

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan beberapa temuan dalam penelitian ini, peneliti mengambil kesimpulan sebagai berikut :

1. Dari hasil estimasi ECM menunjukkan bahwa spesifikasi modelnya benar (valid) dan dapat memberikan indikasi adanya hubungan jangka pendek maupun jangka panjang.
2. Dalam jangka pendek utang luar negeri pemerintah (FA) tidak berpengaruh terhadap pertumbuhan ekonomi di Indonesia, namun dalam jangka panjang utang luar negeri pemerintah (FA) berpengaruh positif terhadap pertumbuhan ekonomi di Indonesia.
3. Dalam jangka pendek ekspor (X) tidak berpengaruh terhadap pertumbuhan ekonomi di Indonesia, namun dalam jangka panjang ekspor (X) berpengaruh terhadap pertumbuhan ekonomi di Indonesia.
4. Dalam jangka pendek tingkat partisipasi angkatan kerja (TPAK) tidak berpengaruh terhadap pertumbuhan ekonomi di Indonesia, namun dalam jangka panjang tingkat partisipasi angkatan kerja (TPAK) berpengaruh positif terhadap pertumbuhan ekonomi di Indonesia.

5.2 Saran

Berdasarkan hasil kesimpulan diatas, dapat dikemukakan saran untuk menentukan faktor-faktor apa saja yang dapat digunakan untuk meningkatkan pertumbuhan ekonomi di Indonesia secara lebih efektif. Langkah-langkah yang perlu dilakukan oleh pemerintah selaku pembuat kebijakan adalah :

1. Pemerintah hendaknya lebih berhati-hati dan selektif dalam pengambilan keputusan untuk menetapkan arah kebijakan yang akan ditempuh. Penetapan kebijakan yang tepat terkait faktor-faktor yang mampu mempengaruhi dan menstimulasi pertumbuhan ekonomi kearah yang lebih baik sebaiknya perlu melihat sumber daripada faktor-faktor tersebut agar dapat dimanfaatkan sebesar-besarnya bagi kesejahteraan masyarakat.
2. Penarikan utang luar negeri pemerintah sebaiknya tetap memanfaatkan utang yang bersifat lunak (*soft loan*) dalam arti tingkat suku bunga rendah dan memiliki jangka waktu/*grace period* yang panjang serta manajemen pemanfaatan utang luar negeri tersebut harus benar-benar didasarkan atas upaya untuk meningkatkan perekonomian (PDB) dan penggunaannya diarahkan bagi kegiatan-kegiatan yang bersifat produktif (*repayment capacity*). Pijakan untuk mengelola utang luar negeri pemerintah, sebagaimana disusun oleh Bappenas menggunakan indikator *debt to GDP ratio* dan *debt to export ratio* serta *debt service ratio*. Manajemen utang luar negeri tersebut untuk mengkondisikan pengelolaan utang luar negeri dalam batas-batas yang aman yaitu melalui indikator $DSR \leq 20\%$. Artinya bahwa utang luar negeri masih dianggap *manageable* jika $\leq 20\%$ dari

keseluruhan total ekspor dan masih untuk membayar cicilan bunga utang

+ utang luar negeri, $DSR = \frac{\text{Bunga+Cicilan Utang}}{\text{Total Ekspor}}$. Penggunaan indikator

ini lebih dilatar belakangi untuk memberi legitimasi bahwa utang luar negeri pemerintah Indonesia berada dalam batas aman. Tujuannya agar pemerintah dapat melakukan penambahan *stock* utang dan memberikan argumentasi bahwa penambahan utang tersebut tidak membahayakan keuangan negara (*Kusfiardi, 2005 : 58*).

3. Pemerintah selayaknya melaksanakan strategi ekspor untuk mendorong ekonomi meningkat lebih baik sebab secara internal kredibilitas eksportir dalam negeri masih rendah, dalam strategi ini secara kolektif pemerintah dan swasta harus saling bersinergi. Pada satu sisi pemerintah harus menyiapkan diri sebagai negara yang efisien, efektif dengan pola debirokratisasi yang ramah terhadap sektor swasta. Pada sisi lain, swasta menyiapkan diri untuk tampil sebagai sektor dengan perusahaan yang efisien, berdaya saing, mempunyai jaringan luas di pasar internasional, anti proteksi, dan tidak melakukan perburuan rente ekonomi melalui lobi politik. Dengan strategi daya saing ekspor seperti ini, kapasitas produksi nasional akan meningkat. Pasar menjadi lebih luas daripada sekedar penetrasi pasar dalam negeri sehingga mampu menyerap tenaga kerja lebih banyak. Peningkatan kesejahteraan dapat dicapai melalui strategi ini, kombinasi swasta dan negara guna meningkatkan kualitas produk di pasar dalam negeri dan mampu meningkatkan *competitiveness* di pasar global (*Didik, J. Rachbini dalam Kompas, Rabu, 13 Agustus 2008*).

4. Dalam usaha menciptakan perluasan kesempatan kerja pemerintah secara aktif menyusun kebijakan pokok diantaranya : (a) Penyempurnaan regulasi yang berkaitan dengan aturan main ketenagakerjaan, (b) Penyempurnaan dari sisi permintaan (*demand side*), (c) Kebijakan perluasan kesempatan kerja berkaitan dengan adanya pengangguran (*supply side*), (d) meningkatkan kemampuan SDM melalui instrument pendidikan formal dan non-formal agar dapat memanfaatkan teknologi informasi dan mampu mendorong produktivitas tenaga kerja, serta (e) Menyempurnakan program pendukung pasar kerja.

4. Dalam usaha menciptakan perluasan kesempatan kerja pemerintah secara aktif menyusun kebijakan pokok diantaranya : (a) Penyempurnaan regulasi yang berkaitan dengan aturan main ketenagakerjaan, (b) Penyempurnaan dari sisi permintaan (*demand side*), (c) Kebijakan perluasan kesempatan kerja berkaitan dengan adanya pengangguran (*supply side*), (d) meningkatkan kemampuan SDM melalui instrument pendidikan formal dan non-formal agar dapat memanfaatkan teknologi informasi dan mampu mendorong produktivitas tenaga kerja, serta (e) Menyempurnakan program pendukung pasar kerja.

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LAMPIRAN 1

**DATA : LAJU PERTUMBUHAN EKONOMI,
UTANG LUAR NEGERI PEMERINTAH, EKSPOR,
DAN TINGKAT PARTISIPASI ANGKATAN KERJA
DI INDONESIA TAHUN 1983 - 2007**

**DATA LAJU PERTUMBUHAN EKONOMI, UTANG LUAR NEGERI
PEMERINTAH, EKSPOR MIGAS DAN NON-MIGAS, DAN TINGKAT
PARTISIPASI ANGKATAN KERJA DI INDONESIA
PERIODE TAHUN 1983 – 2007**

Tahun	g	FA	X	TPAK
1983	6.13	19953	21145.90	55.60
1984	6.13	21589	21887.40	55.80
1985	2.44	25321	18586.70	55.90
1986	3.99	31521	14805.00	57.30
1987	13.44	38417	17135.60	57.40
1988	5.78	38983	19218.50	57.60
1989	7.46	39577	22158.90	56.80
1990	7.24	45100	25675.30	57.30
1991	6.95	45725	29142.40	57.10
1992	6.46	48769	33967.00	57.30
1993	6.50	52462	36823.00	56.60
1994	7.54	58618	40053.40	58.00
1995	8.22	59588	45418.00	56.60
1996	7.82	55303	49814.80	58.30
1997	4.70	53865	53443.60	66.30
1998	-13.13	67315	48847.60	66.90
1999	0.79	75720	48665.40	67.20
2000	4.92	74917	62124.00	67.76
2001	3.16	71377	56320.90	68.60
2002	4.31	74661	57158.80	67.76
2003	4.78	81666	61058.20	67.86
2004	5.03	82725	71584.60	67.54
2005	5.68	80072	85660.00	68.02
2006	5.48	80755	100798.60	66.16
2007	6.35	80609	114100.90	66.99

Keterangan :

g = *growth*/ Laju Pertumbuhan Ekonomi (dalam satuan persen)

FA = *foreign aid*/ Utang luar Negeri Pemerintah (dalam satuan juta US\$)

X = Ekspor Migas dan Non-migas (dalam satuan Juta US\$)

TPAK = Tingkat Partisipasi Angkatan Kerja (dalam satuan persen)



**UJI AKAR-AKAR UNIT (uji stasioner pada derajat nol)
VARIABEL PERTUMBUHAN g (growth)**

1. Tanpa Trend (DF)

ADF Test Statistic	-3.047930	1% Critical Value*	-3.7497
		5% Critical Value	-2.9969
		10% Critical Value	-2.6381

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(G)

Method: Least Squares

Date: 03/06/09 Time: 14:29

Sample(adjusted): 1985 2007

Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
G(-1)	-0.829061	0.272008	-3.047930	0.0064
D(G(-1))	0.107110	0.222283	0.481861	0.6351
C	4.182767	1.685745	2.481257	0.0221
R-squared	0.381392	Mean dependent var		0.009565
Adjusted R-squared	0.319531	S.D. dependent var		5.694035
S.E. of regression	4.697041	Akaike info criterion		6.052850
Sum squared resid	441.2438	Schwarz criterion		6.200958
Log likelihood	-66.60777	F-statistic		6.165318
Durbin-Watson stat	1.955436	Prob(F-statistic)		0.008206

2. Dengan Trend (ADF)

ADF Test Statistic	-3.117445	1% Critical Value*	-4.4167
		5% Critical Value	-3.6219
		10% Critical Value	-3.2474

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(G)

Method: Least Squares

Date: 03/06/09 Time: 14:30

Sample(adjusted): 1985 2007

Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
G(-1)	-0.904364	0.290098	-3.117445	0.0057
D(G(-1))	0.147810	0.229969	0.642740	0.5281
C	6.204209	3.041563	2.039809	0.0555
@TREND(1983)	-0.126270	0.157503	-0.801700	0.4326
R-squared	0.401633	Mean dependent var		0.009565
Adjusted R-squared	0.307154	S.D. dependent var		5.694035
S.E. of regression	4.739565	Akaike info criterion		6.106539
Sum squared resid	426.8061	Schwarz criterion		6.304016
Log likelihood	-66.22519	F-statistic		4.251029
Durbin-Watson stat	1.951969	Prob(F-statistic)		0.018585

VARIABEL FA (Foreign Aid)

1. Tanpa Trend (DF)

ADF Test Statistic	-1.595337	1% Critical Value*	-3.7497
		5% Critical Value	-2.9969
		10% Critical Value	-2.6381

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(AID_2)

Method: Least Squares

Date: 03/06/09 Time: 14:48

Sample(adjusted): 1985 2007

Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AID_2(-1)	-0.073847	0.046290	-1.595337	0.1263
D(AID_2(-1))	0.171000	0.208925	0.818473	0.4227
C	6301.017	2848.036	2.212408	0.0387
R-squared	0.145067	Mean dependent var		2566.087
Adjusted R-squared	0.059574	S.D. dependent var		4239.615
S.E. of regression	4111.391	Akaike info criterion		19.60202
Sum squared resid	3.38E+08	Schwarz criterion		19.75013
Log likelihood	-222.4232	F-statistic		1.696824
Durbin-Watson stat	1.765083	Prob(F-statistic)		0.208603

2. Dengan Trend (ADF)

ADF Test Statistic	-4.310430	1% Critical Value*	-4.4167
		5% Critical Value	-3.6219
		10% Critical Value	-3.2474

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(AID_2)

Method: Least Squares

Date: 03/06/09 Time: 14:49

Sample(adjusted): 1985 2007

Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AID_2(-1)	-0.888211	0.206061	-4.310430	0.0004
D(AID_2(-1))	0.635945	0.195774	3.248364	0.0042
C	20729.93	4191.723	4.945444	0.0001
@TREND(1983)	2347.265	585.3299	4.010158	0.0007
R-squared	0.536970	Mean dependent var		2566.087
Adjusted R-squared	0.463860	S.D. dependent var		4239.615
S.E. of regression	3104.313	Akaike info criterion		19.07574
Sum squared resid	1.83E+08	Schwarz criterion		19.27322
Log likelihood	-215.3710	F-statistic		7.344686
Durbin-Watson stat	1.526238	Prob(F-statistic)		0.001832

VARIABEL X (Ekspor)

1. Tanpa Trend (DF)

ADF Test Statistic	1.849223	1% Critical Value*	-3.7497
		5% Critical Value	-2.9969
		10% Critical Value	-2.6381

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(X)

Method: Least Squares

Date: 03/06/09 Time: 14:51

Sample(adjusted): 1985 2007

Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
X(-1)	0.117107	0.063328	1.849223	0.0793
D(X(-1))	0.155183	0.257721	0.602135	0.5539
C	-1723.356	2569.348	-0.670737	0.5101
R-squared	0.309553	Mean dependent var		4009.283
Adjusted R-squared	0.240509	S.D. dependent var		5909.776
S.E. of regression	5150.299	Akaike info criterion		20.05260
Sum squared resid	5.31E+08	Schwarz criterion		20.20071
Log likelihood	-227.6050	F-statistic		4.483376
Durbin-Watson stat	1.941755	Prob(F-statistic)		0.024621

2. Dengan Trend (ADF)

ADF Test Statistic	-0.538059	1% Critical Value*	-4.4167
		5% Critical Value	-3.6219
		10% Critical Value	-3.2474

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(X)

Method: Least Squares

Date: 03/06/09 Time: 14:52

Sample(adjusted): 1985 2007

Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
X(-1)	-0.103762	0.192846	-0.538059	0.5968
D(X(-1))	0.310279	0.285153	1.088111	0.2902
C	-1461.929	2549.071	-0.573514	0.5730
@TREND(1983)	692.2980	571.7250	1.210893	0.2408
R-squared	0.359019	Mean dependent var		4009.283
Adjusted R-squared	0.257811	S.D. dependent var		5909.776
S.E. of regression	5091.294	Akaike info criterion		20.06522
Sum squared resid	4.93E+08	Schwarz criterion		20.26270
Log likelihood	-226.7501	F-statistic		3.547353
Durbin-Watson stat	1.964090	Prob(F-statistic)		0.034174

VARIABEL TPAK (Tingkat Partisipasi Angkatan Kerja)

1. Tanpa Trend (DF)

ADF Test Statistic	-0.958132	1% Critical Value*	-3.7497
		5% Critical Value	-2.9969
		10% Critical Value	-2.6381

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(TPAK)

Method: Least Squares

Date: 03/06/09 Time: 14:54

Sample(adjusted): 1985 2007

Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
TPAK(-1)	-0.074108	0.077346	-0.958132	0.3494
D(TPAK(-1))	0.096277	0.220859	0.435922	0.6676
C	5.005089	4.764176	1.050568	0.3060
R-squared	0.047799	Mean dependent var		0.486522
Adjusted R-squared	-0.047421	S.D. dependent var		1.852663
S.E. of regression	1.896082	Akaike info criterion		4.238564
Sum squared resid	71.90251	Schwarz criterion		4.386672
Log likelihood	-45.74348	F-statistic		0.501986
Durbin-Watson stat	1.983365	Prob(F-statistic)		0.612753

2. Dengan Trend (ADF)

ADF Test Statistic	-1.946423	1% Critical Value*	-4.4167
		5% Critical Value	-3.6219
		10% Critical Value	-3.2474

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(TPAK)

Method: Least Squares

Date: 03/06/09 Time: 14:54

Sample(adjusted): 1985 2007

Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
TPAK(-1)	-0.325594	0.167278	-1.946423	0.0665
D(TPAK(-1))	0.236158	0.227349	1.038744	0.3120
C	17.61295	8.795106	2.002586	0.0597
@TREND(1983)	0.216294	0.128999	1.676710	0.1100
R-squared	0.170532	Mean dependent var		0.486522
Adjusted R-squared	0.039564	S.D. dependent var		1.852663
S.E. of regression	1.815644	Akaike info criterion		4.187528
Sum squared resid	62.63470	Schwarz criterion		4.385006
Log likelihood	-44.15658	F-statistic		1.302086
Durbin-Watson stat	2.027461	Prob(F-statistic)		0.302747



**UJI DERAJAT INTEGRASI I (uji stasioner pada derajat satu)
VARIABEL PERTUMBUHAN g (growth)**

1. Tanpa Trend (DF)

ADF Test Statistic	-5.167064	1% Critical Value*	-3.7667
		5% Critical Value	-3.0038
		10% Critical Value	-2.6417

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(G,2)

Method: Least Squares

Date: 03/06/09 Time: 14:31

Sample(adjusted): 1986 2007

Included observations: 22 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(G(-1))	-1.770088	0.342571	-5.167064	0.0001
D(G(-1),2)	0.354650	0.211916	1.673542	0.1106
C	0.158199	1.147913	0.137814	0.8918
R-squared	0.702050	Mean dependent var		0.207273
Adjusted R-squared	0.670687	S.D. dependent var		9.382175
S.E. of regression	5.384038	Akaike info criterion		6.330878
Sum squared resid	550.7694	Schwarz criterion		6.479656
Log likelihood	-66.63966	F-statistic		22.38454
Durbin-Watson stat	2.128511	Prob(F-statistic)		0.000010

2. Dengan Trend (ADF)

ADF Test Statistic	-5.025128	1% Critical Value*	-4.4415
		5% Critical Value	-3.6330
		10% Critical Value	-3.2535

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(G,2)

Method: Least Squares

Date: 03/06/09 Time: 14:32

Sample(adjusted): 1986 2007

Included observations: 22 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(G(-1))	-1.770045	0.352239	-5.025128	0.0001
D(G(-1),2)	0.354628	0.217841	1.627917	0.1209
C	0.166033	2.774945	0.059833	0.9529
@TREND(1983)	-0.000580	0.186037	-0.003119	0.9975
R-squared	0.702050	Mean dependent var		0.207273
Adjusted R-squared	0.652392	S.D. dependent var		9.382175
S.E. of regression	5.531571	Akaike info criterion		6.421787
Sum squared resid	550.7691	Schwarz criterion		6.620158
Log likelihood	-66.63965	F-statistic		14.13762
Durbin-Watson stat	2.128549	Prob(F-statistic)		0.000056

VARIABEL FA (Foreign Aid)

1. Tanpa Trend (DF)

ADF Test Statistic	-6.306382	1% Critical Value*	-3.7667
		5% Critical Value	-3.0038
		10% Critical Value	-2.6417

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(AID_2,2)

Method: Least Squares

Date: 03/06/09 Time: 14:49

Sample(adjusted): 1986 2007

Included observations: 22 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(AID_2(-1))	-1.368298	0.216970	-6.306382	0.0000
D(AID_2(-1),2)	0.686423	0.169640	4.046354	0.0007
C	3533.314	912.8346	3.870706	0.0010
R-squared	0.676709	Mean dependent var	-176.2727	
Adjusted R-squared	0.642678	S.D. dependent var	5476.995	
S.E. of regression	3273.952	Akaike info criterion	19.15151	
Sum squared resid	2.04E+08	Schwarz criterion	19.30029	
Log likelihood	-207.6666	F-statistic	19.88525	
Durbin-Watson stat	1.989903	Prob(F-statistic)	0.000022	

2. Dengan Trend (ADF)

ADF Test Statistic	-6.987800	1% Critical Value*	-4.4415
		5% Critical Value	-3.6330
		10% Critical Value	-3.2535

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(AID_2,2)

Method: Least Squares

Date: 03/06/09 Time: 14:50

Sample(adjusted): 1986 2007

Included observations: 22 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(AID_2(-1))	-1.466112	0.209810	-6.987800	0.0000
D(AID_2(-1),2)	0.724657	0.160303	4.520543	0.0003
C	6532.695	1794.188	3.641032	0.0019
@TREND(1983)	-202.5681	106.5013	-1.902025	0.0733
R-squared	0.730811	Mean dependent var	-176.2727	
Adjusted R-squared	0.685946	S.D. dependent var	5476.995	
S.E. of regression	3069.336	Akaike info criterion	19.05928	
Sum squared resid	1.70E+08	Schwarz criterion	19.25765	
Log likelihood	-205.6520	F-statistic	16.28917	
Durbin-Watson stat	2.251547	Prob(F-statistic)	0.000023	

VARIABEL X (Ekspor)

1. Tanpa Trend (DF)

ADF Test Statistic	-1.804565	1% Critical Value*	-3.7667
		5% Critical Value	-3.0038
		10% Critical Value	-2.6417

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(X,2)

Method: Least Squares

Date: 03/06/09 Time: 14:52

Sample(adjusted): 1986 2007

Included observations: 22 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(X(-1))	-0.496614	0.275199	-1.804565	0.0870
D(X(-1),2)	-0.093843	0.251341	-0.373368	0.7130
C	2597.385	1475.680	1.760128	0.0945
R-squared	0.274278	Mean dependent var		754.6818
Adjusted R-squared	0.197886	S.D. dependent var		6159.917
S.E. of regression	5516.872	Akaike info criterion		20.19513
Sum squared resid	5.78E+08	Schwarz criterion		20.34391
Log likelihood	-219.1465	F-statistic		3.590411
Durbin-Watson stat	2.076671	Prob(F-statistic)		0.047568

2. Dengan Trend (ADF)

ADF Test Statistic	-2.563919	1% Critical Value*	-4.4415
		5% Critical Value	-3.6330
		10% Critical Value	-3.2535

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(X,2)

Method: Least Squares

Date: 03/06/09 Time: 14:53

Sample(adjusted): 1986 2007

Included observations: 22 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(X(-1))	-0.806651	0.314617	-2.563919	0.0195
D(X(-1),2)	0.039126	0.250025	0.156489	0.8774
C	-1466.660	2694.181	-0.544381	0.5929
@TREND(1983)	376.9698	213.5285	1.765431	0.0944
R-squared	0.381392	Mean dependent var		754.6818
Adjusted R-squared	0.278290	S.D. dependent var		6159.917
S.E. of regression	5233.066	Akaike info criterion		20.12635
Sum squared resid	4.93E+08	Schwarz criterion		20.32472
Log likelihood	-217.3898	F-statistic		3.699189
Durbin-Watson stat	1.993978	Prob(F-statistic)		0.031067

VARIABEL TPAK (Tingkat Partisipasi Angkatan Kerja)

1. Tanpa Trend (DF)

ADF Test Statistic	-3.315756	1% Critical Value*	-3.7667
		5% Critical Value	-3.0038
		10% Critical Value	-2.6417

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(TPAK,2)

Method: Least Squares

Date: 03/06/09 Time: 14:55

Sample(adjusted): 1986 2007

Included observations: 22 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(TPAK(-1))	-1.047314	0.315860	-3.315756	0.0036
D(TPAK(-1),2)	0.118910	0.237004	0.501720	0.6216
C	0.537506	0.452127	1.188839	0.2491
R-squared	0.475722	Mean dependent var		0.033182
Adjusted R-squared	0.420535	S.D. dependent var		2.593911
S.E. of regression	1.974552	Akaike info criterion		4.324684
Sum squared resid	74.07826	Schwarz criterion		4.473462
Log likelihood	-44.57152	F-statistic		8.620173
Durbin-Watson stat	1.955128	Prob(F-statistic)		0.002167

2. Dengan Trend (ADF)

ADF Test Statistic	-3.228366	1% Critical Value*	-4.4415
		5% Critical Value	-3.6330
		10% Critical Value	-3.2535

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(TPAK,2)

Method: Least Squares

Date: 03/06/09 Time: 14:55

Sample(adjusted): 1986 2007

Included observations: 22 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(TPAK(-1))	-1.046703	0.324221	-3.228366	0.0047
D(TPAK(-1),2)	0.115777	0.243848	0.474790	0.6406
C	0.708522	1.030246	0.687721	0.5004
@TREND(1983)	-0.012711	0.068365	-0.185926	0.8546
R-squared	0.476727	Mean dependent var		0.033182
Adjusted R-squared	0.389515	S.D. dependent var		2.593911
S.E. of regression	2.026714	Akaike info criterion		4.413674
Sum squared resid	73.93626	Schwarz criterion		4.612046
Log likelihood	-44.55042	F-statistic		5.466298
Durbin-Watson stat	1.954525	Prob(F-statistic)		0.007532



**UJI DERAJAT INTEGRASI II (uji stasioner pada derajat dua)
VARIABEL X (Ekspor)**

1. Tanpa Trend (DF)

ADF Test Statistic	-5.417312	1% Critical Value*	-3.7856
		5% Critical Value	-3.0114
		10% Critical Value	-2.6457

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(X,3)

Method: Least Squares

Date: 03/06/09 Time: 14:53

Sample(adjusted): 1987 2007

Included observations: 21 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(X(-1),2)	-1.938159	0.357771	-5.417312	0.0000
D(X(-1),3)	0.384697	0.213228	1.804158	0.0880
C	1543.761	1252.869	1.232180	0.2337
R-squared	0.745433	Mean dependent var		-64.53810
Adjusted R-squared	0.717147	S.D. dependent var		10536.61
S.E. of regression	5603.779	Akaike info criterion		20.23183
Sum squared resid	5.65E+08	Schwarz criterion		20.38105
Log likelihood	-209.4343	F-statistic		26.35410
Durbin-Watson stat	2.087224	Prob(F-statistic)		0.000004

2. Dengan Trend (ADF)

ADF Test Statistic	-5.304665	1% Critical Value*	-4.4691
		5% Critical Value	-3.6454
		10% Critical Value	-3.2602

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(X,3)

Method: Least Squares

Date: 03/06/09 Time: 14:54

Sample(adjusted): 1987 2007

Included observations: 21 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(X(-1),2)	-1.968937	0.371171	-5.304665	0.0001
D(X(-1),3)	0.402073	0.220878	1.820337	0.0864
C	150.4045	3158.935	0.047612	0.9626
@TREND(1983)	101.1540	209.6458	0.482500	0.6356
R-squared	0.748872	Mean dependent var		-64.53810
Adjusted R-squared	0.704555	S.D. dependent var		10536.61
S.E. of regression	5727.159	Akaike info criterion		20.31347
Sum squared resid	5.58E+08	Schwarz criterion		20.51243
Log likelihood	-209.2914	F-statistic		16.89816
Durbin-Watson stat	2.098611	Prob(F-statistic)		0.000024

VARIABEL TPAK (Tingkat Partisipasi Angkatan Kerja)

1. Tanpa Trend (DF)

ADF Test Statistic	-5.651817	1% Critical Value*	-3.7856
		5% Critical Value	-3.0114
		10% Critical Value	-2.6457

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(TPAK,3)

Method: Least Squares

Date: 03/06/09 Time: 14:56

Sample(adjusted): 1987 2007

Included observations: 21 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(TPAK(-1),2)	-2.036419	0.360312	-5.651817	0.0000
D(TPAK(-1),3)	0.442117	0.218469	2.023705	0.0581
C	-0.076716	0.498785	-0.153806	0.8795
R-squared	0.757796	Mean dependent var		0.066190
Adjusted R-squared	0.730885	S.D. dependent var		4.402877
S.E. of regression	2.284051	Akaike info criterion		4.621342
Sum squared resid	93.90400	Schwarz criterion		4.770559
Log likelihood	-45.52409	F-statistic		28.15878
Durbin-Watson stat	2.142790	Prob(F-statistic)		0.000003

2. Dengan Trend (ADF)

ADF Test Statistic	-5.477571	1% Critical Value*	-4.4691
		5% Critical Value	-3.6454
		10% Critical Value	-3.2602

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(TPAK,3)

Method: Least Squares

Date: 03/06/09 Time: 14:56

Sample(adjusted): 1987 2007

Included observations: 21 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(TPAK(-1),2)	-2.040012	0.372430	-5.477571	0.0000
D(TPAK(-1),3)	0.443367	0.225094	1.969699	0.0654
C	0.040946	1.296252	0.031588	0.9752
@TREND(1983)	-0.008419	0.085173	-0.098844	0.9224
R-squared	0.757935	Mean dependent var		0.066190
Adjusted R-squared	0.715218	S.D. dependent var		4.402877
S.E. of regression	2.349594	Akaike info criterion		4.716005
Sum squared resid	93.85006	Schwarz criterion		4.914962
Log likelihood	-45.51806	F-statistic		17.74305
Durbin-Watson stat	2.140624	Prob(F-statistic)		0.000018



**Presentasi hasil uji ECM Engel-Granger dan
Asumsi Klasik pada Derajat Integrasi yang berbeda :**

Dependent Variable: DG
Method: Least Squares
Date: 03/19/09 Time: 20:45
Sample(adjusted): 1985 2007
Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	9.722323	3.516216	2.764996	0.0144
DFA	-0.000274	0.000229	-1.194372	0.2509
D2X	0.000246	0.000153	1.605572	0.1292
D2TPAK	-0.164488	0.359309	-0.457790	0.6537
FA(-1)	-0.882851	0.187649	-4.704811	0.0003
DX(-1)	-0.882753	0.187518	-4.707572	0.0003
DTPAK(-1)	-2.454005	0.529649	-4.633266	0.0003
ECT	0.882780	0.187617	4.705229	0.0003
R-squared	0.815876	Mean dependent var		0.009565
Adjusted R-squared	0.729951	S.D. dependent var		5.694035
S.E. of regression	2.958976	Akaike info criterion		5.275772
Sum squared resid	131.3331	Schwarz criterion		5.670726
Log likelihood	-52.67137	F-statistic		9.495242
Durbin-Watson stat	2.419388	Prob(F-statistic)		0.000154

Estimation Command:

LS DG C DFA D2X D2TPAK FA(-1) DX(-1) DTPAK(-1) ECT

Estimation Equation:

DG = C(1) + C(2)*DFA + C(3)*D2X + C(4)*D2TPAK + C(5)*FA(-1) + C(6)*DX(-1) + C(7)*DTPAK(-1) + C(8)*ECT

Substituted Coefficients:

DG = 9.72232289 - 0.0002736602242*DFA + 0.0002455936185*D2X - 0.1644879329*D2TPAK - 0.8828513474*FA(-1) - 0.882752616*DX(-1) - 2.454005119*DTPAK(-1) + 0.8827795352*ECT



AUX.1

Dependent Variable: DFA
Method: Least Squares
Date: 03/26/09 Time: 20:50
Sample(adjusted): 1985 2007
Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	7816.418	3301.630	2.367442	0.0309
D2X	-0.016754	0.166847	-0.100415	0.9213
D2TPAK	-421.5814	377.6121	-1.116440	0.2807
FA(-1)	-280.9713	192.3186	-1.460968	0.1634
DX(-1)	-281.0786	192.1566	-1.462758	0.1629
DTPAK(-1)	292.9981	573.2434	0.511123	0.6162
ECT	280.9096	192.2871	1.460886	0.1634
R-squared	0.578242	Mean dependent var		2566.087
Adjusted R-squared	0.420083	S.D. dependent var		4239.615
S.E. of regression	3228.562	Akaike info criterion		19.24325
Sum squared resid	1.67E+08	Schwarz criterion		19.58884
Log likelihood	-214.2974	F-statistic		3.656081
Durbin-Watson stat	2.041936	Prob(F-statistic)		0.017684

AUX.2

Dependent Variable: D2X
Method: Least Squares
Date: 03/26/09 Time: 20:52
Sample(adjusted): 1985 2007
Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-6870.147	5484.169	-1.252723	0.2283
DFA	-0.037591	0.374359	-0.100415	0.9213
D2TPAK	-304.8749	582.2794	-0.523589	0.6077
FA(-1)	247.9126	300.3611	0.825382	0.4213
DX(-1)	246.7692	300.2013	0.822012	0.4232
DTPAK(-1)	-983.5900	829.9876	-1.185066	0.2533
ECT	-247.7330	300.3171	-0.824905	0.4216
R-squared	0.543011	Mean dependent var		546.1217
Adjusted R-squared	0.371640	S.D. dependent var		6100.841
S.E. of regression	4836.087	Akaike info criterion		20.05139
Sum squared resid	3.74E+08	Schwarz criterion		20.39697
Log likelihood	-223.5910	F-statistic		3.168626
Durbin-Watson stat	1.936320	Prob(F-statistic)		0.030357

AUX.3

Dependent Variable: D2TPAK
 Method: Least Squares
 Date: 03/26/09 Time: 20:53
 Sample(adjusted): 1985 2007
 Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.608484	2.413241	0.666525	0.5146
DFA	-0.000171	0.000154	-1.116440	0.2807
D2X	-5.53E-05	0.000106	-0.523589	0.6077
FA(-1)	-0.013590	0.130518	-0.104125	0.9184
DX(-1)	-0.013649	0.130426	-0.104646	0.9180
DTPAK(-1)	-0.832342	0.304150	-2.736618	0.0146
ECT	0.013582	0.130496	0.104083	0.9184
R-squared	0.520084	Mean dependent var		0.027391
Adjusted R-squared	0.340115	S.D. dependent var		2.534425
S.E. of regression	2.058797	Akaike info criterion		4.527911
Sum squared resid	67.81834	Schwarz criterion		4.873496
Log likelihood	-45.07098	F-statistic		2.889858
Durbin-Watson stat	2.136962	Prob(F-statistic)		0.041924

AUX.4

Dependent Variable: FA(-1)
 Method: Least Squares
 Date: 03/26/09 Time: 20:54
 Sample(adjusted): 1985 2007
 Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	13.62589	3.215772	4.237206	0.0006
DFA	-0.000419	0.000287	-1.460968	0.1634
D2X	0.000165	0.000200	0.825382	0.4213
D2TPAK	-0.049827	0.478537	-0.104125	0.9184
DX(-1)	-0.999301	0.000296	-3379.209	0.0000
DTPAK(-1)	-0.562926	0.691463	-0.814108	0.4275
ECT	0.999830	5.86E-05	17066.14	0.0000
R-squared	1.000000	Mean dependent var		56697.65
Adjusted R-squared	1.000000	S.D. dependent var		18974.20
S.E. of regression	3.942176	Akaike info criterion		5.827133
Sum squared resid	248.6521	Schwarz criterion		6.172718
Log likelihood	-60.01203	F-statistic		84942769
Durbin-Watson stat	1.633913	Prob(F-statistic)		0.000000

AUX.5

Dependent Variable: DX(-1)
 Method: Least Squares
 Date: 03/26/09 Time: 21:33
 Sample(adjusted): 1985 2007
 Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	13.63062	3.219287	4.234049	0.0006
DFA	-0.000420	0.000287	-1.462758	0.1629
D2X	0.000164	0.000200	0.822012	0.4232
D2TPAK	-0.050112	0.478870	-0.104646	0.9180
FA(-1)	-1.000698	0.000296	-3379.209	0.0000
DTPAK(-1)	-0.563879	0.691918	-0.814950	0.4271
ECT	1.000528	0.000260	3854.593	0.0000
R-squared	1.000000	Mean dependent var		3463.161
Adjusted R-squared	1.000000	S.D. dependent var		5583.329
S.E. of regression	3.944931	Akaike info criterion		5.828530
Sum squared resid	248.9997	Schwarz criterion		6.174115
Log likelihood	-60.02810	F-statistic		7344782.
Durbin-Watson stat	1.634910	Prob(F-statistic)		0.000000

AUX.6

Dependent Variable: DTPAK(-1)
 Method: Least Squares
 Date: 03/26/09 Time: 20:57
 Sample(adjusted): 1985 2007
 Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.893933	1.644576	0.543565	0.5942
DFA	5.48E-05	0.000107	0.511123	0.6162
D2X	-8.20E-05	6.92E-05	-1.185066	0.2533
D2TPAK	-0.383055	0.139974	-2.736618	0.0146
FA(-1)	-0.070659	0.086793	-0.814108	0.4275
DX(-1)	-0.070679	0.086729	-0.814950	0.4271
ECT	0.070657	0.086778	0.814227	0.4275
R-squared	0.586385	Mean dependent var		0.459130
Adjusted R-squared	0.431279	S.D. dependent var		1.852011
S.E. of regression	1.396668	Akaike info criterion		3.751846
Sum squared resid	31.21091	Schwarz criterion		4.097431
Log likelihood	-36.14623	F-statistic		3.780547
Durbin-Watson stat	1.552225	Prob(F-statistic)		0.015478

AUX.7

Dependent Variable: ECT

Method: Least Squares

Date: 03/26/09 Time: 21:02

Sample(adjusted): 1985 2007

Included observations: 23 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-13.62559	3.217012	-4.235480	0.0006
DFA	0.000419	0.000287	1.460886	0.1634
D2X	-0.000165	0.000200	-0.824905	0.4216
D2TPAK	0.049816	0.478618	0.104083	0.9184
FA(-1)	1.000170	5.86E-05	17066.14	0.0000
DX(-1)	0.999471	0.000259	3854.593	0.0000
DTPAK(-1)	0.563100	0.691577	0.814227	0.4275
R-squared	1.000000	Mean dependent var		60156.24
Adjusted R-squared	1.000000	S.D. dependent var		22176.27
S.E. of regression	3.942847	Akaike info criterion		5.827473
Sum squared resid	248.7366	Schwarz criterion		6.173058
Log likelihood	-60.01594	F-statistic		1.16E+08
Durbin-Watson stat	1.634032	Prob(F-statistic)		0.000000



LAMPIRAN 7

UJI AUTOKORELASI

Hasil Uji Autokorelasi :

Uji autokorelasi :

Breusch-Godfrey Serial Correlation LM Test:

F-statistic	1.331794	Probability	0.310004
Obs*R-squared	5.745021	Probability	0.124696

Test Equation:

Dependent Variable: RESID

Method: Least Squares

Date: 03/19/09 Time: 21:13

Presample missing value lagged residuals set to zero.

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-3.152457	3.897079	-0.808928	0.4343
DFA	4.36E-05	0.000235	0.185581	0.8559
D2X	1.02E-05	0.000157	0.065267	0.9490
D2TPAK	0.048877	0.374276	0.130590	0.8983
FA(-1)	0.285429	0.244686	1.166513	0.2661
DX(-1)	0.285285	0.244528	1.166676	0.2660
DTPAK(-1)	0.361980	0.559395	0.647091	0.5298
ECT	-0.285395	0.244648	-1.166552	0.2661
RESID(-1)	-0.674429	0.362673	-1.859608	0.0876
RESID(-2)	-0.317023	0.288194	-1.100033	0.2929
RESID(-3)	-0.298645	0.304666	-0.980236	0.3463
R-squared	0.249784	Mean dependent var	5.28E-12	
Adjusted R-squared	-0.375397	S.D. dependent var	2.443294	
S.E. of regression	2.865429	Akaike info criterion	5.249248	
Sum squared resid	98.52823	Schwarz criterion	5.792310	
Log likelihood	-49.36635	F-statistic	0.399538	
Durbin-Watson stat	2.046868	Prob(F-statistic)	0.922126	



Hasil Uji Heteroskedastisitas :

Uji heteroskedasticity :

White Heteroskedasticity Test:

F-statistic	1.223937	Probability	0.399684
Obs*R-squared	15.67957	Probability	0.333332

Test Equation:

Dependent Variable: RESID^2

Method: Least Squares

Date: 03/19/09 Time: 20:52

Sample: 1985 2007

Included observations: 23

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	10.04519	38.97811	0.257714	0.8031
DFA	-0.001078	0.001820	-0.592647	0.5698
DFA^2	5.32E-07	4.13E-07	1.288286	0.2337
D2X	0.001689	0.001092	1.546734	0.1605
D2X^2	8.07E-08	6.54E-08	1.235132	0.2518
D2TPAK	-2.340436	4.717173	-0.496152	0.6331
D2TPAK^2	0.559038	1.276021	0.438111	0.6729
FA(-1)	1.461583	1.134328	1.288501	0.2336
FA(-1)^2	-3.09E-08	5.77E-08	-0.535706	0.6067
DX(-1)	1.458163	1.136636	1.282875	0.2355
DX(-1)^2	3.79E-08	1.93E-07	0.196225	0.8493
DTPAK(-1)	3.124227	9.887106	0.315990	0.7601
DTPAK(-1)^2	-1.839924	1.363862	-1.349055	0.2143
ECT	-1.461908	1.134721	-1.288341	0.2336
ECT^2	2.85E-08	4.51E-08	0.633303	0.5442
R-squared	0.681720	Mean dependent var	5.710133	
Adjusted R-squared	0.124731	S.D. dependent var	13.34676	
S.E. of regression	12.48667	Akaike info criterion	8.135495	
Sum squared resid	1247.335	Schwarz criterion	8.876035	
Log likelihood	-78.55820	F-statistic	1.223937	
Durbin-Watson stat	2.957866	Prob(F-statistic)	0.399684	