L A M P I R A N

LAMPIRAN : DATA PENELITIAN

Tahun	Bulan	CAR	LDR	BOPO	ROA	NPL
2013	Januari	30.77%	78.84%	78.23%	3.75%	5.13%
	Februari	30.15%	80.24%	77.31%	3.74%	5.17%
	Maret	29.39%	81.43%	77.37%	3.77%	5.25%
	April	27.96%	82.51%	76.68%	3.81%	5.21%
	Mei	27.63%	83.55%	76.66%	3.87%	5.10%
	Juni	26.73%	84.56%	76.57%	3.80%	4.98%
	Juli	26.79%	85.44%	77.37%	3.70%	4.97%
	Agustus	27.11%	84.37%	77.50%	3.57%	5.22%
	September	27.20%	83.88%	77.18%	3.62%	5.12%
	Oktober	27.50%	83.41%	76.93%	3.64%	5.13%
	November	28.41%	86.06%	76.97%	3.61%	5.01%
	Desember	28.48%	84.26%	77.65%	3.38%	4.45%
2014	Januari	31.81%	83.65%	81.14%	4.57%	4.96%
	Februari	30.95%	81.36%	80.65%	3.38%	4.98%
	Maret	29.81%	82.57%	79.64%	3.51%	4.96%
	April	28.74%	83.37%	79.91%	3.38%	5.06%
	Mei	28.52%	84.71%	79.73%	3.40%	5.15%
	Juni	28.27%	85.60%	79.87%	3.36%	5.08%
	Juli	28.20%	85.82%	80.52%	3.17%	5.25%
	Agustus	28.18%	84.41%	80.62%	3.15%	5.38%
	September	27.94%	84.13%	80.32%	3.18%	5.30%
	Oktober	27.88%	82.96%	80.16%	3.16%	5.40%
	November	27.87%	82.10%	80.07%	3.10%	5.35%
	Desember	28.02%	79.40%	80.30%	2.99%	4.76%
2015	Januari	30.75%	79.14%	82.74%	2.85%	5.32%
	Februari	30.42%	80.06%	82.75%	2.73%	5.51%
	Maret	29.45%	80.46%	81.63%	3.01%	5.46%
	April	28.81%	80.92%	82.21%	2.87%	5.53%
	Mei	28.11%	81.24%	82.06%	2.87%	5.71%
	Juni	27.91%	82.38%	82.13%	2.89%	5.71%
	Juli	28.02%	81.56%	82.90%	2.70%	6.01%
	Agustus	27.89%	81.02%	82.45%	2.74%	6.05%
	September	28.11%	80.52%	82.34%	2.73%	6.05%
	Oktober	28.21%	79.49%	81.99%	2.77%	6.13%
	November	28.53%	79.10%	81.79%	2.76%	6.13%
	Desember	28.99%	76.70%	81.77%	2.69%	5.40%

2016	Januari	31.54%	76.52%	82.23%	2.97%	5.94%
	Februari	31.38%	77.18%	82.36%	2.70%	6.22%
	Maret	31.05%	77.55%	81.31%	2.86%	6.16%
	April	29.98%	77.85%	81.57%	2.78%	6.33%
	Mei	29.62%	78.21%	81.57%	2.76%	6.46%
	Juni	29.69%	79.83%	82.42%	2.61%	6.20%
	Juli	29.37%	78.35%	82.57%	2.54%	6.56%
	Agustus	29.40%	78.05%	82.07%	2.61%	6.54%
	September	29.47%	77.89%	82.00%	2.59%	6.56%
	Oktober	29.70%	77.42%	81.51%	2.66%	6.64%
	November	29.78%	76.99%	81.13%	2.69%	6.54%

Sumber : *Bank Indonesia, 2016.*

UNIT ROOT TEST TINGKAT LEVEL

Return On Asset (ROA)

Null Hypothesis: ROA has a unit root
Exogenous: Constant
Lag Length: 2 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		-1.158592	0.6836
Test critical values:	1% level	-3.592462	
	5% level	-2.931404	
	10% level	-2.603944	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(ROA)
Method: Least Squares
Date: 12/31/18 Time: 04:23
Sample (adjusted): 2013M04 2016M10
Included observations: 43 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
ROA(-1)	-0.091688	0.079137	-1.158592	0.2537
D(ROA(-1))	-0.732461	0.158398	-4.624184	0.0000
D(ROA(-2))	-0.280005	0.151794	-1.844637	0.0727
C	0.002334	0.002509	0.930011	0.3581

R-squared	0.445297	Mean dependent var	-0.000260
Adjusted R-squared	0.402628	S.D. dependent var	0.002838
S.E. of regression	0.002194	Akaike info criterion	-9.318050
Sum squared resid	0.000188	Schwarz criterion	-9.154218
Log likelihood	204.3381	Hannan-Quinn criter.	-9.257634
F-statistic	10.43597	Durbin-Watson stat	2.105168
Prob(F-statistic)	0.000036		

Capital Adequacy Ratio (CAR)

Null Hypothesis: CAR has a unit root
Exogenous: Constant
Lag Length: 1 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		-3.035891	0.0393
Test critical values:	1% level	-3.588509	
	5% level	-2.929734	
	10% level	-2.603064	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(CAR)
Method: Least Squares
Date: 12/31/18 Time: 04:20
Sample (adjusted): 2013M03 2016M10
Included observations: 44 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
CAR(-1)	-0.323917	0.106696	-3.035891	0.0042
D(CAR(-1))	0.288260	0.148218	1.944845	0.0587
C	0.093597	0.030823	3.036611	0.0041

R-squared	0.197657	Mean dependent var	8.86E-05
Adjusted R-squared	0.158518	S.D. dependent var	0.009200
S.E. of regression	0.008440	Akaike info criterion	-6.645993
Sum squared resid	0.002920	Schwarz criterion	-6.524344
Log likelihood	149.2118	Hannan-Quinn criter.	-6.600879
F-statistic	5.050156	Durbin-Watson stat	2.115772
Prob(F-statistic)	0.010949		

Loan to Deposit Ratio (LDR)

Null Hypothesis: LDR has a unit root
Exogenous: Constant
Lag Length: 0 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		-0.926445	0.7707
Test critical values:	1% level	-3.584743	
	5% level	-2.928142	
	10% level	-2.602225	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(LDR)
Method: Least Squares
Date: 12/31/18 Time: 04:20
Sample (adjusted): 2013M02 2016M10
Included observations: 45 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LDR(-1)	-0.057121	0.061656	-0.926445	0.3594
C	0.045751	0.050192	0.911534	0.3671

R-squared	0.019570	Mean dependent var	-0.000722
Adjusted R-squared	-0.003231	S.D. dependent var	0.011276
S.E. of regression	0.011295	Akaike info criterion	-6.085561
Sum squared resid	0.005485	Schwarz criterion	-6.005264
Log likelihood	138.9251	Hannan-Quinn criter.	-6.055627
F-statistic	0.858300	Durbin-Watson stat	1.633496
Prob(F-statistic)	0.359386		

Biaya Operasional dan Pendapatan Operasional (BOPO)

Null Hypothesis: BOPO has a unit root
Exogenous: Constant
Lag Length: 4 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		-2.219296	0.2028
Test critical values:	1% level	-3.600987	
	5% level	-2.935001	
	10% level	-2.605836	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(BOPO)
Method: Least Squares
Date: 12/31/18 Time: 04:19
Sample (adjusted): 2013M06 2016M10
Included observations: 41 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
BOPO(-1)	-0.135810	0.061195	-2.219296	0.0330
D(BOPO(-1))	-0.022997	0.149428	-0.153898	0.8786
D(BOPO(-2))	-0.404631	0.150949	-2.680577	0.0111
D(BOPO(-3))	-0.080535	0.147370	-0.546479	0.5882
D(BOPO(-4))	-0.342641	0.150089	-2.282917	0.0286
C	0.111820	0.049349	2.265930	0.0297

R-squared	0.317028	Mean dependent var	0.001112
Adjusted R-squared	0.219460	S.D. dependent var	0.008105
S.E. of regression	0.007161	Akaike info criterion	-6.905912
Sum squared resid	0.001795	Schwarz criterion	-6.655146
Log likelihood	147.5712	Hannan-Quinn criter.	-6.814597
F-statistic	3.249317	Durbin-Watson stat	1.975868
Prob(F-statistic)	0.016322		

Non Performing Loan (NPL)

Null Hypothesis: NPL has a unit root
Exogenous: Constant
Lag Length: 2 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		0.172472	0.9676
Test critical values:	1% level	-3.592462	
	5% level	-2.931404	
	10% level	-2.603944	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(NPL)
Method: Least Squares
Date: 12/31/18 Time: 04:22
Sample (adjusted): 2013M04 2016M10
Included observations: 43 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
NPL(-1)	0.012004	0.069600	0.172472	0.8640
D(NPL(-1))	-0.424628	0.163802	-2.592329	0.0133
D(NPL(-2))	-0.339808	0.157864	-2.152539	0.0376
C	-0.000112	0.003859	-0.029030	0.9770

R-squared	0.196090	Mean dependent var	0.000309
Adjusted R-squared	0.134250	S.D. dependent var	0.002553
S.E. of regression	0.002375	Akaike info criterion	-9.159035
Sum squared resid	0.000220	Schwarz criterion	-8.995203
Log likelihood	200.9193	Hannan-Quinn criter.	-9.098619
F-statistic	3.170955	Durbin-Watson stat	1.957049
Prob(F-statistic)	0.034819		

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

Return On Asset (ROA)

Null Hypothesis: D(ROA) has a unit root
Exogenous: Constant
Lag Length: 1 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		-7.758871	0.0000
Test critical values:	1% level	-3.592462	
	5% level	-2.931404	
	10% level	-2.603944	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(ROA,2)
Method: Least Squares
Date: 12/31/18 Time: 04:23
Sample (adjusted): 2013M04 2016M10
Included observations: 43 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(ROA(-1))	-2.096895	0.270258	-7.758871	0.0000
D(ROA(-1),2)	0.305613	0.150818	2.026372	0.0494
C	-0.000546	0.000343	-1.591371	0.1194

R-squared	0.821397	Mean dependent var	-2.33E-06
Adjusted R-squared	0.812467	S.D. dependent var	0.005087
S.E. of regression	0.002203	Akaike info criterion	-9.330722
Sum squared resid	0.000194	Schwarz criterion	-9.207848
Log likelihood	203.6105	Hannan-Quinn criter.	-9.285410
F-statistic	91.98033	Durbin-Watson stat	2.108697
Prob(F-statistic)	0.000000		

Capital Adequacy Ratio (CAR)

Null Hypothesis: D(CAR) has a unit root
Exogenous: Constant
Lag Length: 0 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		-5.728807	0.0000
Test critical values:	1% level	-3.588509	
	5% level	-2.929734	
	10% level	-2.603064	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(CAR,2)
Method: Least Squares
Date: 12/31/18 Time: 04:20
Sample (adjusted): 2013M03 2016M10
Included observations: 44 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(CAR(-1))	-0.869515	0.151779	-5.728807	0.0000
C	0.000102	0.001391	0.073298	0.9419

R-squared	0.438647	Mean dependent var	0.000191
Adjusted R-squared	0.425281	S.D. dependent var	0.012173
S.E. of regression	0.009228	Akaike info criterion	-6.488673
Sum squared resid	0.003577	Schwarz criterion	-6.407574
Log likelihood	144.7508	Hannan-Quinn criter.	-6.458598
F-statistic	32.81922	Durbin-Watson stat	2.007811
Prob(F-statistic)	0.000001		

Loan to Deposit Ratio (LDR)

Null Hypothesis: D(LDR) has a unit root
Exogenous: Constant
Lag Length: 5 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		-4.172834	0.0022
Test critical values:	1% level	-3.610453	
	5% level	-2.938987	
	10% level	-2.607932	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(LDR,2)
Method: Least Squares
Date: 12/31/18 Time: 04:21
Sample (adjusted): 2013M08 2016M10
Included observations: 39 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(LDR(-1))	-1.590349	0.381120	-4.172834	0.0002
D(LDR(-1),2)	0.627247	0.322186	1.946845	0.0604
D(LDR(-2),2)	0.720027	0.282715	2.546829	0.0159
D(LDR(-3),2)	0.332311	0.234190	1.418982	0.1656
D(LDR(-4),2)	0.451072	0.200623	2.248351	0.0316
D(LDR(-5),2)	0.366314	0.164563	2.225980	0.0332
C	-0.002303	0.001774	-1.298156	0.2035

R-squared	0.605041	Mean dependent var	0.000164
Adjusted R-squared	0.530987	S.D. dependent var	0.015481
S.E. of regression	0.010602	Akaike info criterion	-6.094413
Sum squared resid	0.003597	Schwarz criterion	-5.795825
Log likelihood	125.8411	Hannan-Quinn criter.	-5.987282
F-statistic	8.170190	Durbin-Watson stat	1.976213
Prob(F-statistic)	0.000021		

Biaya Operasional dan Pendapatan Operasional (BOPO)

Null Hypothesis: D(BOPO) has a unit root
Exogenous: Constant
Lag Length: 3 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		-5.235732	0.0001
Test critical values:	1% level	-3.600987	
	5% level	-2.935001	
	10% level	-2.605836	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(BOPO,2)
Method: Least Squares
Date: 12/31/18 Time: 04:19
Sample (adjusted): 2013M06 2016M10
Included observations: 41 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(BOPO(-1))	-1.962383	0.374806	-5.235732	0.0000
D(BOPO(-1),2)	0.903430	0.305769	2.954621	0.0055
D(BOPO(-2),2)	0.459269	0.225674	2.035097	0.0493
D(BOPO(-3),2)	0.359141	0.157866	2.274980	0.0290
C	0.002334	0.001265	1.845201	0.0732

R-squared	0.606345	Mean dependent var	-7.07E-05
Adjusted R-squared	0.562606	S.D. dependent var	0.011403
S.E. of regression	0.007541	Akaike info criterion	-6.823031
Sum squared resid	0.002047	Schwarz criterion	-6.614059
Log likelihood	144.8721	Hannan-Quinn criter.	-6.746935
F-statistic	13.86268	Durbin-Watson stat	1.916162
Prob(F-statistic)	0.000001		

Non Performing Loan (NPL)

Null Hypothesis: D(NPL) has a unit root
Exogenous: Constant
Lag Length: 1 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		-7.215321	0.0000
Test critical values:	1% level	-3.592462	
	5% level	-2.931404	
	10% level	-2.603944	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(NPL,2)
Method: Least Squares
Date: 12/31/18 Time: 04:22
Sample (adjusted): 2013M04 2016M10
Included observations: 43 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(NPL(-1))	-1.745884	0.241969	-7.215321	0.0000
D(NPL(-1),2)	0.332063	0.149496	2.221216	0.0321
C	0.000550	0.000366	1.502839	0.1407

R-squared	0.692298	Mean dependent var	-1.40E-05
Adjusted R-squared	0.676913	S.D. dependent var	0.004128
S.E. of regression	0.002346	Akaike info criterion	-9.204785
Sum squared resid	0.000220	Schwarz criterion	-9.081910
Log likelihood	200.9029	Hannan-Quinn criter.	-9.159472
F-statistic	44.99795	Durbin-Watson stat	1.953979
Prob(F-statistic)	0.000000		

UJI KOINTEGRASI

Dependent Variable: ROA
Method: Least Squares
Date: 12/31/18 Time: 04:24
Sample (adjusted): 2013M01 2016M10
Included observations: 46 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.047070	0.026995	1.743617	0.0887
CAR	0.152144	0.029665	5.128648	0.0000
LDR	0.072399	0.018636	3.884894	0.0004
BOPO	-0.138675	0.019839	-6.989872	0.0000
NPL	-0.126077	0.083793	-1.504620	0.1401

R-squared	0.847613	Mean dependent var	0.031357
Adjusted R-squared	0.832746	S.D. dependent var	0.004615
S.E. of regression	0.001888	Akaike info criterion	-9.604749
Sum squared resid	0.000146	Schwarz criterion	-9.405984
Log likelihood	225.9092	Hannan-Quinn criter.	-9.530291
F-statistic	57.01299	Durbin-Watson stat	2.049052
Prob(F-statistic)	0.000000		

UJI UNIT AKAR (ECT) TINGKAT LEVEL

Null Hypothesis: ECT has a unit root
Exogenous: Constant
Lag Length: 0 (Automatic - based on AIC, maxlag=7)

		t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic		-6.720798	0.0000
Test critical values:	1% level	-3.584743	
	5% level	-2.928142	
	10% level	-2.602225	

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

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(ECT)
Method: Least Squares
Date: 12/31/18 Time: 04:26
Sample (adjusted): 2013M02 2016M10
Included observations: 45 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
ECT(-1)	-1.025330	0.152561	-6.720798	0.0000
C	-1.82E-06	0.000275	-0.006643	0.9947

R-squared	0.512301	Mean dependent var	-1.24E-05
Adjusted R-squared	0.500959	S.D. dependent var	0.002608
S.E. of regression	0.001842	Akaike info criterion	-9.711975
Sum squared resid	0.000146	Schwarz criterion	-9.631679
Log likelihood	220.5194	Hannan-Quinn criter.	-9.682042
F-statistic	45.16913	Durbin-Watson stat	1.998821
Prob(F-statistic)	0.000000		

UJI *Error Corretion Model* (ECM)

Dependent Variable: D(ROA)
Method: Least Squares
Date: 12/31/18 Time: 04:27
Sample (adjusted): 2013M02 2016M10
Included observations: 45 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.000110	0.000270	-0.407234	0.6861
D(CAR)	0.159917	0.043752	3.655101	0.0008
D(LDR)	0.055790	0.025364	2.199562	0.0338
D(BOPO)	-0.080847	0.050545	-1.599524	0.1178
D(NPL)	0.027861	0.120618	0.230984	0.8185
ECT(-1)	-0.942467	0.152880	-6.164761	0.0000

R-squared	0.641856	Mean dependent var	-0.000233
Adjusted R-squared	0.595941	S.D. dependent var	0.002776
S.E. of regression	0.001765	Akaike info criterion	-9.718274
Sum squared resid	0.000121	Schwarz criterion	-9.477385
Log likelihood	224.6612	Hannan-Quinn criter.	-9.628473
F-statistic	13.97898	Durbin-Watson stat	1.823286
Prob(F-statistic)	0.000000		

UJI ASUMSI KLASIK

Uji Autokorelasi / *LM Test*

Breusch-Godfrey Serial Correlation LM Test:

F-statistic	0.196553	Prob. F(2,39)	0.8224
Obs*R-squared	0.459037	Prob. Chi-Square(2)	0.7949

Test Equation:
Dependent Variable: RESID
Method: Least Squares
Date: 12/31/18 Time: 04:25
Sample: 2013M01 2016M10
Included observations: 46
Presample missing value lagged residuals set to zero.

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.006772	0.029917	0.226368	0.8221
CAR	-0.006009	0.032017	-0.187683	0.8521
LDR	-0.003551	0.020050	-0.177113	0.8603
BOPO	-0.002231	0.020562	-0.108518	0.9141
NPL	-0.006335	0.086284	-0.073419	0.9418
RESID(-1)	-0.039442	0.166711	-0.236591	0.8142
RESID(-2)	-0.102833	0.170000	-0.604900	0.5487

R-squared	0.009979	Mean dependent var	-1.74E-17
Adjusted R-squared	-0.142332	S.D. dependent var	0.001802
S.E. of regression	0.001926	Akaike info criterion	-9.527822
Sum squared resid	0.000145	Schwarz criterion	-9.249551
Log likelihood	226.1399	Hannan-Quinn criter.	-9.423580
F-statistic	0.065518	Durbin-Watson stat	2.005169
Prob(F-statistic)	0.998760		

Uji Heterokedasitisitas

Heteroskedasticity Test: ARCH

F-statistic	2.507240	Prob. F(1,43)	0.1207
Obs*R-squared	2.479294	Prob. Chi-Square(1)	0.1154

Test Equation:
Dependent Variable: RESID^2
Method: Least Squares
Date: 12/31/18 Time: 04:25
Sample (adjusted): 2013M02 2016M10
Included observations: 45 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.49E-06	1.67E-06	1.490846	0.1433
RESID^2(-1)	0.234695	0.148220	1.583427	0.1207

R-squared	0.055095	Mean dependent var	3.25E-06
Adjusted R-squared	0.033121	S.D. dependent var	1.09E-05
S.E. of regression	1.07E-05	Akaike info criterion	-20.00772
Sum squared resid	4.93E-09	Schwarz criterion	-19.92742
Log likelihood	452.1737	Hannan-Quinn criter.	-19.97779
F-statistic	2.507240	Durbin-Watson stat	2.014743
Prob(F-statistic)	0.120652		

Uji Multikolinearitas

	CAR	LDR	BOPO	NPL
CAR	1.000000	-0.603353	0.478175	0.317668
LDR	-0.603353	1.000000	-0.635097	-0.748518
BOPO	0.478175	-0.635097	1.000000	0.668401
NPL	0.317668	-0.748518	0.668401	1.000000