

Appendix 2
Result of Data Panel Test Using Eviews 9.0

a. COMMON EFFECT

Dependent Variable: POV					
Method: Panel Least Squares					
Date: 11/02/18 Time: 17:12					
Sample: 2010 2016					
Periods included: 7					
Cross-sections included: 6					
Total panel (balanced) observations: 42					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	20973.68	5777.207	3.630419	0.0009	
HDI	-266.1986	77.70111	-3.425931	0.0015	
GRDP	-0.000140	0.006493	-0.021585	0.9829	
INF	-94.76741	89.16539	-1.062827	0.2947	
UNEMP	0.001361	0.000475	2.863304	0.0069	
R-squared	0.714293	Mean dependent var	2619.989		
Adjusted R-squared	0.683406	S.D. dependent var	2136.445		
S.E. of regression	1202.107	Akaike info criterion	17.13288		
Sum squared resid	53467247	Schwarz criterion	17.33975		

Log likelihood	-354.7905	Hannan-Quinn criter.	17.20871
F-statistic	23.12585	Durbin-Watson stat	0.071681
Prob(F-statistic)	0.000000		

b. FIXED EFFECT

Dependent Variable: POV					
Method: Panel Least Squares					
Date: 11/02/18 Time: 22:45					
Sample: 2010 2016					
Periods included: 7					
Cross-sections included: 6					
Total panel (balanced) observations: 42					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	15661.11	2329.516	6.722902	0.0000	
HDI	-192.0823	30.54794	-6.287898	0.0000	
GRDP	0.016691	0.006042	2.762583	0.0094	
INF	-17.74241	12.35036	-1.436591	0.1605	
UNEMP	2.72E-05	0.000417	0.065240	0.9484	
Effects Specification					

Cross-section fixed (dummy variables)			
R-squared	0.995955	Mean dependent var	2619.989
Adjusted R-squared	0.994817	S.D. dependent var	2136.445
S.E. of regression	153.8105	Akaike info criterion	13.11358
Sum squared resid	757045.2	Schwarz criterion	13.52731
Log likelihood	-265.3851	Hannan-Quinn criter.	13.26522
F-statistic	875.3717	Durbin-Watson stat	1.184186
Prob(F-statistic)	0.000000		

c. RANDOM EFFECT

Dependent Variable: POV				
Method: Panel EGLS (Cross-section random effects)				
Date: 11/02/18 Time: 22:47				
Sample: 2010 2016				
Periods included: 7				
Cross-sections included: 6				
Total panel (balanced) observations: 42				
Swamy and Arora estimator of component variances				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	15180.82	1604.226	9.463018	0.0000

HDI	-189.0007	21.73796	-8.694499	0.0000
GRDP	-0.000623	0.002243	-0.277587	0.7829
INF	-31.59522	11.72130	-2.695540	0.0105
UNEMP	0.001355	0.000163	8.294928	0.0000
Effects Specification				
			S.D.	Rho
Cross-section random			172.1284	0.5560
Idiosyncratic random			153.8105	0.4440
Weighted Statistics				
R-squared	0.625552	Mean dependent var	838.3547	
Adjusted R-squared	0.585071	S.D. dependent var	717.1820	
S.E. of regression	461.9728	Sum squared resid	7896499.	
F-statistic	15.45301	Durbin-Watson stat	0.216681	
Prob(F-statistic)	0.000000			
Unweighted Statistics				
R-squared	0.689852	Mean dependent var	2619.989	
Sum squared resid	58041209	Durbin-Watson stat	0.029479	

d. CHOW TEST

Redundant Fixed Effects Tests				
Equation: FIXED				
Test cross-section fixed effects				
Effects Test	Statistic	d.f.	Prob.	
Cross-section F	445.607882	(5,32)	0.0000	
Cross-section Chi-square	178.810868	5	0.0000	
Cross-section fixed effects test equation:				
Dependent Variable: POV				
Method: Panel Least Squares				
Date: 11/02/18 Time: 22:49				
Sample: 2010 2016				
Periods included: 7				
Cross-sections included: 6				
Total panel (balanced) observations: 42				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	20973.68	5777.207	3.630419	0.0009
HDI	-266.1986	77.70111	-3.425931	0.0015
GRDP	-0.000140	0.006493	-0.021585	0.9829

INF	-94.76741	89.16539	-1.062827	0.2947
UNEMP	0.001361	0.000475	2.863304	0.0069
R-squared	0.714293	Mean dependent var	2619.989	
Adjusted R-squared	0.683406	S.D. dependent var	2136.445	
S.E. of regression	1202.107	Akaike info criterion	17.13288	
Sum squared resid	53467247	Schwarz criterion	17.33975	
Log likelihood	-354.7905	Hannan-Quinn criter.	17.20871	
F-statistic	23.12585	Durbin-Watson stat	0.071681	
Prob(F-statistic)	0.000000			

e. HAUSMAN TEST

Correlated Random Effects - Hausman Test			
Equation: RANDOM			
Test cross-section random effects			
		Chi-Sq.	
Test Summary		Statistic Chi-Sq. d.f.	Prob.
Cross-section random	300.781872	4	0.0000
Cross-section random effects test comparisons:			

Variable	Fixed	Random	Var(Diff.)	Prob.
	-			
	192.08232	-		
HDI	5	189.000658	460.637748	0.8858
GRDP	0.016691	-0.000623	0.000031	0.0020
	-			
INF	17.742410	-31.595222	15.142529	0.0004
UNEMP	0.000027	0.001355	0.000000	0.0005

Cross-section random effects test equation:

Dependent Variable: POV

Method: Panel Least Squares

Date: 11/02/18 Time: 22:52

Sample: 2010 2016

Periods included: 7

Cross-sections included: 6

Total panel (balanced) observations: 42

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	15661.11	2329.516	6.722902	0.0000

HDI	-192.0823	30.54794	-6.287898	0.0000
GRDP	0.016691	0.006042	2.762583	0.0094
INF	-17.74241	12.35036	-1.436591	0.1605
UNEMP	2.72E-05	0.000417	0.065240	0.9484
Effects Specification				
Cross-section fixed (dummy variables)				
R-squared	0.995955	Mean dependent var	2619.989	
Adjusted R-squared	0.994817	S.D. dependent var	2136.445	
S.E. of regression	153.8105	Akaike info criterion	13.11358	
Sum squared resid	757045.2	Schwarz criterion	13.52731	
Log likelihood	-265.3851	Hannan-Quinn criter.	13.26522	
F-statistic	875.3717	Durbin-Watson stat	1.184186	
Prob(F-statistic)	0.000000			

f. HETEROSKEDASTICITY TEST

USING GLEJSER TEST

Dependent Variable: RESABS
Method: Panel Least Squares
Date: 11/03/18 Time: 01:12

Sample: 2010 2016

Periods included: 7

Cross-sections included: 6

Total panel (balanced) observations: 42

White diagonal standard errors & covariance (d.f. corrected)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	6755.599	3096.101	2.181970	0.0366
HDI	-77.57529	41.11502	-1.886787	0.0683
GRDP	-0.001495	0.008484	-0.176208	0.8612
INF	-43.60097	24.25461	-1.797637	0.0817
UNEMP	-5.94E-05	0.000928	-0.064043	0.9493

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.866298	Mean dependent var	896.3262
Adjusted R-squared	0.828694	S.D. dependent var	693.6018
S.E. of regression	287.0758	Akaike info criterion	14.36163
Sum squared resid	2637201.	Schwarz criterion	14.77536
Log likelihood	-291.5942	Hannan-Quinn criter.	14.51328
F-statistic	23.03752	Durbin-Watson stat	1.370722

Prob(F-statistic)	0.000000
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g. AUTOCORRELATION TEST – DURBIN WATSON TEST

Dependent Variable: POV

Method: Panel Least Squares

Date: 11/02/18 Time: 17:12

Sample: 2010 2016

Periods included: 7

Cross-sections included: 6

Total panel (balanced) observations: 42

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	20973.68	5777.207	3.630419	0.0009
HDI	-266.1986	77.70111	-3.425931	0.0015
GRDP	-0.000140	0.006493	-0.021585	0.9829
INF	-94.76741	89.16539	-1.062827	0.2947
UNEMP	0.001361	0.000475	2.863304	0.0069
R-squared	0.714293	Mean dependent var	2619.989	
Adjusted R-squared	0.683406	S.D. dependent var	2136.445	
S.E. of regression	1202.107	Akaike info criterion	17.13288	

Sum squared resid	53467247	Schwarz criterion	17.33975
Log likelihood	-354.7905	Hannan-Quinn criter.	17.20871
F-statistic	23.12585	Durbin-Watson stat	0.071681
Prob(F-statistic)	0.000000		

h. AUTOCORRELATION TEST – DURBIN WATSON TEST (CROSS-SECTION SUR MODEL)

Dependent Variable: POV					
Method: Panel EGLS (Cross-section SUR)					
Date: 11/03/18 Time: 01:41					
Sample: 2010 2016					
Periods included: 7					
Cross-sections included: 6					
Total panel (balanced) observations: 42					
Linear estimation after one-step weighting matrix					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	20956.65	547.1073	38.30446	0.0000	
HDI	-266.3495	7.282155	-36.57564	0.0000	
GRDP	0.000413	0.001104	0.373927	0.7106	
INF	-84.32639	9.513518	-8.863849	0.0000	

UNEMP	0.001354	2.78E-05	48.75444	0.0000
Weighted Statistics				
R-squared	0.989634	Mean dependent var	1.473436	
Adjusted R-squared	0.988513	S.D. dependent var	11.27122	
S.E. of regression	1.045000	Sum squared resid	40.40495	
F-statistic	883.0940	Durbin-Watson stat	2.022048	
Prob(F-statistic)	0.000000			
Unweighted Statistics				
R-squared	0.713678	Mean dependent var	2619.989	
Sum squared resid	53582317	Durbin-Watson stat	0.062703	