine the cointegration between the variables. The findings of the study reveal that the coefficient of gini has positive and significant.

References

- Ali, A. & Naeem, M.Z. (2017). Trade Liberalization and Fiscal Management of Pakistan: A Brief Overview. *Policy Brief-Department of Economics*, *PU*, *Lahore*. 2017 (1), 1-6.
- Ali, A. (2011). Disaggregated import demand functions of Pakistan; An empirical Analysis. M-Phil Thesis, NCBA&E, Lahore, Pakistan, 1-70.
- Ali, A. (2015). *The impact of macroeconomic instability on social progress: an empirical analysis of Pakistan*. (Doctoral dissertation, National College of Business Administration & Economics Lahore).
- Ali, A. (2018). Issue of Income Inequality Under the Perceptive of Macroeconomic Instability: An Empirical Analysis of Pakistan. *Pakistan Economic and Social Review*, 56(1), 121-155.
- Ali, A. and Bibi, C. (2017). Determinants of Social Progress and its Scenarios under the role of Macroeconomic Instability: Empirics from Pakistan. *Pakistan Economic and Social Review* 55 (2), 505-540.
- Ali, A., & Ahmad, K. (2014). The Impact of Socio-Economic Factors on Life Expectancy in Sultanate of Oman: An Empirical Analysis. *Middle-East Journal of Scientific Research*, 22(2), 218-224.
- Ali, A., & Audi, M. (2016). The Impact of Income Inequality, Environmental Degradation and Globalization on Life Expectancy in Pakistan: An Empirical Analysis. *International Journal of Economics and Empirical Research*, 4 (4), 182-193.
- Ali, A., & Audi, M. (2018). Macroeconomic Environment and Taxes Revenues in Pakistan: An Application of ARDL Approach. *Bulletin of Business and Economics* (BBE), 7(1), 30-39.
- Ali, A., & Rehman, H. U. (2015). Macroeconomic instability and its impact on the gross domestic product: an empirical analysis of Pakistan. *Pakistan Economic and Social Review*, 285-316.
- Ali, A., & Şenturk, I. (2019). Justifying the Impact of Economic Deprivation, Maternal Status and Health infrastructure on Under-Five Child Mortality in Pakistan: An Empirical Analysis. *Bulletin of Business and Economics*, 8(3), 140-154.
- Ali, A., & Zulfiqar, K. (2018). An Assessment of Association between Natural Resources Agglomeration and Unemployment in Pakistan. *Pakistan Vision*, 19(1), 110-126.
- Ali, A., Ahmed, F., & Rahman, F. U. (2016). Impact of Government Borrowing on Financial Development (A case study of Pakistan). *Bulletin of Business and Economics* (BBE), 5(3), 135-143.
- Ali, A., Audi, M., & Roussel, Y. (2021). Natural Resources Depletion, Renewable Energy Consumption and Environmental Degradation: A Comparative Analysis of Developed and Developing World. *International Journal of Energy Economics and Policy*, 11(3), 251-260.
- Ali, A., Audi, M., Bibi, C., & Roussel, Y. (2021). The Impact of Gender Inequality and Environmental Degradation on Human Well-being in the Case of Pakistan: A Time Series Analysis. *International Journal of Economics and Financial Issues*, 11(2), 92-99.
- Ali, A., Mujahid, N., Rashid, Y., & Shahbaz, M. (2015). Human capital outflow and economic misery: Fresh evidence for Pakistan. *Social Indicators Research*, 124(3), 747-764.
- Ali, I. and H. H. Son (2007). Measuring Inclusive Growth. Asian Development Review, 24(1), 11.
- Arezki, R. and M. K. Nabli (2012).Natural Resources, Volatility, and *Inclusive* Growth: Perspectives from the Middle East and North Africa, **IMF** Working Paper 12/111. Washington, DC: IMF.
- Arndt, C. S. Jones, and F. Tarp (2012). 'Assessing Foreign Aid's Long Run Condition to Growth and Development. Helsinki: UNU-WIDER. Mimeo
- Arshad, S., & Ali, A. (2016). Trade-off between Inflation, Interest and Unemployment Rate of Pakistan: Revisited. *Bulletin of Business and Economics (BBE)*, 5(4), 193-209.
- Ashraf, I., & Ali, A. (2018). Socio-Economic Well-Being and Women Status in Pakistan: An Empirical Analysis. *Bulletin of Business and Economics (BBE)*, 7(2), 46-58.
- Audi, M & Ali, A. (2017). Socio-Economic Status and Life Expectancy in Lebanon: An Empirical Analysis. *Archives of Business Research*, 5(11), 159-170

- Audi, M. & Ali, A. (2017). Environmental Degradation, Energy consumption, Population Density and Economic Development in Lebanon: A time series Analysis (1971-2014). *Journal of International Finance and Economics*, 17(1), 7-20.
- Audi, M. Sadiq, A. Ali, A. and Roussel, Y. (2021). Performance Evaluation of Islamic and Non-Islamic Equity and Bonds Indices: Evidence from Selected Emerging and Developed Countries. *Journal of Applied Economic Sciences*, 16(73), 251–269.
- Audi, M., & Ali, A. (2016). A Causality and Co-integration Analysis of Some Selected Socio-Economic Determinants of Fertility: Empirics from Tunisia. *Bulletin of Business and Economics (BBE)*, 5(1), 20-36.
- Audi, M., Ali, A., & Roussel, Y. (2021). Aggregate and Disaggregate Natural Resources Agglomeration and Foreign Direct Investment in France. *International Journal of Economics and Financial Issues*, 11(1), 147-156.
- Audi, M., Ali, A., & Roussel, Y. (2021). Measuring the Tax Buoyancy: Empirics from South Asian Association for Regional Cooperation (SAARC). *Empirical Economics Letters*, 20(12).
- Audi, M., Ali, A., & Roussel, Y. (2021). The Advancement in Information and Communication Technologies (ICT) and Economic Development: A Panel Analysis. *International Journal of Innovation, Creativity and Change*, 15(4), 1013-1039.
- Dollar, D, and C. Burnside (2000). Aid, Policies, and Growth. American Economic Review, 90(4), 847-68.
- Dollar, D., and A. Kraay (2002). Growth Is Good for the Poor. *Journal of Economic Growth*, 7(3), 195–225.
- EC (European Commission) (2010).'Europe 2020: Α Strategy for Smart, Sustainable Inclusive Growth. EC document COM(2010) 2020. Brussels: EC. Available ec.europa.eu/economy_finance/structural_reforms/europe_2020
- Foster, J. E., and M. Székely (2008). Is Economic Growth Good for the Poor? Tracking Low Incomes Using General Means. *International Economic Review*, 49(4),1143–72
- Habito, C. F. (2009). 'Patterns of Inclusive Growth in Developing Asia: Insights from an Enhanced Growth-Poverty Elasticity Analysis'. ADBI Working Paper Series 145. Tokyo: Asian Development Bank Institute.
- Haider, A., & Ali, A. (2015). Socio-economic determinants of crimes: a cross-sectional study of Punjab districts. *International Journal of Economics and Empirical Research*, 3(11), 550-560.
- Hatlebakk, M. (2008). Inclusive Growth in Nepal. i. Bergen, Chr. Michelsen Institute.
- Ianchovichina, E, and S. Gable (2012). What Is Inclusive Growth? In R. Arezki et al. (eds), *Commodity Price Volatility and Inclusive Growth in Low-Income Countries*. Washington, DC: IMF, 147–60.
- Ianchovichina, E, and S. Lundström (2009). Inclusive Growth Analytics: Framework and Application. WB Policy Research Working Paper 4851. Washington, DC: World Bank.
- Ifzal, A. (2007). Pro-Poor to inclusive growth: Asian Prescriptions, ERD policy Brief No.48.
- Kassem, M. Ali, A. & Audi, M. (2019). Unemployment Rate, Population Density and Crime Rate in Punjab (Pakistan): An Empirical Analysis. *Bulletin of Business and Economics (BBE)*, 8(2), 92-104.
- Klasen, S. (2010). Measuring and Monitoring Inclusive Growth: Multiple Definitions, Open Questions, and Some Constructive Proposals. ADB Sustainable Development Working Paper Series 12. Manila: Asian Development Bank.
- Roussel, Y., Ali, A., & Audi, M. (2021). Measuring the Money Demand in Pakistan: A Time Series Analysis. *Bulletin of Business and Economics (BBE)*, 10(1), 27-41.
- Sajid, A. & Ali, A. (2018). Inclusive Growth and Macroeconomic Situations in South Asia: An Empirical Analysis. Bulletin of Business and Economics (BBE), 7(3), 97-109. Şentürk, İ., & Ali, A. (2021). Socioeconomic Determinants of Gender Specific Life Expectancy in Turkey: A Time Series Analysis. Sosyoekonomi, 29(49), 85-111.
- Virtanen, P. and D. Ehrenpreis (2007). Growth, Poverty and Inequality in Mozambique. IPC-UNDP Country Study 10. Brasilia: IPC-UNDP.

