

LAMPIRAN

Lampiran 1 : Data Negara India

Tahun	Ekspor CPO ke India (Ton)	PDB per kapita (USD)	Kurs (Rupiah)	Harga CPO (USD/Ton)	Harga SBO (USD/Ton)
1985	33544	293	1110	500	572
1986	27722	307	1282	257	342
1987	43429	337	1643	342	334
1988	70991	350	1685	437	463
1989	11880	342	1770	350	431
1990	2225	363	1842	289	447
1991	13390	300	1950	339	453
1992	6273	313	2029	393	428
1993	4082	298	2087	377	480
1994	1080	342	2160	528	615
1995	2058	370	2248	628	625
1996	9002	396	2342	530	551
1997	7745	411	2909	545	564
1998	50	409	10013	671	625
1999	29415	437	7855	436	427
2000	912116	438	8421	310	338
2001	713333	447	10260	285	354
2002	1046276	466	9311	390	454
2003	1402783	541	8577	443	553
2004	1745649	621	8938	471	616
2005	1796301	707	9704	422	544
2006	1893812	792	9159	478	598
2007	2742756	1018	9141	780	881
2008	3871490	991	9698	948	1258
2009	4402353	1090	10389	682	848
2010	4449537	1345	9090	900	1004
2011	4257407	1461	8770	1125	1299
2012	3614821	1446	9386	999	1226
2013	3099284	1452	10461	856	1056
2014	2888187	1576	11865	821	909
2015	3820702	1606	13389	559	682
2016	2948983	1717	13308	639	734
2017	4209366	1939	13380	649	757
Sumber	UN Comtrade	World Bank	World Bank	World Bank	World Bank

Lampiran 2 : Data Negara Belanda

Tahun	Ekspor CPO ke Belanda (Ton)	PDP Per kapita (USD)	Kurs (Rupiah)	Harga CPO (USD/Ton)	Harga SBO (USD/Ton)
1985	201587	9799	1110	500	572
1986	210784	13607	1282	257	342
1987	115496	16496	1643	342	334
1988	302525	17518	1685	437	463
1989	40355	17175	1770	350	431
1990	307688	21019	1842	289	447
1991	367251	21454	1950	339	453
1992	378681	23598	2029	393	428
1993	392434	22827	2087	377	480
1994	446600	24331	2160	528	615
1995	376674	28884	2248	628	625
1996	432431	28698	2342	530	551
1997	681465	26404	2909	545	564
1998	219109	27533	10013	671	625
1999	376360	27951	7855	436	427
2000	414254	25921	8421	310	338
2001	466294	26584	10260	285	354
2002	709193	28817	9311	390	454
2003	377424	35245	8577	443	553
2004	477558	39954	8938	471	616
2005	680871	41577	9704	422	544
2006	834256	44453	9159	478	598
2007	569870	51241	9141	780	881
2008	968205	56928	9698	948	1258
2009	1057227	51900	10389	682	848
2010	948460	50338	9090	900	1004
2011	602824	53540	8770	1125	1299
2012	1109525	49474	9386	999	1226
2013	1094672	51574	10461	856	1056
2014	866086	52157	11865	821	909
2015	1044090	44746	13389	559	682
2016	680073	45637	13308	639	734
2017	560853	48223	13380	649	757
Sumber	UN Comtrade	World Bank	World Bank	World Bank	World Bank

Lampiran 3 : Hasil Regres Data Negara India

INDIA

3. UJI UNIT ROOT TEST

3.1. HASIL UJI UNIT ROOT TEST EKSPOR TINGKAT LEVEL

Null Hypothesis: EKS_INDIA has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-0.195321	0.9293
Test critical values:		
1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(EKS_INDIA)

Method: Least Squares

Date: 02/16/19 Time: 19:53

Sample (adjusted): 1986 2017

Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
EKS_INDIA(-1)	-0.010300	0.052735	-0.195321	0.8465
C	145258.7	113562.6	1.279107	0.2107
R-squared	0.001270	Mean dependent var		130494.5
Adjusted R-squared	-0.032021	S.D. dependent var		471925.6
S.E. of regression	479421.8	Akaike info criterion		29.05901
Sum squared resid	6.90E+12	Schwarz criterion		29.15062
Log likelihood	-462.9442	Hannan-Quinn criter.		29.08938
F-statistic	0.038150	Durbin-Watson stat		1.867516
Prob(F-statistic)	0.846459			

3.2. HASIL UJI UNIT ROOT TEST PDB TINGKAT LEVEL

Null Hypothesis: PDB_PERKAPITA has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	2.962237	1.0000
Test critical values:		
1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(PDB_PERKAPITA)
 Method: Least Squares
 Date: 02/16/19 Time: 19:55
 Sample (adjusted): 1986 2017
 Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
PDB_PERKAPITA(-1)	0.073716	0.024885	2.962237	0.0059
C	-1.528434	21.40319	-0.071411	0.9435
R-squared	0.226303	Mean dependent var		51.44139
Adjusted R-squared	0.200513	S.D. dependent var		74.41241
S.E. of regression	66.53515	Akaike info criterion		11.29380
Sum squared resid	132807.8	Schwarz criterion		11.38541
Log likelihood	-178.7008	Hannan-Quinn criter.		11.32416
F-statistic	8.774845	Durbin-Watson stat		1.825135
Prob(F-statistic)	0.005926			

3.3. HASIL UJI UNIT ROOT TEST KURS TINGKAT LEVEL

Null Hypothesis: KURS has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-0.825176	0.7982
Test critical values: 1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(KURS)

Method: Least Squares

Date: 02/16/19 Time: 19:57

Sample (adjusted): 1986 2017

Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
KURS(-1)	-0.052292	0.063371	-0.825176	0.4158
C	731.2016	494.3307	1.479175	0.1495
R-squared	0.022193	Mean dependent var		383.4466
Adjusted R-squared	-0.010400	S.D. dependent var		1454.059
S.E. of regression	1461.601	Akaike info criterion		17.47291
Sum squared resid	64088309	Schwarz criterion		17.56452
Log likelihood	-277.5666	Hannan-Quinn criter.		17.50328
F-statistic	0.680916	Durbin-Watson stat		2.342525
Prob(F-statistic)	0.415785			

3.4. HASIL UJI UNIT ROOT TEST HARGA CPO TINGKAT LEVEL

Null Hypothesis: HARGA_CPO has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-1.789076	0.3789
Test critical values:		
1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(HARGA_CPO)
 Method: Least Squares
 Date: 02/16/19 Time: 19:58
 Sample (adjusted): 1986 2017
 Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
HARGA_CPO(-1)	-0.194434	0.108678	-1.789076	0.0837
C	112.4498	65.08275	1.727798	0.0943
R-squared	0.096407	Mean dependent var		4.639626
Adjusted R-squared	0.066287	S.D. dependent var		143.9306
S.E. of regression	139.0784	Akaike info criterion		12.76841
Sum squared resid	580283.8	Schwarz criterion		12.86002
Log likelihood	-202.2946	Hannan-Quinn criter.		12.79878
F-statistic	3.200792	Durbin-Watson stat		1.757654
Prob(F-statistic)	0.083705			

3.5. HASIL UJI UNIT ROOT TEST HARGA SBO TINGKAT LEVEL

Null Hypothesis: HARGA_SBO has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-1.652743	0.4449
Test critical values: 1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(HARGA_SBO)
 Method: Least Squares
 Date: 02/16/19 Time: 19:58
 Sample (adjusted): 1986 2017
 Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
HARGA_SBO(-1)	-0.168027	0.101666	-1.652743	0.1088
C	114.6234	71.35243	1.606441	0.1187
R-squared	0.083453	Mean dependent var		5.798698
Adjusted R-squared	0.052902	S.D. dependent var		159.7819
S.E. of regression	155.4981	Akaike info criterion		12.99161
Sum squared resid	725389.4	Schwarz criterion		13.08321
Log likelihood	-205.8657	Hannan-Quinn criter.		13.02197
F-statistic	2.731559	Durbin-Watson stat		1.765853
Prob(F-statistic)	0.108812			

4. UJI DERAJAT INTEGRASI / UJI AKAR UNIT TINGKAT *First Difference*

4.1. EKSPOR

Null Hypothesis: D(EKS_INDIA) has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-5.058951	0.0003
Test critical values:		
1% level	-3.661661	
5% level	-2.960411	
10% level	-2.619160	

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

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(EKS_INDIA,2)
 Method: Least Squares
 Date: 02/16/19 Time: 20:05
 Sample (adjusted): 1987 2017
 Included observations: 31 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(EKS_INDIA(-1))	-1.042164	0.206004	-5.058951	0.0000
C	138857.2	89569.81	1.550268	0.1319
R-squared	0.468796	Mean dependent var		40845.33
Adjusted R-squared	0.450479	S.D. dependent var		656818.8
S.E. of regression	486897.8	Akaike info criterion		29.09184
Sum squared resid	6.88E+12	Schwarz criterion		29.18435
Log likelihood	-448.9235	Hannan-Quinn criter.		29.12199
F-statistic	25.59298	Durbin-Watson stat		1.812941
Prob(F-statistic)	0.000022			

4.2. PDB

Null Hypothesis: D(PDB_PERKAPITA) has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-3.572257	0.0124
Test critical values:		
1% level	-3.661661	
5% level	-2.960411	
10% level	-2.619160	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(PDB_PERKAPITA,2)

Method: Least Squares

Date: 02/16/19 Time: 20:07

Sample (adjusted): 1987 2017

Included observations: 31 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(PDB_PERKAPITA(-1))	-0.699469	0.195806	-3.572257	0.0013
C	38.84728	15.99985	2.427978	0.0216
R-squared	0.305573	Mean dependent var		6.717174
Adjusted R-squared	0.281627	S.D. dependent var		86.92506
S.E. of regression	73.67499	Akaike info criterion		11.49954
Sum squared resid	157412.1	Schwarz criterion		11.59206
Log likelihood	-176.2429	Hannan-Quinn criter.		11.52970
F-statistic	12.76102	Durbin-Watson stat		1.863243
Prob(F-statistic)	0.001260			

4.3. KURS

Null Hypothesis: D(KURS) has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-6.650348	0.0000
Test critical values:		
1% level	-3.661661	
5% level	-2.960411	
10% level	-2.619160	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(KURS,2)

Method: Least Squares

Date: 02/16/19 Time: 20:09

Sample (adjusted): 1987 2017

Included observations: 31 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(KURS(-1))	-1.208353	0.181698	-6.650348	0.0000
C	472.2501	273.5075	1.726644	0.0949
R-squared	0.603972	Mean dependent var		-3.207585
Adjusted R-squared	0.590316	S.D. dependent var		2296.450
S.E. of regression	1469.879	Akaike info criterion		17.48609
Sum squared resid	62655814	Schwarz criterion		17.57860
Log likelihood	-269.0344	Hannan-Quinn criter.		17.51625
F-statistic	44.22713	Durbin-Watson stat		2.070572
Prob(F-statistic)	0.000000			

4.4. HARGA CPO

Null Hypothesis: D(HARGA_CPO) has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-5.795847	0.0000
Test critical values: 1% level	-3.661661	
5% level	-2.960411	
10% level	-2.619160	

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

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(HARGA_CPO,2)
 Method: Least Squares
 Date: 02/16/19 Time: 20:10
 Sample (adjusted): 1987 2017
 Included observations: 31 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(HARGA_CPO(-1))	-1.021342	0.176220	-5.795847	0.0000
C	12.74216	25.37502	0.502154	0.6194
R-squared	0.536681	Mean dependent var		8.179570
Adjusted R-squared	0.520704	S.D. dependent var		203.9747
S.E. of regression	141.2141	Akaike info criterion		12.80077
Sum squared resid	578301.4	Schwarz criterion		12.89329
Log likelihood	-196.4120	Hannan-Quinn criter.		12.83093
F-statistic	33.59185	Durbin-Watson stat		1.948512
Prob(F-statistic)	0.000003			

4.5. HARGA SBO

Null Hypothesis: D(HARGA_SBO) has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-5.575234	0.0001
Test critical values: 1% level	-3.661661	
5% level	-2.960411	
10% level	-2.619160	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(HARGA_SBO,2)

Method: Least Squares

Date: 02/16/19 Time: 20:11

Sample (adjusted): 1987 2017

Included observations: 31 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(HARGA_SBO(-1))	-0.997384	0.178896	-5.575234	0.0000
C	13.37798	28.59381	0.467863	0.6434
R-squared	0.517336	Mean dependent var		8.160511
Adjusted R-squared	0.500693	S.D. dependent var		225.1833
S.E. of regression	159.1183	Akaike info criterion		13.03951
Sum squared resid	734240.2	Schwarz criterion		13.13203
Log likelihood	-200.1125	Hannan-Quinn criter.		13.06967
F-statistic	31.08323	Durbin-Watson stat		2.011241
Prob(F-statistic)	0.000005			

5. UJI KOINTEGRASI

Dependent Variable: EKS_INDIA

Method: Least Squares

Date: 02/16/19 Time: 20:14

Sample: 1985 2017

Included observations: 33

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-1543084.	271048.4	-5.693019	0.0000
PDB_PERKAPITA	1520.153	378.1381	4.020101	0.0004
KURS	92.98751	35.96076	2.585805	0.0152
HARGA_CPO	-4511.227	1735.818	-2.598906	0.0148
HARGA_SBO	5820.327	1500.689	3.878437	0.0006
R-squared	0.915022	Mean dependent var		1517517.
Adjusted R-squared	0.902882	S.D. dependent var		1678194.
S.E. of regression	522987.0	Akaike info criterion		29.31123
Sum squared resid	7.66E+12	Schwarz criterion		29.53797
Log likelihood	-478.6353	Hannan-Quinn criter.		29.38752
F-statistic	75.37440	Durbin-Watson stat		1.179934
Prob(F-statistic)	0.000000			

Null Hypothesis: ECT has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-3.542428	0.0131
Test critical values:		
1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(ECT)

Method: Least Squares

Date: 02/16/19 Time: 20:16

Sample (adjusted): 1986 2017

Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
ECT(-1)	-0.590140	0.166592	-3.542428	0.0013
C	2372.907	81465.62	0.029128	0.9770
R-squared	0.294927	Mean dependent var		3820.008
Adjusted R-squared	0.271425	S.D. dependent var		539891.7

S.E. of regression	460833.3	Akaike info criterion	28.97992
Sum squared resid	6.37E+12	Schwarz criterion	29.07153
Log likelihood	-461.6788	Hannan-Quinn criter.	29.01029
F-statistic	12.54880	Durbin-Watson stat	1.839985
Prob(F-statistic)	0.001319		

6. MODEL ECM

Dependent Variable: D(EKS_INDIA)

Method: Least Squares

Date: 02/16/19 Time: 20:20

Sample (adjusted): 1986 2017

Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-47271.60	101534.2	-0.465573	0.6454
D(PDB_PERKAPITA)	3123.504	1196.219	2.611146	0.0148
D(KURS)	26.79985	54.96072	0.487618	0.6299
D(HARGA_CPO)	-3244.168	1384.809	-2.342683	0.0271
D(HARGA_SBO)	3568.013	1231.357	2.897628	0.0075
ECT(-1)	-0.478877	0.179929	-2.661481	0.0132
R-squared	0.358992	Mean dependent var		130494.5
Adjusted R-squared	0.235721	S.D. dependent var		471925.6
S.E. of regression	412571.7	Akaike info criterion		28.86557
Sum squared resid	4.43E+12	Schwarz criterion		29.14039
Log likelihood	-455.8491	Hannan-Quinn criter.		28.95667
F-statistic	2.912221	Durbin-Watson stat		1.865186
Prob(F-statistic)	0.032265			

UJI ASUMSI KLASIK

1. UJI MULTIKOLINEARITAS

	EKS_INDIA	PDB_PERKAPITA	KURS	HARGA_CPO	HARGA_SBO
EKS_INDIA	1.000000	0.911393	0.781457	0.756298	0.813368
PDB_PERKAPITA	0.911393	1.000000	0.786698	0.719785	0.740269
KURS	0.781457	0.786698	1.000000	0.486507	0.503928
HARGA_CPO	0.756298	0.719785	0.486507	1.000000	0.972023
HARGA_SBO	0.813368	0.740269	0.503928	0.972023	1.000000

2. UJI HETEROKEDASTISITAS

Heteroskedasticity Test: White

F-statistic	0.571939	Prob. F(20,11)	0.8662
Obs*R-squared	16.31287	Prob. Chi-Square(20)	0.6970
Scaled explained SS	26.97481	Prob. Chi-Square(20)	0.1360

Test Equation:

Dependent Variable: RESID^2

Method: Least Squares

Date: 02/16/19 Time: 20:40

Sample: 1986 2017

Included observations: 32

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-1.65E+12	2.62E+12	-0.628117	0.5427
PDB_PERKAPITA	-1.36E+09	9.25E+09	-0.146779	0.8860
PDB_PERKAPITA^2	-2360241.	4008624.	-0.588791	0.5679
PDB_PERKAPITA*KURS	-199598.2	1128640.	-0.176848	0.8628
PDB_PERKAPITA*HARGA_CPO	1617235.	16595519	0.097450	0.9241
PDB_PERKAPITA*HARGA_SBO	9612755.	14461343	0.664721	0.5199
PDB_PERKAPITA*ECT(-1)	-1062.406	2669.601	-0.397964	0.6983
KURS	-5.91E+08	5.57E+08	-1.060838	0.3115
KURS^2	58916.04	75550.82	0.779820	0.4519
KURS*HARGA_CPO	446856.2	1307107.	0.341867	0.7389
KURS*HARGA_SBO	-395272.6	1405037.	-0.281325	0.7837
KURS*ECT(-1)	146.2977	243.5825	0.600608	0.5603
HARGA_CPO	1.68E+10	1.25E+10	1.344042	0.2060
HARGA_CPO^2	-4871481.	63242761	-0.077028	0.9400
HARGA_CPO*HARGA_SBO	-25792975	1.15E+08	-0.224693	0.8263
HARGA_CPO*ECT(-1)	-3582.183	9831.693	-0.364351	0.7225
HARGA_SBO	-3.26E+09	6.25E+09	-0.522422	0.6117
HARGA_SBO^2	10895447	49450404	0.220331	0.8296
HARGA_SBO*ECT(-1)	6381.362	8491.062	0.751539	0.4681
ECT(-1)	-2097759.	1748598.	-1.199680	0.2555
ECT(-1)^2	-0.362238	0.651365	-0.556121	0.5893

R-squared	0.509777	Mean dependent var	1.90E+11
Adjusted R-squared	-0.381537	S.D. dependent var	4.32E+11
S.E. of regression	5.08E+11	Akaike info criterion	56.98928
Sum squared resid	2.84E+24	Schwarz criterion	57.95117
Log likelihood	-890.8285	Hannan-Quinn criter.	57.30812
F-statistic	0.571939	Durbin-Watson stat	1.858113
Prob(F-statistic)	0.866239		

3. UJI AUTOKOLERASI

Breusch-Godfrey Serial Correlation LM Test:

F-statistic	1.733212	Prob. F(2,24)	0.1981
Obs*R-squared	4.038588	Prob. Chi-Square(2)	0.1327

Test Equation:

Dependent Variable: RESID

Method: Least Squares

Date: 02/16/19 Time: 20:43

Sample: 1986 2017

Included observations: 32

Presample missing value lagged residuals set to zero.

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	97583.37	268574.2	0.363339	0.7195
PDB_PERKAPITA	-53.28259	347.5995	-0.153287	0.8795
KURS	6.518575	33.58735	0.194078	0.8477
HARGA_CPO	-1071.681	1664.708	-0.643765	0.5258
HARGA_SBO	747.8570	1428.833	0.523404	0.6055
ECT(-1)	-1.492747	0.829134	-1.800368	0.0844
RESID(-1)	1.521365	0.817205	1.861669	0.0749
RESID(-2)	0.757936	0.489152	1.549489	0.1344

R-squared	0.126206	Mean dependent var	-2.18E-10
Adjusted R-squared	-0.128651	S.D. dependent var	442847.1
S.E. of regression	470471.8	Akaike info criterion	29.17318
Sum squared resid	5.31E+12	Schwarz criterion	29.53961
Log likelihood	-458.7708	Hannan-Quinn criter.	29.29464
F-statistic	0.495203	Durbin-Watson stat	1.988027
Prob(F-statistic)	0.828641		

Lampiran 4 : Hasil Regres Data Negara Belanda

BELANDA

4. UJI UNIT ROOT TEST TINGKAT LEVEL

6.1. HASIL UJI UNIT ROOT TEST EKSPOR

Null Hypothesis: EKS_BELANDA has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-2.422875	0.1437
Test critical values:		
1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(EKS_BELANDA)

Method: Least Squares

Date: 02/16/19 Time: 21:22

Sample (adjusted): 1986 2017

Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
EKS_BELANDA(-1)	-0.302931	0.125030	-2.422875	0.0216
C	179262.5	78759.82	2.276065	0.0301
R-squared	0.163654	Mean dependent var		11227.06
Adjusted R-squared	0.135776	S.D. dependent var		227124.3
S.E. of regression	211143.0	Akaike info criterion		27.41892
Sum squared resid	1.34E+12	Schwarz criterion		27.51053
Log likelihood	-436.7027	Hannan-Quinn criter.		27.44929
F-statistic	5.870323	Durbin-Watson stat		2.471714
Prob(F-statistic)	0.021645			

6.2. HASIL UJI UNIT ROOT TEST PDB TINGKAT LEVEL

Null Hypothesis: PDB_PERKAPITA has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-1.488536	0.5264
Test critical values: 1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(PDB_PERKAPITA)
 Method: Least Squares
 Date: 02/16/19 Time: 21:24
 Sample (adjusted): 1986 2017
 Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
PDB_PERKAPITA(-1)	-0.059915	0.040251	-1.488536	0.1470
C	3218.007	1462.540	2.200287	0.0356
R-squared	0.068778	Mean dependent var		1200.741
Adjusted R-squared	0.037737	S.D. dependent var		3171.434
S.E. of regression	3111.017	Akaike info criterion		18.98375
Sum squared resid	2.90E+08	Schwarz criterion		19.07536
Log likelihood	-301.7400	Hannan-Quinn criter.		19.01411
F-statistic	2.215738	Durbin-Watson stat		1.759539
Prob(F-statistic)	0.147047			

6.3. HASIL JI UNIT ROOT TEST KURS TINGKAT LEVEL

Null Hypothesis: KURS has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-0.825176	0.7982
Test critical values: 1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(KURS)
 Method: Least Squares
 Date: 02/16/19 Time: 21:25
 Sample (adjusted): 1986 2017
 Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
KURS(-1)	-0.052292	0.063371	-0.825176	0.4158
C	731.2016	494.3307	1.479175	0.1495
R-squared	0.022193	Mean dependent var		383.4466
Adjusted R-squared	-0.010400	S.D. dependent var		1454.059
S.E. of regression	1461.601	Akaike info criterion		17.47291
Sum squared resid	64088309	Schwarz criterion		17.56452
Log likelihood	-277.5666	Hannan-Quinn criter.		17.50328
F-statistic	0.680916	Durbin-Watson stat		2.342525
Prob(F-statistic)	0.415785			

6.4. HASIL UJI UNIT ROOT TEST HARGA CPO TINGKAT LEVEL

Null Hypothesis: HARGA_CPO has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-1.789076	0.3789
Test critical values: 1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(HARGA_CPO)
 Method: Least Squares
 Date: 02/16/19 Time: 21:28
 Sample (adjusted): 1986 2017
 Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
HARGA_CPO(-1)	-0.194434	0.108678	-1.789076	0.0837
C	112.4498	65.08275	1.727798	0.0943
R-squared	0.096407	Mean dependent var		4.639626
Adjusted R-squared	0.066287	S.D. dependent var		143.9306
S.E. of regression	139.0784	Akaike info criterion		12.76841
Sum squared resid	580283.8	Schwarz criterion		12.86002
Log likelihood	-202.2946	Hannan-Quinn criter.		12.79878
F-statistic	3.200792	Durbin-Watson stat		1.757654
Prob(F-statistic)	0.083705			

6.5. HASIL UJI UNIT ROOT TEST HARGA SBO TINGKAT LEVEL

Null Hypothesis: HARGA_SBO has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-1.652743	0.4449
Test critical values: 1% level	-3.653730	
5% level	-2.957110	
10% level	-2.617434	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(HARGA_SBO)

Method: Least Squares

Date: 02/16/19 Time: 21:29

Sample (adjusted): 1986 2017

Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
HARGA_SBO(-1)	-0.168027	0.101666	-1.652743	0.1088
C	114.6234	71.35243	1.606441	0.1187
R-squared	0.083453	Mean dependent var		5.798698
Adjusted R-squared	0.052902	S.D. dependent var		159.7819
S.E. of regression	155.4981	Akaike info criterion		12.99161
Sum squared resid	725389.4	Schwarz criterion		13.08321
Log likelihood	-205.8657	Hannan-Quinn criter.		13.02197
F-statistic	2.731559	Durbin-Watson stat		1.765853
Prob(F-statistic)	0.108812			

7. UJI DERAJAT INTEGRASI / UJI AKAR UNIT TINGKAT *First Difference*

7.1. EKSPOR

Null Hypothesis: D(EKS_BELANDA) has a unit root
 Exogenous: Constant
 Lag Length: 1 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-6.535852	0.0000
Test critical values:		
1% level	-3.670170	
5% level	-2.963972	
10% level	-2.621007	

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

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(EKS_BELANDA,2)
 Method: Least Squares
 Date: 02/16/19 Time: 21:33
 Sample (adjusted): 1988 2017
 Included observations: 30 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(EKS_BELANDA(-1))	-2.086729	0.319274	-6.535852	0.0000
D(EKS_BELANDA(-1),2)	0.453291	0.190071	2.384855	0.0244
C	37484.07	37111.26	1.010046	0.3214
R-squared	0.762135	Mean dependent var		-797.7052
Adjusted R-squared	0.744515	S.D. dependent var		394624.7
S.E. of regression	199465.2	Akaike info criterion		27.33931
Sum squared resid	1.07E+12	Schwarz criterion		27.47943
Log likelihood	-407.0896	Hannan-Quinn criter.		27.38413
F-statistic	43.25477	Durbin-Watson stat		2.011467
Prob(F-statistic)	0.000000			

7.2. PDB

Null Hypothesis: D(PDB_PERKAPITA) has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-4.831580	0.0005
Test critical values:		
1% level	-3.661661	
5% level	-2.960411	
10% level	-2.619160	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(PDB_PERKAPITA,2)

Method: Least Squares

Date: 02/16/19 Time: 21:35

Sample (adjusted): 1987 2017

Included observations: 31 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(PDB_PERKAPITA(-1))	-0.883738	0.182909	-4.831580	0.0000
C	982.2124	615.6904	1.595302	0.1215
R-squared	0.445975	Mean dependent var		-39.45856
Adjusted R-squared	0.426870	S.D. dependent var		4252.673
S.E. of regression	3219.500	Akaike info criterion		19.05418
Sum squared resid	3.01E+08	Schwarz criterion		19.14670
Log likelihood	-293.3398	Hannan-Quinn criter.		19.08434
F-statistic	23.34416	Durbin-Watson stat		1.963775
Prob(F-statistic)	0.000041			

7.3. KURS

Null Hypothesis: D(KURS) has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-6.650348	0.0000
Test critical values: 1% level	-3.661661	
5% level	-2.960411	
10% level	-2.619160	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(KURS,2)

Method: Least Squares

Date: 02/16/19 Time: 21:36

Sample (adjusted): 1987 2017

Included observations: 31 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(KURS(-1))	-1.208353	0.181698	-6.650348	0.0000
C	472.2501	273.5075	1.726644	0.0949
R-squared	0.603972	Mean dependent var		-3.207585
Adjusted R-squared	0.590316	S.D. dependent var		2296.450
S.E. of regression	1469.879	Akaike info criterion		17.48609
Sum squared resid	62655814	Schwarz criterion		17.57860
Log likelihood	-269.0344	Hannan-Quinn criter.		17.51625
F-statistic	44.22713	Durbin-Watson stat		2.070572
Prob(F-statistic)	0.000000			

7.4. HARGA CPO

Null Hypothesis: D(HARGA_CPO) has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-5.795847	0.0000
Test critical values: 1% level	-3.661661	
5% level	-2.960411	
10% level	-2.619160	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(HARGA_CPO,2)

Method: Least Squares

Date: 02/16/19 Time: 21:37

Sample (adjusted): 1987 2017

Included observations: 31 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(HARGA_CPO(-1))	-1.021342	0.176220	-5.795847	0.0000
C	12.74216	25.37502	0.502154	0.6194
R-squared	0.536681	Mean dependent var		8.179570
Adjusted R-squared	0.520704	S.D. dependent var		203.9747
S.E. of regression	141.2141	Akaike info criterion		12.80077
Sum squared resid	578301.4	Schwarz criterion		12.89329
Log likelihood	-196.4120	Hannan-Quinn criter.		12.83093
F-statistic	33.59185	Durbin-Watson stat		1.948512
Prob(F-statistic)	0.000003			

7.5. HARGA SBO

Null Hypothesis: D(HARGA_SBO) has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-5.575234	0.0001
Test critical values: 1% level	-3.661661	
5% level	-2.960411	
10% level	-2.619160	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(HARGA_SBO,2)

Method: Least Squares

Date: 02/16/19 Time: 21:38

Sample (adjusted): 1987 2017

Included observations: 31 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(HARGA_SBO(-1))	-0.997384	0.178896	-5.575234	0.0000
C	13.37798	28.59381	0.467863	0.6434
R-squared	0.517336	Mean dependent var		8.160511
Adjusted R-squared	0.500693	S.D. dependent var		225.1833
S.E. of regression	159.1183	Akaike info criterion		13.03951
Sum squared resid	734240.2	Schwarz criterion		13.13203
Log likelihood	-200.1125	Hannan-Quinn criter.		13.06967
F-statistic	31.08323	Durbin-Watson stat		2.011241
Prob(F-statistic)	0.000005			

8. UJI KOINTEGRASI

Dependent Variable: EKS_BELANDA

Method: Least Squares

Date: 02/16/19 Time: 21:40

Sample: 1985 2017

Included observations: 33

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-33529.77	84680.26	-0.395957	0.6951
PDB_PERKAPITA	14.22219	6.850307	2.076139	0.0472
KURS	5.459414	14.21612	0.384030	0.7039
HARGA_CPO	-772.2400	573.2143	-1.347210	0.1887
HARGA_SBO	762.3540	558.5952	1.364770	0.1832
R-squared	0.718357	Mean dependent var		554884.6
Adjusted R-squared	0.678122	S.D. dependent var		298532.3
S.E. of regression	169370.2	Akaike info criterion		27.05629
Sum squared resid	8.03E+11	Schwarz criterion		27.28303
Log likelihood	-441.4288	Hannan-Quinn criter.		27.13258
F-statistic	17.85414	Durbin-Watson stat		2.115494
Prob(F-statistic)	0.000000			

Null Hypothesis: ECT has a unit root

Exogenous: Constant

Lag Length: 1 (Automatic - based on SIC, maxlag=8)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-5.119151	0.0002
Test critical values:		
1% level	-3.661661	
5% level	-2.960411	
10% level	-2.619160	

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

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(ECT)

Method: Least Squares

Date: 02/16/19 Time: 21:42

Sample (adjusted): 1987 2017

Included observations: 31 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
ECT(-1)	-1.451498	0.283543	-5.119151	0.0000
D(ECT(-1))	0.309937	0.188981	1.640046	0.1122
C	3376.654	28981.58	0.116510	0.9081
R-squared	0.572617	Mean dependent var		-7161.677

Adjusted R-squared	0.542089	S.D. dependent var	237636.1
S.E. of regression	160806.2	Akaike info criterion	26.90555
Sum squared resid	7.24E+11	Schwarz criterion	27.04433
Log likelihood	-414.0361	Hannan-Quinn criter.	26.95079
F-statistic	18.75748	Durbin-Watson stat	1.868257
Prob(F-statistic)	0.000007		

9. MODEL ECM

Dependent Variable: D(EKS_BELANDA)

Method: Least Squares

Date: 02/16/19 Time: 21:45

Sample (adjusted): 1986 2017

Included observations: 32 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	44671.25	25990.56	1.718749	0.0975
D(PDB_PERKAPITA)	-18.10521	9.010351	-2.009378	0.0550
D(KURS)	-10.10873	16.74747	-0.603597	0.5513
D(HARGA_CPO)	-366.6822	423.5907	-0.865652	0.3946
D(HARGA_SBO)	357.0610	373.4414	0.956136	0.3478
ECT(-1)	-1.089330	0.173110	-6.292720	0.0000

R-squared	0.733521	Mean dependent var	11227.06
Adjusted R-squared	0.682275	S.D. dependent var	227124.3
S.E. of regression	128023.3	Akaike info criterion	26.52517
Sum squared resid	4.26E+11	Schwarz criterion	26.80000
Log likelihood	-418.4028	Hannan-Quinn criter.	26.61627
F-statistic	14.31374	Durbin-Watson stat	2.096753
Prob(F-statistic)	0.000001		

UJI ASUMSI KLASIK

1. UJI MULTIKOLINEARITAS

	EKS_BELANDA	PDB_PERKAPITA	KURS	HARGA_CPO	HARGA_SBO
EKS_BELANDA	1.000000	0.836030	0.675818	0.649606	0.713124
PDB_PERKAPITA	0.836030	1.000000	0.807961	0.794219	0.834076
KURS	0.675818	0.807961	1.000000	0.486507	0.503928
HARGA_CPO	0.649606	0.794219	0.486507	1.000000	0.972023
HARGA_SBO	0.713124	0.834076	0.503928	0.972023	1.000000

2. UJI HETEROKEDASTISITAS

Heteroskedasticity Test: White

F-statistic	0.696839	Prob. F(20,11)	0.7676
Obs*R-squared	17.88430	Prob. Chi-Square(20)	0.5950
Scaled explained SS	7.955197	Prob. Chi-Square(20)	0.9922

Test Equation:

Dependent Variable: RESID^2

Method: Least Squares

Date: 02/16/19 Time: 21:54

Sample: 1986 2017

Included observations: 32

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-1.24E+11	9.81E+10	-1.263157	0.2326
PDB_PERKAPITA	6215517.	9708299.	0.640227	0.5351
PDB_PERKAPITA^2	-435.8683	563.7224	-0.773197	0.4557
PDB_PERKAPITA*KURS	1545.645	2035.514	0.759339	0.4636
PDB_PERKAPITA*HARGA_CPO	62640.36	102033.4	0.613920	0.5518
PDB_PERKAPITA*HARGA_SBO	-45896.29	109073.3	-0.420784	0.6820
PDB_PERKAPITA*ECT(-1)	-30.29374	40.38027	-0.750211	0.4689
KURS	5165695.	16114245	0.320567	0.7545
KURS^2	-4213.966	3326.508	-1.266784	0.2314
KURS*HARGA_CPO	-156480.2	154851.2	-1.010520	0.3340
KURS*HARGA_SBO	163557.0	165248.1	0.989766	0.3436
KURS*ECT(-1)	63.71218	95.89728	0.664379	0.5201
HARGA_CPO	-7.05E+08	8.03E+08	-0.877813	0.3988
HARGA_CPO^2	2391591.	4522803.	0.528785	0.6075
HARGA_CPO*HARGA_SBO	-4852936.	8766230.	-0.553594	0.5909
HARGA_CPO*ECT(-1)	25.83530	2090.182	0.012360	0.9904
HARGA_SBO	8.32E+08	7.91E+08	1.052822	0.3150
HARGA_SBO^2	2111691.	4954356.	0.426229	0.6782
HARGA_SBO*ECT(-1)	698.1755	2191.930	0.318521	0.7561
ECT(-1)	98464.00	253316.4	0.388700	0.7049
ECT(-1)^2	-1.225205	0.738369	-1.659339	0.1253

R-squared	0.558884	Mean dependent var	2.47E+10
Adjusted R-squared	-0.243144	S.D. dependent var	2.91E+10
S.E. of regression	3.24E+10	Akaike info criterion	51.48834
Sum squared resid	1.16E+22	Schwarz criterion	52.45023
Log likelihood	-802.8134	Hannan-Quinn criter.	51.80718
F-statistic	0.696839	Durbin-Watson stat	1.999356
Prob(F-statistic)	0.767619		

3. UJI AUTOKOLERASI

Breusch-Godfrey Serial Correlation LM Test:

F-statistic	1.824469	Prob. F(2,24)	0.1830
Obs*R-squared	4.223165	Prob. Chi-Square(2)	0.1210

Test Equation:

Dependent Variable: RESID

Method: Least Squares

Date: 02/16/19 Time: 21:55

Sample: 1986 2017

Included observations: 32

Presample missing value lagged residuals set to zero.

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-25314.77	91737.59	-0.275948	0.7850
PDB_PERKAPITA	-3.938347	8.651392	-0.455227	0.6530
KURS	9.036854	16.98861	0.531936	0.5997
HARGA_CPO	471.7409	716.7145	0.658199	0.5167
HARGA_SBO	-243.9450	654.3140	-0.372826	0.7126
ECT(-1)	1.049110	2.276188	0.460906	0.6490
RESID(-1)	-1.250561	2.270945	-0.550679	0.5869
RESID(-2)	-0.300039	0.337920	-0.887899	0.3834

R-squared	0.131974	Mean dependent var	1.31E-10
Adjusted R-squared	-0.121200	S.D. dependent var	159595.1
S.E. of regression	168990.1	Akaike info criterion	27.12539
Sum squared resid	6.85E+11	Schwarz criterion	27.49182
Log likelihood	-426.0062	Hannan-Quinn criter.	27.24685
F-statistic	0.521277	Durbin-Watson stat	1.882262
Prob(F-statistic)	0.809586		