

## APPENDIX

Table 13: GINI Decomposition by Income Source, (Agriculture and Non Agriculture/Major Income Sources) 1994

<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.1366	0.7157	0.0005	0.0001	-0.1365
Non Agri Income Source	0.8629	0.6055	0.9589	0.9995	0.1366
Salary Wages	0.5128	0.7428	0.713	0.5419	0.0291
Entrepreneurial Income	0.2665	0.8273	0.4222	0.1857	-0.0808
Other Source	0.2207	0.9193	0.6731	0.2724	0.0517
<b>Urban</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.0694	0.8395	-0.0162	-0.0019	-0.0713
Non Agri Income Source	0.93	0.5473	0.9766	1.0015	0.0715
Salary Wages	0.5375	0.7031	0.6735	0.5129	-0.0246
Entrepreneurial Income	0.2247	0.8783	0.4893	0.1946	-0.0301
Other Source	0.2378	0.9087	0.6719	0.2925	0.0547
<b>Rural</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.3657	0.531	0.3678	0.1821	-0.1835
Non Agri Income Source	0.6342	0.5867	0.8616	0.8178	0.1836
Salary Wages	0.4285	0.7693	0.6458	0.5431	0.1145
Entrepreneurial Income	0.409	0.699	0.3749	0.2734	-0.1356
Other Source	0.1624	0.9138	0.4847	0.1835	0.0211

Table 14: GINI Decomposition by Income Source, (Agriculture and Non Agriculture/Major Income Sources) 1997

<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.1259	0.7217	-0.0835	-0.0157	-0.1416
Non Agri Income Source	0.8901	0.5656	0.9655	1.0035	0.1134
Salary Wages	0.4135	0.8014	0.6828	0.4672	0.0537
Entrepreneurial Income	0.5865	0.6793	0.6478	0.5328	-0.0537
<b>Urban</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.0561	0.8561	-0.0705	-0.0073	-0.0635
Non Agri Income Source	0.9488	0.4952	0.9823	0.9978	0.049
Salary Wages	0.4673	0.7374	0.6229	0.464	-0.0033
Entrepreneurial Income	0.5327	0.7244	0.6425	0.536	0.0033
<b>Rural</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.3436	0.5235	0.287	0.1233	-0.2202
Non Agri Income Source	0.7069	0.585	0.8893	0.8787	0.1718
Salary Wages	0.2458	0.8785	0.5881	0.3034	0.0576
Entrepreneurial Income	0.7542	0.5373	0.7194	0.6966	-0.0576

Table 15: GINI Decomposition by Income Source, (Agriculture and Non Agriculture/Major Income Sources) 2000

<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.1163	0.7406	-0.0344	-0.0062	-0.1225
Non Agri Income Source	0.8842	0.5624	0.9659	1.0071	0.1229
Salary Wages	0.5269	0.7335	0.7164	0.5805	0.0537
Entrepreneurial Income	0.2485	0.8294	0.3649	0.1577	-0.0908
Other Source	0.2247	0.902	0.6161	0.2618	0.0371
<b>Urban</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.0569	0.8695	0.041	0.0045	-0.0524
Non Agri Income Source	0.9437	0.4883	0.9812	0.9966	0.053
Salary Wages	0.5564	0.6809	0.6657	0.5559	-0.0005
Entrepreneurial Income	0.2088	0.8781	0.4196	0.1696	-0.0392
Other Source	0.2349	0.8904	0.5955	0.2746	0.0397
<b>Rural</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.3028	0.5469	0.2638	0.1062	-0.1966
Non Agri Income Source	0.6974	0.5884	0.8965	0.8941	0.1967
Salary Wages	0.4341	0.7855	0.6779	0.5618	0.1276
Entrepreneurial Income	0.3732	0.71	0.3409	0.2195	-0.1537
Other Source	0.1927	0.9008	0.5186	0.2187	0.0261

Table 16: GINI Decomposition by Income Source, (Agriculture and Non Agriculture/Major Income Sources) 2006

<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.1433	0.6863	-0.0255	-0.0053	-0.1485
Non Agri Income Source	0.8567	0.5797	0.9598	1.0053	0.1485
Salary Wages	0.4978	0.7473	0.6913	0.5422	0.0445
Entrepreneurial Income	0.2415	0.8257	0.3448	0.145	-0.0965
Other Source	0.2607	0.888	0.6406	0.3128	0.052
<b>Urban</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.0523	0.8709	0.0574	0.0059	-0.0464
Non Agri Income Source	0.9477	0.4727	0.982	0.9941	0.0464
Salary Wages	0.553	0.671	0.6247	0.5239	-0.0291
Entrepreneurial Income	0.1779	0.8971	0.4254	0.1534	-0.0245
Other Source	0.2692	0.8706	0.6095	0.3227	0.0536
<b>Rural</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.3009	0.5319	0.2452	0.0936	-0.2072
Non Agri Income Source	0.6991	0.6019	0.9026	0.9064	0.2072
Salary Wages	0.4022	0.7846	0.6209	0.4675	0.0653
Entrepreneurial Income	0.3517	0.7347	0.3615	0.2229	-0.1288
Other Source	0.2461	0.8878	0.5939	0.3096	0.0635

Table 17: GINI Decomposition by Income Source, (Agriculture and Non Agriculture/Major Income Sources) 2009

<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.1464	0.7005	0.0322	0.0071	-0.1392
Non Agri Income Source	0.8536	0.5647	0.9559	0.9929	0.1392
Salary Wages	0.4874	0.7398	0.6683	0.5193	0.0318
Entrepreneurial Income	0.2397	0.8365	0.3662	0.1582	-0.0815
Other Source	0.2729	0.8784	0.6245	0.3225	0.0497
<b>Urban</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.0553	0.8763	0.1149	0.0127	-0.0426
Non Agri Income Source	0.9447	0.4656	0.9809	0.9873	0.0426
Salary Wages	0.5377	0.6723	0.6135	0.5075	-0.0302
Entrepreneurial Income	0.1778	0.8993	0.4262	0.1559	-0.0219
Other Source	0.2845	0.8619	0.5999	0.3366	0.0521
<b>Rural</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.2948	0.5519	0.2854	0.111	-0.1838
Non Agri Income Source	0.7052	0.5863	0.8993	0.889	0.1838
Salary Wages	0.4055	0.7724	0.601	0.45	0.0445
Entrepreneurial Income	0.3406	0.7606	0.3975	0.2462	-0.0944
Other Source	0.2539	0.878	0.57	0.3038	0.0499

Table 18: GINI Decomposition by Income Source, (Agriculture and Non Agriculture/Major Income Sources) 2012

<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.1379	0.6945	-0.0055	-0.0011	-0.139
Non Agri Income Source	0.8621	0.5589	0.9567	1.0011	0.139
Salary Wages	0.5142	0.7303	0.6756	0.551	0.0367
Entrepreneurial Income	0.2189	0.854	0.3793	0.154	-0.0649
Other Source	0.2669	0.8703	0.585	0.2951	0.0282
<b>Urban</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.0452	0.8813	-0.0387	-0.0035	-0.0487
Non Agri Income Source	0.9548	0.4664	0.9816	1.0035	0.0487
Salary Wages	0.5726	0.659	0.6336	0.5488	-0.0238
Entrepreneurial Income	0.1682	0.9065	0.4369	0.1529	-0.0153
Other Source	0.2592	0.8679	0.5774	0.2983	0.039
<b>Rural</b>					
<b>Source</b>	<b>Sk</b>	<b>Gk</b>	<b>Rk</b>	<b>Share</b>	<b>% Change</b>
Agricultural Income	0.2386	0.5771	0.2053	0.0647	-0.174
Non Agri Income Source	0.7614	0.5816	0.9238	0.9353	0.174
Salary Wages	0.4508	0.7613	0.6339	0.4975	0.0466
Entrepreneurial Income	0.274	0.8073	0.3886	0.1965	-0.0775
Other Source	0.2752	0.8625	0.5639	0.306	0.0308

**Table 19: Regional Inequality (Log of Gini) on Trade Facilitation Fixed Effects Regressions**

Explanatory Variables		Regional Inequality as measured by the log of GINI Coefficients																			
		Road Length		Road Length Ratio		High Quality Roads Ratio		Concrete Roads		Asphalt Roads		Annual Tonnage		Regional Passenger Ratio		Regional Throughput Ratio		Throughput for Domestic Shipments		Throughput for Foreign Shipments	
		Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.
Roads Access	Total Road Length	-0.126***	0.042																		
	log(Regional Road Length Ratio to National Total)			-0.13**	0.053																
Roads Quality	Ratio of High Quality Roads to Regional Total					-0.010***	0.003														
	Ratio of Concrete Roads to Regional Total							-0.002	0.003												
	Ratio of Asphalt Roads to Regional Total									-0.013**	0.005										
Seaports Capacity	Ratio of Gross Tonnage per Region to National											0.03**	0.011								
Passengers Utilization	Ratio of Regional Passengers to National Total of Passengers													-0.017*	0.003						
Seaports Quality	Cargo Throughput Regional to National Ratio															0.022***	0.006				
	Cargo Throughput for Domestic Shipments																	-0.029**	0.011		
	Cargo Throughput for Foreign Shipments																			0.011	0.012
	Income Adult Equivalence	0.029*	0.015	0.042**	0.017	0.076***	0.019	0.039**	0.015	0.038**	0.014	0.032	0.025	0.036	0.023	0.026	0.023	-0.004	0.015	0.006	0.013
	Aged Household Head Ratio	0.001	0.009	-0.002	0.009	0.004	0.009	0.000	0.010	-0.002	0.010	-0.002	0.002	-0.001	0.002	-0.002	0.002			-1.022	0.142
	Female Household Head Ratio	-0.001	0.007	0.001	0.007	-0.001	0.005	0.000	0.007	-0.003	0.007	-0.009	0.006	-0.008	0.005	-0.006	0.005				
	Urban Household Ratio	-0.001	0.002	-0.002	0.002	-0.004	0.003							0.000	0.001						
	College Ratio	0.016*	0.008																		
Constant		-0.054	0.384	-0.923***	0.163	-1.23**	0.085	-1.32***	0.102	-1.141***	0.120	-1.029***	0.224	-1.096***	0.185	-1.13***	0.233	-0.789	0.183	-1.022***	0.142
Over-all R-squared		0.130		0.110		0.015		0.032		0.024		0.386		0.038		0.326		0.018		0.046	

Notes: \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.  
Reported Standard Errors are Heteroskedasticity-robust standard errors

**Table 20: Regional Inequality (log of Theil T) on Trade Facilitation Fixed Effects Regressions**

		Regional Inequality as measured by log of Theil T																			
		Road Length		Road Length Ratio		High Quality Roads Ratio		Concrete Roads		Asphalt Roads		Annual Tonnage		Regional Passenger Ratio		Regional Throughput Ratio		Throughput for Domestic Shipments		Throughput for Foreign Shipments	
Explanatory Variables		Coef	s.e.	Coef	s.e.	Coef	s.e.	Coef	s.e.	Coef	s.e.	Coef	s.e.	Coef	s.e.	Coef	s.e.	Coef	s.e.	Coef	s.e.
Roads Access	Total Road Length	-0.23*	0.113																		
	log(Regional Road Length Ratio to National Total)			-0.29***	0.146																
Roads Quality	Ratio of High Quality Roads to Regional Total					-0.025***	0.007														
	Ratio of Concrete Roads to Regional Total							-0.004	0.007												
	Ratio of Asphalt Roads to Regional Total									-0.033**	0.013										
Seaports Capacity	Ratio of Gross Tonnage per Region to National											0.055*	0.030								
Passengers Utilization	Ratio of Regional Passengers to National Total of Passengers													0.018**	0.009						
Seaports Quality	Cargo Throughput Regional to National Ratio															0.056**	0.024				
	Cargo Throughput for Domestic Shipments																	-0.11***	0.019		
	Cargo Throughput for Foreign Shipments																			0.054*	0.030
	Income Adult Equivalence	0.039	0.037	0.066	0.042	0.147**	0.049	0.074*	0.039	0.073*	0.034	-0.032	0.038	0.036	0.023	0.105	0.081	-0.054	0.039	-0.026	0.036
	Aged Household Head Ratio	-0.003	0.028	-0.011	0.029	0.002	0.027	-0.005	0.028	-0.010	0.028			-0.001	0.002	-0.003	0.006	0.083	0.449		
	Female Household Head Ratio	-0.005	0.025	0.002	0.023	-0.004	0.020	0.001	0.021	-0.006	0.020			-0.008	0.005	-0.032*	0.017				
	Urban Household Ratio	-0.001	0.006	-0.002	0.007	-0.007	0.007							-0.001	0.002	0.000	0.001				
	College Ratio	0.037*	0.018																		
Constant		0.552	0.996	-0.886**	0.416	-1.57**	0.240	-1.605***	0.276	-1.166***	0.297	-0.624	0.435	-1.096***	0.185	-1.55*	0.646	0.083	0.449	-0.798	0.391
Over-all R-squared			0.101		0.059		0.038		0.011		0.023		0.460		0.038		0.030		0.048		0.055

Notes: \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

Reported Standard Errors are Heteroskedasticity-robust standard errors



**Table 21: Regional Inequality (log of Theil T) on Trade Facilitation Fixed Effects, without National Capital Region**

Explanatory Variables		Regional Inequality as measured by the log of Theil T																	
		Road Length		Road Length		High Quality		Asphalt Roads		Annual Tonnage		Regional		Regional		Throughput for		Throughput for	
		Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.
Roads Access	Total Road Length	-0.28**	0.109																
	log(Regional Road Length Ratio to National Total)			-0.276*	0.146														
Roads Quality	Ratio of High Quality Roads to Regional Total					-0.025***	0.007												
	Ratio of Asphalt Roads to Regional Total							-0.044**	0.015										
	Ratio of Gross Tonnage per Region to National									0.007	0.009								
Passengers Utilization	Ratio of Regional Passengers to National Total of Passengers											0.004	0.009						
Seaports Quality	Cargo Throughput Regional to National Ratio													0.044*	0.025				
	Cargo Throughput for Domestic Shipments																	-0.112***	0.020
	Cargo Throughput for Foreign Shipments																		0.054*
	Income Adult Equivalence	0.037	0.045	0.077	0.048	0.161	0.056	0.087**	0.036	0.135**	0.059	0.142**	0.057	0.097	0.088	-0.029	0.030	0.006	0.013
	Aged Household Head Ratio	-0.006	0.029	-0.011	0.031	0.001	0.029	-0.017	0.030	0.003	0.005	0.003	0.005	0.002	0.005				
	Female Household Head Ratio	-0.001	0.025	0.004	0.024	-0.003	0.021	-0.001	0.020	-0.025*	0.014	-0.0265*	0.013	-0.023	0.017				
	Urban Household Ratio	-0.001	0.006	-0.002	0.002	-0.008	0.008			-0.001	0.003								
	College Ratio	0.052**	0.018																
Over-all R-squared		1.025	1.016	-0.98*	0.407	-1.805	0.223	-1.28***	0.284	-1.975	0.445	-2.06***	0.451	-1.64*	0.698	-0.177	0.378	-1.02***	0.142
		0.036		0.014		0.021		0.067		0.029***		0.038		0.073		0.025		0.047	

Notes: \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

Reported Standard Errors are Heteroskedasticity-robust standard errors

**Table 22: Regional Inequality (log of Theil T) on Trade Facilitation Fixed Effects, with square of Income**

Explanatory Variables		Regional Inequality as measured by the log of Theil T																	
		Road Length		Road Length Ratio		High Quality Roads Ratio		Asphalt Roads		Annual Tonnage		Regional Passenger Ratio		Regional Throughput Ratio		Throughput for Domestic Shipments		Throughput Foreign Shipments	
		Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.	Coef.	s.e.
Roads Access	Total Road Length	-0.25**	0.107																
	log(Regional Road Length Ratio to National Total)			-0.289*	0.143														
Roads Quality	Ratio of High Quality Roads to Regional Total					-0.026**	0.008												
	Ratio of Concrete Roads to Regional Total																		
	Ratio of Asphalt Roads to Regional Total							-0.029**	0.013										
Seaports Capacity	Ratio of Gross Tonnage per Region to National									0.066	0.039								
Passengers Utilization	Ratio of Regional Passengers to National Total of Passengers											0.004	0.009						
Seaports Quality	Cargo Throughput Regional to National Ratio													0.044*	0.025				
	Cargo Throughput for Domestic Shipments															-0.112***	0.020		
	Cargo Throughput for Foreign Shipments																	0.054*	0.020
	Income Adult Equivalence	-0.339	0.561	-0.465	0.615	-0.486	0.628	-0.090	0.648	1.333	1.019	0.142**	0.057	0.097	0.088	-0.029	0.030	0.006	0.020
	Square of Income	0.021	0.032	0.030	0.035	0.036	0.036	0.009	0.037	-0.058	0.049								
	Aged Household Head Ratio	-0.007	0.028	-0.016	0.029	-0.005	0.027	-0.011	0.028	-0.003	0.006	0.003	0.005	0.002	0.005				
	Female Household Head Ratio	-0.006	0.026	-0.001	0.025	-0.008	0.022	-0.007	0.022	-0.031	0.020	-0.0265*	0.013	-0.023	0.017				
	Urban Household Ratio	0.002	0.006	0.002	0.007	-0.003	0.008	0.000	0.008	0.000	0.004								
	College Ratio	0.034*	0.018																
Constant		2.412	2.727	1.400	2.728	1.183	2.883	-0.472	2.809	-8.039	5.333	-2.06***	0.451	-1.64*	0.698	-0.177	0.378	-1.02***	0.020
Over-all R-squared		0.095		0.075		0.033		0.028		0.029***		0.038		0.073		0.025		0.047	

Notes: \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

Reported Standard Errors are Heteroskedasticity-robust standard errors

