

Lampiran 1

Sampel Penelitian Perusahaan Manufaktur Tahun 2011 – 2015

No	Kode	Perusahaan
1	AISA	PT Tiga Pilar Sejahtera Food Tbk
2	AKPI	PT Argha Karya Prima Industry Tbk
3	ALDO	PT Allindo Naratama Tbk
4	AMFG	PT Asahimas Flat Glass Tbk
5	ASII	PT Astra International Tbk
6	BRAM	PT Indo Kordsa Tbk
7	CEKA	PT Cahaya Kalbar Tbk
8	CPIN	PT Charoen Pokphand Indonesia Tbk
9	DVLA	PT Darya-Varia Laboratoria Tbk
10	GGRM	PT Gudang Garam Tbk
11	ICBP	PT Indofood Sukses Makmur Tbk
12	INAI	PT Indal Aluminium Industry Tbk
13	INDF	PT Indofood Sukses Makmur Tbk
14	INDR	PT Indo-Rama Synthetics Tbk
15	INDS	PT Indospring Tbk
16	IPOL	PT Idopoly Swakarsa Industry Tbk
17	JPFA	PT Japfa Comfeed Indonesia Tbk
18	KAEF	PT Kimia Farma Tbk
19	KBLI	PT KMI Wire and Cable Tbk
20	KLBF	PT Kalbe Farma Tbk
21	MYOR	PT Mayora Indah Tbk
22	PBRX	PT Pan Brothers Tbk
23	RICY	PT Ricky Putra Globalindo Tbk
24	ROTI	PT Nippon Indosari Corpindo Tbk
25	SKLT	PT Sekar Laut Tbk
26	SMCB	PT Holcim Indonesia Tbk
27	SMGR	PT Semen Gresik (Persero) Tbk
28	SMSM	PT Selamat Sempurna Tbk
29	TCID	PT Mandom Indonesia Tbk
30	TKIM	PT Pabrik Kertas Tjiwi Kimia Tbk
31	TOTO	PT Suryo Toto Indonesia Tbk
32	TRST	PT Trias Sentosa Tbk
33	TSPC	PT Tempo Scan Pacific Tbk
34	ULTJ	PT Ultrajaya Milk Industry & Trading Company Tbk

Lampiran 2

Statistik Deskriptif

	PBV	SIZE	ROA	DER	TAG
Mean	2.197540	6.700419	0.087378	0.847792	0.176055
Median	1.769200	6.542300	0.082000	0.725900	0.157200
Maximum	7.314600	8.304700	0.324600	2.463900	0.588500
Minimum	0.094400	5.388800	0.000500	0.108200	-0.031900
Std. Dev.	1.790075	0.619289	0.060476	0.502663	0.120565
Skewness	0.947218	0.507714	0.903807	0.937107	0.975094
Kurtosis	3.037388	2.803372	4.047620	3.507761	3.687581
Jarque-Bera	23.78563	7.087133	28.91794	24.97957	28.32852
Probability	0.000007	0.028910	0.000001	0.000004	0.000001
Sum	349.4088	1065.367	13.89310	134.7990	27.99270
Sum Sq. Dev.	506.2901	60.59606	0.577868	39.92183	2.296673
Observations	159	159	159	159	159

Dependent Variable : PBV

Method : Least Squares

Sample : 159

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-3.552380	1.220006	-2.911772	0.0041
SIZE	0.671922	0.185951	3.613430	0.0004
ROA	14.64749	2.419428	6.054112	0.0000
DER	-0.304601	0.288417	-1.056112	0.2926
TAG	1.284425	0.972026	1.321390	0.1883
R-squared	0.402362	Mean dependent var	2.197540	
Adjusted R-squared	0.386839	S.D. dependent var	1.790075	
S.E. of regression	1.401711	Akaike info criterion	3.544205	
Sum squared resid	302.5781	Schwarz criterion	3.640712	
Log likelihood	-276.7643	Hannan-Quinn criter.	3.583396	
F-statistic	25.92028	Durbin-Watson stat	2.140995	
Prob(F-statistic)	0.000000			

Uji Multikolinearitas

Variable	Coefficient Variance	Uncentered VIF	Centered VIF
C	1.488415	120.4493	NA
SIZE	0.034578	126.6934	1.066415
ROA	5.853633	5.338298	1.721619
DER	0.083184	6.528585	1.690190
TAG	0.944835	3.474339	1.104430

Uji Heterokedastisitas

Heteroskedasticity Test: ARCH

F-statistic	0.125550	Prob. F(1,156)	0.7236
Obs*R-squared	0.127057	Prob. Chi-Square(1)	0.7215

Test Equation:

Dependent Variable: RESID²

Method: Least Squares

Sample (adjusted): 2 159

Included observations: 158 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.960407	0.316187	6.200159	0.0000
RESID ² (-1)	-0.028357	0.080030	-0.354330	0.7236
R-squared	0.000804	Mean dependent var		1.906361
Adjusted R-squared	-0.005601	S.D. dependent var		3.471661
S.E. of regression	3.481370	Akaike info criterion		5.345306
Sum squared resid	1890.710	Schwarz criterion		5.384073
Log likelihood	-420.2792	Hannan-Quinn criter.		5.361050
F-statistic	0.125550	Durbin-Watson stat		2.004248
Prob(F-statistic)	0.723570			

Uji Autokorelasi

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
* .	* .	1	-0.075	-0.075	0.9151	0.339
. *	. .	2	0.077	0.072	1.8884	0.389
* .	* .	3	-0.150	-0.141	5.5726	0.134
* .	* .	4	-0.118	-0.146	7.8600	0.097
. .	. .	5	-0.000	0.002	7.8601	0.164
. *	. *	6	0.100	0.102	9.5224	0.146
. *	. .	7	0.076	0.056	10.507	0.162
. .	. .	8	0.032	0.010	10.684	0.220
. .	. .	9	-0.055	-0.036	11.206	0.262
. .	. .	10	-0.038	-0.004	11.449	0.324
. .	. .	11	0.038	0.069	11.695	0.387
. .	. .	12	-0.049	-0.057	12.106	0.437
. *	. .	13	0.091	0.045	13.569	0.405
. .	. .	14	-0.006	0.015	13.575	0.482
. .	. .	15	0.052	0.051	14.064	0.521
. .	. .	16	-0.012	0.011	14.089	0.592
. *	. *	17	0.146	0.162	17.931	0.393
. .	. .	18	-0.020	0.022	18.002	0.455
. .	. .	19	0.069	0.053	18.865	0.466
. .	. *	20	0.059	0.118	19.505	0.489
. .	. .	21	-0.028	0.003	19.654	0.543
* .	* .	22	-0.087	-0.102	21.080	0.516
* .	* .	23	-0.087	-0.098	22.505	0.490
. .	. .	24	0.041	0.036	22.824	0.530
* .	* .	25	-0.078	-0.113	23.981	0.520
. *	. .	26	0.145	0.066	28.045	0.356
* .	* .	27	-0.071	-0.066	29.012	0.360
* .	* .	28	-0.075	-0.133	30.119	0.358
. .	. .	29	0.001	0.059	30.119	0.408
* .	. .	30	-0.067	-0.064	31.001	0.415
. *	. .	31	0.102	0.048	33.094	0.365
* .	* .	32	-0.077	-0.130	34.275	0.359
. .	. .	33	0.057	0.023	34.944	0.376
. .	. .	34	0.038	0.047	35.244	0.409
. .	. *	35	0.047	0.074	35.707	0.435
. .	. .	36	-0.027	-0.027	35.863	0.475

Lampiran 3

DATA PERUSAHAAN MANUFAKTUR DARI TAHUN 2011 – 2015

no	kode perusahaan	tahun	nilai perusahaan = pbv		
			closing price	book value	pbv
1	AISA	2011	495	659	0.751138
		2012	1080	695	1.553957
		2013	1430	806	1.774194
		2014	2095	1124	1.863879
		2015	1210	1182	1.023689
2	AKPI	2011	1020	1088	0.9375
		2012	800	1240	0.645161
		2013	810	1514	0.535007
		2014	830	1523	0.544977
		2015	875	1628	0.537469
3	ALDO	2011	370	149	2.483221
		2012	470	171	2.748538
		2013	660	254	2.598425
		2014	735	289	2.543253
		2015	735	310	2.370968
4	AMFG	2011	6550	4943	1.325106
		2012	8300	5661	1.466172
		2013	7000	6361	1.100456
		2014	8050	7338	1.097029
		2015	6550	7811	0.838561
5	ASII	2011	7400	1873	3.950881
		2012	7600	2219	3.424966
		2013	6800	2623	2.592451
		2014	7425	2972	2.498318
		2015	6000	3125	1.92
6	BRAM	2011	2150	2671	0.804942
		2012	3000	3642	0.823723
		2013	2200	3497	0.629111
		2014	5000	3836	1.303441
		2015	4680	5958	0.785498
7	CEKA	2011	950	1362	0.697504
		2012	1300	1558	0.834403
		2013	1160	1776	0.653153
		2014	1500	1807	0.830105
		2015	675	2150	0.313953
8	CPIN	2011	2150	1887	1.139375
		2012	3650	499	7.314629
		2013	3375	607	5.560132
		2014	3780	667	5.667166
		2015	2600	766	3.394256
9	DVLA	2011	1150	650	1.769231
		2012	1690	751	2.250333
		2013	2000	817	2.44798
		2014	1690	859	1.967404
		2015	1755	869	2.019563

10	GGRM	2011	62050	12760	4.862853
		2012	56300	13,828	4.071449
		2013	42000	15288	2.747253
		2014	60700	17270	3.514765
		2015	55000	19753	2.784387
11	ICBP	2011	5200	1837	2.830702
		2012	7800	2055	3.79562
		2013	10200	2275	4.483516
		2014	13100	2579	5.079488
		2015	6738	2810	2.397865
12	INAI	2011	540	670	0.80597
		2012	450	816	0.551471
		2013	600	797	0.752823
		2014	350	460	0.76087
		2015	405	757	0.535007
13	INDF	2011	4600	3600	1.277778
		2012	5850	3888	1.50463
		2013	6600	4315	1.529548
		2014	6750	4695	1.4377
		2015	5175	4911	1.053757
14	INDR	2011	1980	923	2.145179
		2012	1420	4378	0.324349
		2013	1000	4399	0.227324
		2014	770	4487	0.171607
		2015	760	6648	0.11432
15	INDS	2011	3500	2810	1.245552
		2012	4200	3608	1.16408
		2013	2675	3339	0.801138
		2014	1600	2786	0.5743
		2015	350	2924	0.119699
16	IPOL	2011	133	178	0.747191
		2012	106	194	0.546392
		2013	107	208	0.514423
		2014	116	298	0.389262
		2015	72	348	0.206897
17	JPFA	2011	3850	1827	2.10728
		2012	6150	2216	2.775271
		2013	1220	630	1.936508
		2014	950	635	1.496063
		2015	635	573	1.108202
18	KAEF	2011	340	226	1.504425
		2012	740	260	2.846154
		2013	590	292	2.020548
		2014	1465	322	4.549689
		2015	870	335	2.597015

19	KBLI	2011	104	180	0.577778
		2012	187	211	0.886256
		2013	142	221	0.642534
		2014	139	235	0.591489
		2015	119	256	0.464844
20	KLBF	2011	3400	642	5.29595
		2012	1060	145	7.310345
		2013	1250	181	6.906077
		2014	1830	209	8.755981
		2015	1320	233	5.665236
21	MYOR	2011	14250	3163	4.505217
		2012	20000	4002	4.997501
		2013	26000	4404	5.903724
		2014	836	4585	0.182334
		2015	1220	5808	0.210055
22	PBRX	2011	440	210	2.095238
		2012	470	277	1.696751
		2013	420	107	3.925234
		2014	505	169	2.988166
		2015	560	488	1.147541
23	RICY	2011	184	546	0.336996
		2012	174	572	0.304196
		2013	173	594	0.291246
		2014	174	618	0.281553
		2015	159	623	0.255217
24	ROTI	2011	3325	540	6.157407
		2012	6900	658	10.48632
		2013	1020	778	1.311054
		2014	1385	948	1.46097
		2015	1265	234	5.405983
25	SKLT	2011	140	178	0.786517
		2012	180	187	0.962567
		2013	180	202	0.891089
		2014	300	222	1.351351
		2015	308	220	1.4
26	SMCB	2011	2175	982	2.214868
		2012	2900	1099	2.638763
		2013	2275	1145	1.9869
		2014	2185	1143	1.911636
		2015	995	1102	0.902904
27	SMGR	2011	11450	2464	4.646916
		2012	15850	3062	5.176355
		2013	14150	3676	3.849293
		2014	16200	4215	3.843416
		2015	11400	4626	2.464332

28	SMSM	2011	1360	466	2.918455
		2012	2525	632	3.995253
		2013	3450	706	4.886686
		2014	4750	797	5.959849
		2015	1190	1000	1.19
29	TCID	2011	7700	5075	1.517241
		2012	11000	5455	2.016499
		2013	11900	5884	2.022434
		2014	17525	6383	2.745574
		2015	16500	8528	1.934803
30	TKIM	2011	2125	5038	0.421794
		2012	1980	5606	0.353193
		2013	1800	7333	0.245466
		2014	850	8671	0.098028
		2015	495	5245	0.094376
31	TOTO	2011	50000	15353	3.256693
		2012	6650	1813	3.667954
		2013	7700	2091	3.682449
		2014	3975	1243	3.197908
		2015	695	1145	0.606987
32	TRST	2011	390	472	0.826271
		2012	345	482	0.715768
		2013	250	609	0.410509
		2014	380	627	0.606061
		2015	310	696	0.445402
33	TSPC	2011	2550	677	3.766617
		2012	3725	745	5
		2013	3250	858	3.787879
		2014	2865	918	3.120915
		2015	1750	963	1.817238
34	ULTJ	2011	1080	414	2.608696
		2012	3720	580	6.413793
		2013	4500	698	6.446991
		2014	3720	784	4.744898
		2015	3945	968	4.075413

Lampiran 3

DATA PERUSAHAAN MANUFAKTUR DARI TAHUN 2011 – 2015

No	Kode Perusahaan	Tahun	liability	equity	der
1	AISA	2011	1.757.492	1.832.817	0,958902
		2012	1.834.123	2.033.453	0,901975
		2013	2.664.051	2.356.773	1,130381
		2014	3.779.017	3.592.829	1,051822
		2015	5.094.072	3.966.907	1,284142
2	AKPI	2011	783.585	740.165	1,058663
		2012	871.568	843.267	1,033561
		2013	1.055.231	1.029.336	1,025157
		2014	1.191.197	1.035.935	1,149876
		2015	1.775.577	1.107.566	1,603134
3	ALDO	2011	82.740	81.881	1,010491
		2012	90.591	94.306	0,960607
		2013	161.596	139.883	1,155223
		2014	197.392	159.423	1,238165
		2015	195.082	195.082	1
4	AMFG	2011	545.395	2.145.200	0,25424
		2012	658.332	2.457.089	0,267932
		2013	778.666	2.760.727	0,282051
		2014	733.749	3.184.642	0,230402
		2015	880.052	3.390.223	0,259585
5	ASII	2011	77.683.000	75.838.000	1,024328
		2012	92.460.000	89.814.000	1,029461
		2013	107.806.000	106.188.000	1,015237
		2014	115.705.000	120.324.000	0,961612
		2015	118.902.000	126.533.000	0,939692
6	BRAM	2011	458.394	1.201.725	0,381447
		2012	586.458	1.640.256	0,357541
		2013	934.571	1.998.308	0,467681
		2014	1.612.295	2.221.700	0,725703
		2015	1.596.160	2.681.260	0,595302
7	CEKA	2011	418.302	405.059	1,032694
		2012	564.290	463.403	1,217709
		2013	541.352	528.275	1,024754
		2014	746.599	537.551	1,38889
		2015	845.933	639.894	1,321989
8	CPIN	2011	2.658.734	6.189.470	0,429558
		2012	4.172.163	8.176.464	0,510265
		2013	5.771.297	9.950.900	0,579977
		2014	9.919.150	10.943.289	0,906414
		2015	12.123.488	12.561.427	0,965136
9	DVLA	2011	200.374	727.917	0,27527
		2012	233.145	841.546	0,277044
		2013	275.351	914.703	0,301028
		2014	273.816	962.431	0,284505
		2015	402.761	973.517	0,413717

No	Kode Perusahaan	Tahun	liability	equity	der
10	GGRM	2011	14.537.777	24.550.928	0,592148
		2012	14.903.612	26.605.713	0,560166
		2013	21.353.980	29.416.271	0,725924
		2014	24.991.880	33.228.720	0,752117
		2015	25.497.504	38.007.909	0,670847
11	ICBP	2011	4.513.084	10.709.773	0,421399
		2012	5.835.523	11.984.361	0,486928
		2013	8.001.739	13.265.731	0,603189
		2014	9.870.264	15.039.947	0,65627
		2015	10.173.713	16.386.911	0,620844
12	INAI	2011	438.220	106.063	4,131695
		2012	483.006	129.218	3,737916
		2013	639.564	126.318	5,063126
		2014	751.440	145.842	5,152425
		2015	1.090.438	239.821	4,546883
13	INDF	2011	21.975.708	31.610.225	0,695209
		2012	25.249.168	34.140.237	0,739572
		2013	39.719.660	37.891.756	1,04824
		2014	44.710.509	41.228.376	1,08446
		2015	48.709.933	43.121.593	1,129595
14	INDR	2011	3.425.990	2.681.222	1,277772
		2012	3.802.341	2.865.653	1,326867
		2013	5.363.580	3.653.899	1,467906
		2014	5.440.399	3.776.674	1,440527
		2015	7.445.932	4.350.773	1,711404
15	INDS	2011	507.466	632.249	0,802636
		2012	528.206	1.136.573	0,464736
		2013	443.653	1.752.866	0,253101
		2014	454.348	1.828.319	0,248506
		2015	634.889	1.919.039	0,330837
16	IPOL	2011	1.470.818	1.148.918	1,280177
		2012	1.371.276	1.363.669	1,005578
		2013	1.548.115	1.856.914	0,833703
		2014	1.624.075	1.925.228	0,843575
		2015	1.869.928	2.245.465	0,832758
17	JPFA	2011	4.481.070	3.785.347	1,183794
		2012	6.198.137	4.763.327	1,30122
		2013	9.672.368	5.245.222	1,844034
		2014	10.440.441	5.289.994	1,973621
		2015	11.049.774	6.109.692	1,808565
18	KAEF	2011	541.737	1.252.506	0,432522
		2012	634.814	1.441.534	0,440374
		2013	847.585	1.624.355	0,521798
		2014	1.157.041	1.789.213	0,646676
		2015	1.374.127	1.862.097	0,737946

No	Kode Perusahaan	Tahun	liability	equity	der
19	KBLI	2011	363.597	719.927	0,505047
		2012	316.557	845.141	0,374561
		2013	450.373	886.650	0,507949
		2014	396.595	940.757	0,42157
		2015	524.438	1.027.362	0,510471
20	KLBF	2011	1.758.619	6.515.935	0,269895
		2012	2.046.314	7.371.644	0,277593
		2013	2.815.103	8.499.976	0,33119
		2014	2.607.557	9.817.476	0,265604
		2015	2.758.131	10.938.286	0,252154
21	MYOR	2011	4.175.176	2.424.669	1,721957
		2012	5.234.656	3.067.850	1,706295
		2013	5.816.323	3.938.761	1,476688
		2014	6.190.553	4.100.555	1,509687
		2015	6.148.256	5.194.460	1,183618
22	PBRX	2011	830.702	643.336	1,291241
		2012	1.165.530	848.745	1,373239
		2013	1.653.814	1.215.433	1,360679
		2014	2.012.993	2.544.732	0,791043
		2015	3.326.911	3.163.813	1,051551
23	RICY	2011	291.843	350.252	0,833237
		2012	475.541	366.957	1,295904
		2013	728.675	381.190	1,91158
		2014	774.439	396.313	1,95411
		2015	798.115	400.079	1,994894
24	ROTI	2011	212.696	546.441	0,389239
		2012	538.337	666.608	0,807577
		2013	1.035.351	787.338	1,315002
		2014	1.182.772	960.122	1,231898
		2015	1.517.789	1.188.535	1,277025
25	SKLT	2011	91.338	122.900	0,74319
		2012	120.264	129.483	0,928801
		2013	162.339	139.650	1,16247
		2014	178.207	153.368	1,161957
		2015	225.066	152.045	1,480259
26	SMCB	2011	3.423.241	7.527.260	0,454779
		2012	3.750.461	8.418.056	0,445526
		2013	6.122.043	8.772.947	0,697832
		2014	8.436.760	8.758.592	0,963255
		2015	8.871.708	8.449.857	1,049924
27	SMGR	2011	5.046.506	14.615.097	0,345294
		2012	8.414.229	18.164.855	0,463215
		2013	8.988.908	21.803.976	0,41226
		2014	9.312.214	25.002.452	0,372452
		2015	10.712.321	27.440.798	0,390379

No	Kode Perusahaan	Tahun	liability	equity	der
28	SMSM	2011	466.246	670.612	0,695254
		2012	646.095	910.119	0,709902
		2013	695.957	1.016.753	0,68449
		2014	602.558	1.146.837	0,525409
		2015	779.860	1.440.248	0,541476
29	TCID	2011	110.452	1.020.413	0,108242
		2012	164.751	1.096.822	0,150208
		2013	282.962	1.182.991	0,239192
		2014	569.731	1.283.504	0,443887
		2015	367.225	1.714.871	0,214141
30	TKIM	2011	16.565.150	6.729.608	2,461533
		2012	18.447.981	7.487.365	2,463882
		2013	22.168.099	9.794.712	2,263272
		2014	22.131.466	11.581.734	1,910894
		2015	25.323.690	14.013.836	1,807049
31	TOTO	2011	579.029	760.541	0,761338
		2012	624.499	898.165	0,695305
		2013	710.527	1.035.650	0,686069
		2014	796.096	1.231.192	0,646606
		2015	947.998	1.491.543	0,635582
32	TRST	2011	806.029	1.326.421	0,607672
		2012	835.137	1.352.992	0,617252
		2013	1.551.242	1.709.677	0,90733
		2014	1.499.792	1.761.493	0,851432
		2015	1.400.439	1.956.921	0,715634
33	TSPC	2011	1.204.439	3.045.935	0,395425
		2012	1.279.829	3.353.156	0,381679
		2013	1.545.006	3.862.952	0,399955
		2014	1.460.391	4.132.339	0,353405
		2015	1.947.588	4.337.141	0,449049
34	ULTJ	2011	776.735	1.194.538	0,650239
		2012	744.274	1.676.519	0,44394
		2013	796.474	2.015.147	0,395244
		2014	651.986	2.265.098	0,28784
		2015	742.490	2.797.506	0,265411

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DATA PERUSAHAAN MANUFAKTUR DARI TAHUN 2011 – 2015

No	Kode Perusahaan	Tahun	total asset	laba bersih	roa
1	AISA	2011	3.590.309	149.951	0,041765
		2012	3.867.576	253.664	0,065587
		2013	5.020.824	346.728	0,069058
		2014	7.371.846	378.142	0,051295
		2015	9.060.979	373.750	0,041248
2	AKPI	2011	1.523.750	51.213	0,03361
		2012	1.714.834	78.710	0,045899
		2013	2.084.567	186.070	0,089261
		2014	2.227.043	16.918	0,007597
		2015	2.883.143	27.645	0,009588
3	ALDO	2011	164.621	7.917	0,048092
		2012	184.897	12.425	0,0672
		2013	301.479	22.589	0,074927
		2014	356.814	21.061	0,059025
		2015	366.011	24.079	0,065788
4	AMFG	2011	2.690.595	336.995	0,125249
		2012	3.115.421	346.609	0,111256
		2013	3.539.393	338.358	0,095598
		2014	3.918.391	458.635	0,117047
		2015	4.270.275	341.346	0,079935
5	ASII	2011	153.521.000	21.348.000	0,139056
		2012	182.274.000	22.460.000	0,123221
		2013	213.994.000	23.708.000	0,110788
		2014	236.029.000	22.151.000	0,093849
		2015	245.435.000	15.613.000	0,063614
6	BRAM	2011	1.660.119	54.979	0,033118
		2012	2.226.714	237.177	0,106514
		2013	2.932.878	24.018	0,008189
		2014	3.833.995	211.975	0,055288
		2015	4.277.420	184.291	0,043085
7	CEKA	2011	823.361	96.306	0,116967
		2012	1.027.693	58.344	0,056772
		2013	1.069.627	64.872	0,060649
		2014	1.284.150	39.026	0,030391
		2015	1.485.826	106.549	0,07171
8	CPIN	2011	8.848.204	2.362.497	0,267003
		2012	12.348.627	2.680.872	0,217099
		2013	15.722.197	2.528.690	0,160836
		2014	20.592.439	1.746.644	0,08482
		2015	24.684.915	1.832.598	0,07424
9	DVLA	2011	928.291	120.915	0,130255
		2012	1.074.691	148.909	0,13856
		2013	1.190.054	125.796	0,105706
		2014	1.236.248	80.929	0,065463
		2015	1.376.278	107.894	0,078395

No	Kode Perusahaan	Tahun	total asset	laba bersih	roa
10	GGRM	2011	39.088.705	4.958.102	0,126842
		2012	41.509.325	4.068.711	0,098019
		2013	50.770.251	4.383.932	0,086348
		2014	58.220.600	5.395.293	0,09267
		2015	63.505.413	6.452.834	0,101611
11	ICBP	2011	15.222.857	2.064.049	0,135589
		2012	17.819.884	2.287.242	0,128353
		2013	21.267.470	2.286.639	0,107518
		2014	24.910.211	2.522.328	0,101257
		2015	26.560.624	2.923.148	0,110056
12	INAI	2011	544.282	26.357	0,048425
		2012	612.224	23.155	0,037821
		2013	765.881	5.020	0,006555
		2014	897.282	22.059	0,024584
		2015	1.330.259	28.616	0,021512
13	INDF	2011	53.585.933	5.017.425	0,093633
		2012	59.389.405	4.871.745	0,082031
		2013	77.611.416	4.896.782	0,063094
		2014	85.938.885	4.812.618	0,056
		2015	91.831.526	3.709.501	0,040395
14	INDR	2011	6.107.213	108.784	0,017812
		2012	6.642.450	46.047	0,006932
		2013	9.017.479	39.548	0,004386
		2014	9.217.073	84.090	0,009123
		2015	11.796.705	148.155	0,012559
15	INDS	2011	1.139.715	120.415	0,105654
		2012	1.664.779	540.324	0,324562
		2013	2.196.518	411.289	0,187246
		2014	2.282.666	127.918	0,056039
		2015	2.553.928	1.934	0,000757
16	IPOL	2011	2.687.332	82.409	0,030666
		2012	2.734.945	72.959	0,026677
		2013	3.405.029	133.674	0,039258
		2014	3.549.303	51.111	0,0144
		2015	4.115.394	39.058	0,009491
17	JPFA	2011	8.266.417	650.169	0,078652
		2012	10.961.464	1.077.433	0,098293
		2013	14.917.590	661.699	0,044357
		2014	15.730.435	371.288	0,023603
		2015	17.159.466	524.484	0,030565
18	KAEF	2011	1.794.242	3.481.166	1,940188
		2012	2.076.348	205.764	0,099099
		2013	2.471.940	215.642	0,087236
		2014	2.968.185	236.531	0,079689
		2015	3.236.224	252.973	0,078169

No	Kode Perusahaan	Tahun	total asset	laba bersih	roa
19	KBLI	2011	1.083.524	63.747	0,058833
		2012	1.161.698	125.214	0,107785
		2013	1.337.022	73.567	0,055023
		2014	1.337.351	70.136	0,052444
		2015	1.551.800	115.371	0,074347
20	KLBF	2011	8.274.554	1.539.721	0,186079
		2012	9.417.957	1.772.035	0,188155
		2013	11.315.061	2.004.244	0,177131
		2014	12.425.032	2.129.215	0,171365
		2015	13.696.417	2.057.694	0,150236
21	MYOR	2011	6.599.846	483.826	0,073309
		2012	8.302.506	742.837	0,089471
		2013	9.710.223	1.008.764	0,103887
		2014	10.291.108	409.825	0,039823
		2015	11.342.716	1.250.233	0,110223
22	PBRX	2011	1.515.038	71.877	0,047442
		2012	2.014.275	66.862	0,033194
		2013	2.869.248	128.697	0,044854
		2014	4.557.725	125.388	0,027511
		2015	6.490.724	126.365	0,019469
23	RICY	2011	642.095	12.210	0,019016
		2012	842.499	16.978	0,020152
		2013	1.109.865	8.721	0,007858
		2014	1.170.752	15.112	0,012908
		2015	1.198.194	13.466	0,011239
24	ROTI	2011	759.137	115.933	0,152717
		2012	1.204.945	149.150	0,123782
		2013	1.822.689	158.015	0,086693
		2014	2.142.894	188.578	0,088002
		2015	2.706.324	270.539	0,099965
25	SKLT	2011	214.238	5.977	0,027899
		2012	249.746	7.963	0,031884
		2013	301.989	11.440	0,037882
		2014	331.575	16.481	0,049705
		2015	377.111	20.067	0,053212
26	SMCB	2011	10.950.501	1.054.987	0,096341
		2012	12.168.517	1.381.404	0,113523
		2013	14.894.990	1.006.363	0,067564
		2014	17.195.352	652.412	0,037941
		2015	17.321.565	199.488	0,011517
27	SMGR	2011	19.661.603	3.955.273	0,201167
		2012	26.579.084	4.924.791	0,185288
		2013	30.792.884	5.852.023	0,190045
		2014	34.314.666	5.587.346	0,162827
		2015	38.153.119	4.525.441	0,118613

No	Kode Perusahaan	Tahun	total asset	laba bersih	roa
28	SMSM	2011	1.136.858	219.260	0,192865
		2012	1.556.214	254.635	0,163625
		2013	1.712.710	338.223	0,197478
		2014	1.749.395	420.436	0,240332
		2015	2.220.108	461.307	0,207786
29	TCID	2011	1.130.865	140.039	0,123834
		2012	1.261.573	150.803	0,119536
		2013	1.465.952	160.564	0,109529
		2014	1.853.235	174.908	0,09438
		2015	2.082.097	544.474	0,261503
30	TKIM	2011	23.294.758	642.268	0,027571
		2012	25.935.346	344.755	0,013293
		2013	31.962.810	335.989	0,010512
		2014	33.713.200	274.438	0,00814
		2015	39.337.527	21.282	0,000541
31	TOTO	2011	1.339.570	218.724	0,163279
		2012	1.522.664	236.696	0,155449
		2013	1.746.178	236.558	0,135472
		2014	2.027.289	294.614	0,145324
		2015	2.439.541	285.237	0,116922
32	TRST	2011	2.132.450	144.001	0,067528
		2012	2.188.129	112.201	0,051277
		2013	3.260.920	384.765	0,117993
		2014	3.261.285	65.856	0,020193
		2015	3.357.359	25.314	0,00754
33	TSPC	2011	4.250.374	585.309	0,137708
		2012	4.632.985	643.568	0,13891
		2013	5.407.958	674.147	0,124658
		2014	5.592.730	674.147	0,12054
		2015	6.284.729	529.219	0,084207
34	ULTJ	2011	2.179.182	101.323	0,046496
		2012	2.420.793	353.432	0,145998
		2013	2.811.621	325.127	0,115637
		2014	2.917.084	283.361	0,097138
		2015	3.539.996	523.100	0,147769

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DATA PERUSAHAAN MANUFAKTUR DARI TAHUN 2011 – 2015

No	Kode Perusahaan	Tahun	net sales	size
1	AISA	2011	1.752.802	6,243733
		2012	2.747.623	6,438957
		2013	4.056.735	6,608177
		2014	5.139.974	6,710961
		2015	6.010.895	6,778939
2	AKPI	2011	1.505.559	6,177698
		2012	1.509.185	6,178742
		2013	1.663.385	6,220993
		2014	1.945.383	6,289005
		2015	2.017.467	6,304806
3	ALDO	2011	244.803	5,388817
		2012	279.604	5,446543
		2013	399.346	5,601349
		2014	493.882	5,693623
		2015	538.363	5,731075
4	AMFG	2011	2.596.271	6,41435
		2012	2.857.310	6,455957
		2013	3.216.480	6,507381
		2014	3.672.186	6,564925
		2015	3.665.989	6,564191
5	ASII	2011	162.564.000	8,211024
		2012	188.053.000	8,27428
		2013	193.880.000	8,287533
		2014	201.701.000	8,304708
		2015	184.196.000	8,26528
6	BRAM	2011	1.900.212	6,278802
		2012	1.683.897	6,226316
		2013	2.456.059	6,390239
		2014	2.583.169	6,412153
		2015	3.046.700	6,48383
7	CEKA	2011	1.238.169	6,09278
		2012	1.123.520	6,050581
		2013	2.531.881	6,403443
		2014	3.701.869	6,568421
		2015	3.485.734	6,542294
8	CPIN	2011	17.957.972	7,254257
		2012	21.310.925	7,328602
		2013	25.662.992	7,409307
		2014	29.150.275	7,464643
		2015	30.107.727	7,478678
9	DVLA	2011	972.297	5,987799
		2012	1.087.380	6,036381
		2013	1.101.684	6,042057
		2014	1.103.822	6,042899
		2015	1.306.098	6,115976

No	Kode Perusahaan	Tahun	net sales	size
10	GGRM	2011	41.884.352	7,622052
		2012	49.028.696	7,69045
		2013	55.436.954	7,743799
		2014	65.185.850	7,814153
		2015	70.365.573	7,84736
11	ICBP	2011	19.367.155	7,287066
		2012	21.716.913	7,336798
		2013	25.094.681	7,399582
		2014	30.022.463	7,477446
		2015	31.741.094	7,501622
12	INAI	2011	555.887	5,744987
		2012	582.654	5,765411
		2013	640.703	5,806657
		2014	933.462	5,970097
		2015	1.384.676	6,141348
13	INDF	2011	45.332.256	7,656407
		2012	50.201.548	7,700717
		2013	55.623.657	7,74526
		2014	63.594.452	7,803419
		2015	64.061.947	7,8066
14	INDR	2011	7.078.076	6,849915
		2012	7.204.322	6,857593
		2013	9.306.048	6,968765
		2014	9.029.558	6,955666
		2015	9.996.678	6,999856
15	INDS	2011	1.234.986	6,091662
		2012	1.476.988	6,169377
		2013	1.702.447	6,231074
		2014	1.866.977	6,271139
		2015	1.659.506	6,219979
16	IPOL	2011	1.879.902	6,274135
		2012	2.197.730	6,341974
		2013	2.864.839	6,4571
		2014	2.856.401	6,455819
		2015	2.939.350	6,468251
17	JPFA	2011	15.633.068	7,194044
		2012	17.832.702	7,251217
		2013	21.412.085	7,330659
		2014	24.458.880	7,388437
		2015	25.022.913	7,398338
18	KAEF	2011	3.481.166	6,541725
		2012	3.734.241	6,572202
		2013	4.348.074	6,638297
		2014	4.521.025	6,655237
		2015	4.860.371	6,686669

No	Kode Perusahaan	Tahun	net sales	size
19	KBLI	2011	1.841.939	6,265275
		2012	2.273.197	6,356637
		2013	2.572.350	6,41033
		2014	2.384.078	6,37732
		2015	2.662.039	6,425214
20	KLBF	2011	10.911.860	7,037899
		2012	13.636.405	7,1347
		2013	16.002.131	7,204178
		2014	17.368.533	7,239763
		2015	17.887.464	7,252549
21	MYOR	2011	9.453.866	6,975609
		2012	10.510.626	7,021629
		2013	12.017.837	7,079826
		2014	14.169.088	7,151342
		2015	14.818.731	7,170811
22	PBRX	2011	2.170.707	6,336601
		2012	2.771.557	6,442724
		2013	4.168.411	6,619971
		2014	4.209.950	6,624277
		2015	6.135.057	6,787819
23	RICY	2011	616.395	5,789859
		2012	749.973	5,875046
		2013	984.185	5,993077
		2014	1.185.444	6,073881
		2015	1.111.051	6,045734
24	ROTI	2011	813.342	5,910273
		2012	1.190.826	6,075848
		2013	1.505.520	6,177687
		2014	1.880.263	6,274219
		2015	2.174.502	6,33736
25	SKLT	2011	344.436	5,537109
		2012	401.724	5,603928
		2013	567.049	5,753621
		2014	681.420	5,833415
		2015	745.108	5,872219
26	SMCB	2011	7.523.964	6,876447
		2012	9.011.076	6,954777
		2013	9.686.262	6,986156
		2014	10.528.723	7,022376
		2015	9.239.022	6,965626
27	SMGR	2011	16.378.794	7,214282
		2012	19.598.548	7,292224
		2013	24.501.241	7,389188
		2014	26.987.035	7,431155
		2015	26.948.004	7,430527

No	Kode Perusahaan	Tahun	net sales	size
28	SMSM	2011	1.807.891	6,257172
		2012	2.269.290	6,35589
		2013	2.381.889	6,376922
		2014	2.632.860	6,420428
		2015	2.802.924	6,447611
29	TCID	2011	1.654.671	6,218712
		2012	1.851.153	6,267442
		2013	2.027.899	6,307046
		2014	2.308.204	6,363274
		2015	2.314.890	6,36453
30	TKIM	2011	12.502.414	7,096994
		2012	12.780.268	7,10654
		2013	14.998.308	7,176042
		2014	14.857.973	7,17196
		2015	15.573.517	7,192387
31	TOTO	2011	1.341.927	6,127729
		2012	1.576.763	6,197766
		2013	1.711.307	6,233328
		2014	2.053.630	6,312522
		2015	2.278.674	6,357682
32	TRST	2011	2.025.867	6,306611
		2012	1.949.153	6,289846
		2013	2.033.149	6,308169
		2014	2.507.885	6,399308
		2015	2.457.349	6,390467
33	TSPC	2011	5.780.664	6,761978
		2012	6.630.810	6,821567
		2013	6.854.889	6,836
		2014	7.512.115	6,875762
		2015	8.181.482	6,912832
34	ULTJ	2011	2.102.384	6,322712
		2012	2.809.851	6,448683
		2013	3.460.231	6,539105
		2014	3.916.789	6,59293
		2015	4.393.933	6,642853

Lampiran 3

DATA PERUSAHAAN MANUFAKTUR YANG TERDAFTAR DI BEI PERIODE 2011 – 2015

No	Kode Perusahaan	Tahun	asset skrng	asset sbimya	t-t-1	asset sbimnya	tag
1	AISA	2011	3.590.309	1.936.950	1.653.359	1.936.950	0,853589
		2012	3.867.576	3.590.309	277.267	3.590.309	0,077227
		2013	5.020.824	3.867.576	1.153.248	3.867.576	0,298184
		2014	7.371.846	5.020.824	2.351.022	5.020.824	0,468254
		2015	9.060.979	7.371.846	1.689.133	7.371.846	0,229133
2	AKPI	2011	1.523.750	1.297.898	225.852	1.297.898	0,174014
		2012	1.714.834	1.523.750	191.084	1.523.750	0,125404
		2013	2.084.567	1.714.834	369.733	1.714.834	0,215609
		2014	2.227.043	2.084.567	142.476	2.084.567	0,068348
		2015	2.883.143	2.227.043	656.1	2.227.043	0,294606
3	ALDO	2011	164.621	134.414	30.207	134.414	0,224731
		2012	184.897	164.621	20.276	164.621	0,123168
		2013	301.479	184.897	116.582	184.897	0,630524
		2014	356.814	301.479	55.335	301.479	0,183545
		2015	366.011	356.814	9.197	356.814	0,025775
4	AMFG	2011	2.690.595	2.372.657	317.938	2.372.657	0,134001
		2012	3.115.421	2.690.595	424.826	2.690.595	0,157893
		2013	3.539.393	3.115.421	423.972	3.115.421	0,136088
		2014	3.918.391	3.539.393	378.998	3.539.393	0,10708
		2015	4.270.275	3.918.391	351.884	3.918.391	0,089803
5	ASII	2011	153.521.000	112.857.000	40.664.000	112.857.000	0,360314
		2012	182.274.000	153.521.000	28.753.000	153.521.000	0,18729
		2013	213.994.000	182.274.000	31.720.000	182.274.000	0,174024
		2014	236.029.000	213.994.000	22.035.000	213.994.000	0,10297
		2015	245.435.000	236.029.000	9.406.000	236.029.000	0,039851
6	BRAM	2011	1.660.119	1.492.728	167.391	1.492.728	0,112138
		2012	2.226.714	1.660.119	566.595	1.660.119	0,341298
		2013	2.932.878	2.226.714	706.164	2.226.714	0,317133
		2014	3.833.995	2.932.878	901.117	2.932.878	0,307247
		2015	4.277.420	3.833.995	443.425	3.833.995	0,115656
7	CEKA	2011	877.549	850.47	27.079	850.47	0,03184
		2012	1.027.693	823.361	204.332	823.361	0,248168
		2013	1.069.627	1.027.693	41.934	1.027.693	0,040804
		2014	1.284.150	1.069.627	214.523	1.069.627	0,200559
		2015	1.485.826	1.284.150	201.676	1.284.150	0,15705

No	Kode Perusahaan	Tahun	asset skrng	asset sblmya	t-t-1	asset sblmnya	tag
8	CPIN	2011	8.848.204	6.518.276	2.329.928	6.518.276	0,357445
		2012	12.348.627	8.848.204	3.500.423	8.848.204	0,395608
		2013	15.722.197	12.348.627	3.373.570	12.348.627	0,273194
		2014	20.592.439	15.722.197	4.870.242	15.722.197	0,309769
		2015	24.684.915	20.592.439	4.092.476	20.592.439	0,198737
9	DVLA	2011	928.291	854.11	74.181	854.11	0,086852
		2012	1.074.691	928.291	146.4	928.291	0,157709
		2013	1.190.054	1.074.691	115.363	1.074.691	0,107345
		2014	1.236.248	1.190.054	46.194	1.190.054	0,038817
		2015	1.376.278	1.236.248	140.03	1.236.248	0,11327
10	GGRM	2011	39.088.705	30.741.679	8.347.026	30.741.679	0,271521
		2012	41.509.325	39.088.705	2.420.620	39.088.705	0,061926
		2013	50.770.251	41.509.325	9.260.926	41.509.325	0,223105
		2014	58.220.600	50.770.251	7.450.349	50.770.251	0,146746
		2015	63.505.413	58.220.600	5.284.813	58.220.600	0,090772
11	ICBP	2011	15.222.857	13.361.313	1.861.544	13.361.313	0,139323
		2012	17.819.884	15.222.857	2.597.027	15.222.857	0,1706
		2013	21.267.470	17.819.884	3.447.586	17.819.884	0,193468
		2014	24.910.211	21.267.470	3.642.741	21.267.470	0,171282
		2015	26.560.624	24.910.211	1.650.413	24.910.211	0,066254
12	INAI	2011	544.282	389.007	155.275	389.007	0,399157
		2012	612.224	544.282	67.942	544.282	0,124829
		2013	765.881	612.224	153.657	612.224	0,250982
		2014	897.282	765.881	131.401	765.881	0,171568
		2015	1.330.259	897.282	432.977	897.282	0,482543
13	INDF	2011	53.585.933	47.275.955	6.309.978	47.275.955	0,133471
		2012	59.389.405	53.585.933	5.803.472	53.585.933	0,108302
		2013	77.611.416	59.389.405	18.222.011	59.389.405	0,306823
		2014	85.938.885	77.611.416	8.327.469	77.611.416	0,107297
		2015	91.831.526	85.938.885	5.892.641	85.938.885	0,068568
14	INDR	2011	6.107.213	5.085.915	1.021.298	5.085.915	0,200809
		2012	6.642.450	6.107.213	535.237	6.107.213	0,08764
		2013	9.017.479	6.642.450	2.375.029	6.642.450	0,357553
		2014	9.217.073	9.017.479	199.594	9.017.479	0,022134
		2015	11.796.705	9.217.073	2.579.632	9.217.073	0,279875

No	Kode Perusahaan	Tahun	asset skrng	asset sblmya	t-t-1	asset sblmya	tag
15	INDS	2011	1.139.715	769.816	369.899	769.816	0,480503
		2012	1.664.779	1.139.715	525.064	1.139.715	0,460698
		2013	2.196.518	1.664.779	531.739	1.664.779	0,319405
		2014	2.282.666	2.196.518	86.148	2.196.518	0,03922
		2015	2.553.928	2.282.666	271.262	2.282.666	0,118836
16	IPOL	2011	2.687.332	2219410	467.922	2219410	0,210832
		2012	2.734.945	2.687.332	47.613	2.687.332	0,017718
		2013	3.405.029	2.734.945	670.084	2.734.945	0,245008
		2014	3.549.303	3.405.029	144.274	3.405.029	0,042371
		2015	4.115.394	3.549.303	566.091	3.549.303	0,159494
17	JPFA	2011	8.266.417	6.981.107	1.285.310	6.981.107	0,184113
		2012	10.961.464	8.266.417	2.695.047	8.266.417	0,326024
		2013	14.917.590	10.961.464	3.956.126	10.961.464	0,360912
		2014	15.730.435	14.917.590	812.845	14.917.590	0,054489
		2015	17.159.466	15.730.435	1.429.031	15.730.435	0,090845
18	KAEF	2011	1.794.242	1.657.292	136.95	1.657.292	0,082635
		2012	2.076.348	1.794.242	282.106	1.794.242	0,157229
		2013	2.471.940	2.076.348	395.592	2.076.348	0,190523
		2014	2.968.185	2.471.940	496.245	2.471.940	0,200751
		2015	3.236.224	2.968.185	268.039	2.968.185	0,090304
19	KBLI	2011	1.083.524	958.737	124.787	958.737	0,130158
		2012	1.161.698	1.083.524	78.174	1.083.524	0,072148
		2013	1.337.022	1.161.698	175.324	1.161.698	0,15092
		2014	1.337.351	1.337.022	329	1.337.022	0,000246
		2015	1.551.800	1.337.351	214.449	1.337.351	0,160354
20	KLBF	2011	8.274.554	7.032.497	1.242.057	7.032.497	0,176617
		2012	9.417.957	8.274.554	1.143.403	8.274.554	0,138183
		2013	11.315.061	9.417.957	1.897.104	9.417.957	0,201435
		2014	12.425.032	11.315.061	1.109.971	11.315.061	0,098097
		2015	13.696.417	12.425.032	1.271.385	12.425.032	0,102324
21	MYOR	2011	6.599.846	4.399.191	2.200.655	4.399.191	0,500241
		2012	8.302.506	6.599.846	1.702.660	6.599.846	0,257985
		2013	9.710.223	8.302.506	1.407.717	8.302.506	0,169553
		2014	10.291.108	9.710.223	580.885	9.710.223	0,059822
		2015	11.342.716	10.291.108	1.051.608	10.291.108	0,102186

No	Kode Perusahaan	Tahun	asset skrng	asset sblmnya	t-t-1	asset sblmnya	tag
22	PBRX	2011	1.515.038	887.284	627.754	887.284	0,707501
		2012	2.014.275	1.515.038	499.237	1.515.038	0,329521
		2013	2.869.248	2.014.275	854.973	2.014.275	0,424457
		2014	4.557.725	2.869.248	1.688.477	2.869.248	0,588474
		2015	6.490.724	4.557.725	1.932.999	4.557.725	0,424115
23	RICY	2011	642.095	613.323	28.772	613.323	0,046912
		2012	842.499	642.095	200.404	642.095	0,31211
		2013	1.109.865	842.499	267.366	842.499	0,317349
		2014	1.170.752	1.109.865	60.887	1.109.865	0,05486
		2015	1.198.194	1.170.752	27.442	1.170.752	0,02344
24	ROTI	2011	759.137	568.265	190.872	568.265	0,335886
		2012	1.204.945	759.137	445.808	759.137	0,587256
		2013	1.822.689	1.204.945	617.744	1.204.945	0,512674
		2014	2.142.894	1.822.689	320.205	1.822.689	0,175677
		2015	2.706.324	2.142.894	563.43	2.142.894	0,262929
25	SKLT	2011	214.238	199.375	14.863	199.375	0,074548
		2012	249.746	214.238	35.508	214.238	0,165741
		2013	301.989	249.746	52.243	249.746	0,209185
		2014	331.575	301.989	29.586	301.989	0,09797
		2015	377.111	331.575	45.536	331.575	0,137332
26	SMCB	2011	10.950.501	10.437.249	513.252	10.437.249	0,049175
		2012	12.168.517	10.950.501	1.218.016	10.950.501	0,111229
		2013	14.894.990	12.168.517	2.726.473	12.168.517	0,22406
		2014	17.195.352	14.894.990	2.300.362	14.894.990	0,154439
		2015	17.321.565	17.195.352	126.213	17.195.352	0,00734
27	SMGR	2011	19.661.603	15.562.999	4.098.604	15.562.999	0,263356
		2012	26.579.084	19.661.603	6.917.481	19.661.603	0,351827
		2013	30.792.884	26.579.084	4.213.800	26.579.084	0,158538
		2014	34.314.666	30.792.884	3.521.782	30.792.884	0,11437
		2015	38.153.119	34.314.666	3.838.453	34.314.666	0,11186
28	SMSM	2011	1.136.858	1.067.103	69.755	1.067.103	0,065369
		2012	1.556.214	1.136.858	419.356	1.136.858	0,368873
		2013	1.712.710	1.556.214	156.496	1.556.214	0,100562
		2014	1.749.395	1.712.710	36.685	1.712.710	0,021419
		2015	2.220.108	1.749.395	470.713	1.749.395	0,269072

No	Kode Perusahaan	Tahun	asset skrng	asset sblmnya	t-t-1	asset sblmnya	tag
29	TCID	2011	1.130.865	1.047.238	83.627	1.047.238	0,079855
		2012	1.261.573	1.130.865	130.708	1.130.865	0,115582
		2013	1.465.952	1.261.573	204.379	1.261.573	0,162003
		2014	1.853.235	1.465.952	387.283	1.465.952	0,264185
		2015	2.082.097	1.853.235	228.862	1.853.235	0,123493
30	TKIM	2011	23.294.758	20.946.818	2.347.940	20.946.818	0,112091
		2012	25.935.346	23.294.758	2.640.588	23.294.758	0,113355
		2013	31.962.810	25.935.346	6.027.464	25.935.346	0,232403
		2014	33.713.200	31.962.810	1.750.390	31.962.810	0,054763
		2015	39.337.527	33.713.200	5.624.327	33.713.200	0,166829
31	TOTO	2011	1.339.570	1.091.583	247.987	1.091.583	0,227181
		2012	1.522.664	1.339.570	183.094	1.339.570	0,136681
		2013	1.746.178	1.522.664	223.514	1.522.664	0,146791
		2014	2.027.289	1.746.178	281.111	1.746.178	0,160986
		2015	2.439.541	2.027.289	412.252	2.027.289	0,203351
32	TRST	2011	2.132.450	2.029.558	102.892	2.029.558	0,050697
		2012	2.188.129	2.132.450	55.679	2.132.450	0,02611
		2013	3.260.920	2.188.129	1.072.791	2.188.129	0,490278
		2014	3.261.285	3.260.920	365	3.260.920	0,000112
		2015	3.357.359	3.261.285	96.074	3.261.285	0,029459
33	TSPC	2011	4.250.374	3.589.596	660.778	3.589.596	0,184081
		2012	4.632.985	4.250.374	382.611	4.250.374	0,090018
		2013	5.407.958	4.632.985	774.973	4.632.985	0,167273

Lampiran 4

OUTLAYER

No	Kode Perusahaan	Tahun	pbv	size	roa	der	tag
1	AISA	2011	0,7511	6,2437	0,0418	0,9589	
		2012	2,0952	6,3366	0,0474	1,2912	
		2013	2,5984	5,6013	0,0749	1,1552	
		2014	2,9882	6,6243	0,0275	0,791	0,5885
		2015		6,0758	0,1238	0,8076	0,5873
2	AKPI	2011	1,3111	6,1777	0,0867	1,315	0,5127
		2012	4,5052	6,9756	0,0733	1,722	0,5002
		2013	0,4105	6,3082	0,118	0,9073	0,4903
		2014	0,535	6,1413	0,0215		0,4825
		2015	1,2456	6,0917	0,1057	0,8026	0,4805
3	ALDO	2011	1,8639	6,711	0,0513	1,0518	0,4683
		2012	1,1641	6,1694	0,3246	0,4647	0,4607
		2013	3,9252	6,62	0,0449	1,3607	0,4245
		2014	1,1475	6,7878	0,0195	1,0516	0,4241
		2015	0,806	5,745	0,0484		0,3992
4	AMFG	2011	7,3146	7,3286	0,2171	0,5103	0,3956
		2012	3,9953	6,3559	0,1636	0,7099	0,3689
		2013	1,9365	7,3307	0,0444	1,844	0,3609
		2014	3,9509	8,211	0,1391	1,0243	0,3603
		2015	0,2273	6,9688	0,0044	1,4679	0,3576
5	ASII	2011	1,1394	7,2543	0,267	0,4296	0,3574
		2012	5,1764	7,2922	0,1853	0,4632	0,3518
		2013	0,8237	6,2263	0,1065	0,3575	0,3413
		2014	6,1574	5,9103	0,1527	0,3892	0,3359
		2015	1,6968	6,4427	0,0332	1,3732	0,3295
6	BRAM	2011	2,7753	7,2512	0,0983	1,3012	0,326
		2012	0,8011	6,2311	0,1872	0,2531	0,3194
		2013	0,2912	5,9931	0,0079	1,9116	0,3173
		2014	0,6291	6,3902	0,0082	0,4677	0,3171
		2015	0,3042	5,875	0,0202	1,2959	0,3121
7	CEKA	2011	5,6672	7,4646	0,0848	0,9064	0,3098
		2012	1,3034	6,4122	0,0553	0,7257	0,3072
		2013	1,5295	7,7453	0,0631	1,0482	0,3068
		2014	1,7742	6,6082	0,0691	1,1304	0,2982
		2015	0,5375	6,3048	0,0096	1,6031	0,2946
8	CPIN	2011	0,1143	6,9999	0,0126	1,7114	0,2799
		2012	5,5601	7,4093	0,1608	0,58	0,2732
		2013	4,8629	7,6221	0,1268	0,5921	0,2715
		2014	1,19	6,4476	0,2078	0,5415	0,2691
		2015	2,7456	6,3633	0,0944	0,4439	0,2642
9	DVLA	2011	4,6469	7,2143	0,2012	0,3453	0,2634
		2012	5,406	6,3374	0,1	1,277	0,2629
		2013	4,9975	7,0216	0,0895	1,7063	0,258
		2014	0,7528	5,8067	0,0066		0,251

		2015	0,8344	6,0506	0,0568	1,2177	0,2482
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10	GGRM	2011	0,5144	6,4571	0,0393	0,8337	0,245
		2012	0,2455	7,176	0,0105	2,2633	0,2324
		2013	1,0237	6,7789	0,0412	1,2841	0,2291
		2014	3,2567	6,1277	0,1633	0,7613	0,2272
		2015	2,4832	5,3888	0,0481	1,0105	0,2247
11	ICBP	2011	1,9869	6,9862	0,0676	0,6978	0,2241
		2012	2,7473	7,7438	0,0863	0,7259	0,2231
		2013	0,535	6,221	0,0893	1,0252	0,2156
		2014	4,0754	6,6429	0,1478	0,2654	0,2135
		2015	0,7472	6,2741	0,0307	1,2802	0,2108
12	INAI	2011	0,8911	5,7536	0,0379	1,1625	0,2092
		2012	0,607	6,3577	0,1169	0,6356	0,2034
		2013	6,9061	7,2042	0,1771	0,3312	0,2014
		2014	2,1452	6,8499	0,0178	1,2778	0,2008
		2015	4,5497	6,6552	0,0797	0,6467	0,2008
13	INDF	2011	0,8301	6,5684	0,0304	1,3889	0,2006
		2012	3,3943	7,4787	0,0742	0,9651	0,1987
		2013	4,4835	7,3996	0,1075	0,6032	0,1935
		2014	2,0205	6,6383	0,0872	0,5218	0,1905
		2015	3,425	8,2743	0,1232	1,0295	0,1873
14	INDR	2011	2,1073	7,194	0,0787	1,1838	0,1841
		2012	3,7666	6,762	0,1377	0,3954	0,1841
		2013	2,5433	5,6936	0,059	1,2382	0,1835
		2014	5,296	7,0379	0,1861	0,2699	0,1766
		2015	1,461	6,2742	0,088	1,2319	0,1757
15	INDS	2011	2,5925	8,2875	0,1108	1,0152	0,174
		2012	0,9375	6,1777	0,0336	1,0587	0,174
		2013	0,7609	5,9701	0,0246		0,1716
		2014	5,0795	7,4774	0,1013	0,6563	0,1713
		2015	3,7956	7,3368	0,1284	0,4869	0,1706
16	IPOL	2011	5,9037	7,0798	0,1039	1,4767	0,1696
		2012	3,7879	6,836	0,1247	0,4	0,1673
		2013	0,0944	7,1924	0,0005	1,807	0,1668
		2014	0,9626	5,6039	0,0319	0,9288	0,1657
		2015	2,0224	6,307	0,1095	0,2392	0,162
17	JPFA	2011	6,447	6,5391	0,1156	0,3952	0,1614
		2012	3,1979	6,3125	0,1453	0,6466	0,161
		2013	0,4648	6,4252	0,0743	0,5105	0,1604
		2014	0,2069	6,4683	0,0095	0,8328	0,1595
		2015	3,8493	7,3892	0,19	0,4123	0,1585
18	KAEF	2011	1,4662	6,456	0,1113	0,2679	0,1579
		2012	2,2503	6,0364	0,1386	0,277	0,1577
		2013	2,8462	6,5722	0,0991	0,4404	0,1572
		2014	0,314	6,5423	0,0717	1,322	0,1571
		2015	1,9116	7,0224	0,0379	0,9633	0,1544

19	KBLI	2011	0,6425	6,4103	0,055	0,5079	0,1509
		2012	3,6824	6,2333	0,1355	0,6861	0,1468
		2013	3,5148	7,8142	0,0927	0,7521	0,1467
		2014	2,8307	7,2871	0,1356	0,4214	0,1393
		2015	7,3103	7,1347	0,1882	0,2776	0,1382
20	KLBF	2011	1,4	5,8722	0,0532	1,4803	0,1373
		2012	3,668	6,1978	0,1554	0,6953	0,1367
		2013	1,1005	6,5074	0,0956	0,2821	0,1361
		2014	1,3251	6,4144	0,1252	0,2542	0,134
		2015	1,2778	7,6564	0,0936	0,6952	0,1335
21	MYOR	2011	0,5778	6,2653	0,0588	0,505	0,1302
		2012	0,6452	6,1787	0,0459	1,0336	0,1254
		2013	0,5515	5,7654	0,0378		0,1248
		2014	1,8172	6,9128	0,0842	0,449	0,1237
		2015	1,9348	6,3645	0,2615	0,2141	0,1235
22	PBRX	2011	2,7485	5,4465	0,0672	0,9606	0,1232
		2012	0,1197	6,22	0,0008	0,3308	0,1188
		2013	0,7855	6,4838	0,0431	0,5953	0,1157
		2014	2,0165	6,2674	0,1195	0,1502	0,1156
		2015	3,8434	7,4312	0,1628	0,3725	0,1144
23	RICY	2011	0,3532	7,1065	0,0133	2,4639	0,1134
		2012	2,0196	6,116	0,0784	0,4137	0,1133
		2013	0,8049	6,2788	0,0331	0,3814	0,1121
		2014	0,4218	7,097	0,0276	2,4615	0,1121
		2015	2,4643	7,4305	0,1186	0,3904	0,1119
24	ROTI	2011	2,6388	6,9548	0,1135	0,4455	0,1112
		2012	6,4138	6,4487	0,146	0,4439	0,1109
		2013	1,5046	7,7007	0,082	0,7396	0,1083
		2014	2,448	6,0421	0,1057	0,301	0,1073
		2015	1,4377	7,8034	0,056	1,0845	0,1073
25	SKLT	2011	1,097	6,5649	0,117	0,2304	0,1071
		2012	2,4983	8,3047	0,0938	0,9616	0,103
		2013	5,6652	7,2525	0,1502	0,2522	0,1023
		2014	0,2101	7,1708	0,1102	1,1836	0,1022
		2015	4,8867	6,3769	0,1975	0,6845	0,1006
26	SMCB	2011		7,2398	0,1714	0,2656	0,0981
		2012	1,3514	5,8334	0,0497	1,162	0,098
		2013	1,1082	7,3983	0,0306	1,8086	0,0908
		2014	2,7844	7,8474	0,1016	0,6708	0,0908
		2015	2,597	6,6867	0,0782	0,7379	0,0903
27	SMGR	2011	5	6,8216	0,1389	0,3817	0,09
		2012	0,8386	6,5642	0,0799	0,2596	0,0898
		2013	0,3243	6,8576	0,0069	1,3269	0,0876
		2014	1,7692	5,9878	0,1303	0,2753	0,0869
		2015	2,6087	6,3227	0,0465	0,6502	0,086

28	SMSM	2011	1,5044	6,5417		0,4325	0,0826
		2012	1,5172	6,2187	0,1238	0,1082	0,0799
		2013	1,554	6,439	0,0656	0,902	0,0772
		2014	0,7865	5,5371	0,0279	0,7432	0,0745
		2015	0,8863	6,3566	0,1078	0,3746	0,0721
29	TCID	2011	1,0538	7,8066	0,0404	1,1296	0,0686
		2012	0,545	6,289	0,0076	1,1499	0,0683
		2013	2,3979	7,5016	0,1101	0,6208	0,0663
		2014	2,9185	6,2572	0,1929	0,6953	0,0654
		2015	4,0714	7,6905	0,098	0,5602	0,0619
30	TKIM	2011	0,1823	7,1513	0,0398	1,5097	0,0598
		2012	0,2816	6,0739	0,0129	1,9541	0,0549
		2013	0,098	7,172	0,0081	1,9109	0,0548
		2014	1,4961	7,3884	0,0236	1,9736	0,0545
		2015	0,8263	6,3066	0,0675	0,6077	0,0507
31	TOTO	2011	2,2149	6,8764	0,0963	0,4548	0,0492
		2012	0,337	5,7899	0,019	0,8332	0,0469
		2013	0,3893	6,4558	0,0144	0,8436	0,0424
		2014	0,6532	6,4034	0,0606	1,0248	0,0408
		2015	1,92	8,2653	0,0636	0,9397	0,0399
32	TRST	2011	0,5743	6,2711	0,056	0,2485	0,0392
		2012	1,9674	6,0429	0,0655	0,2845	0,0388
		2013	4,7449	6,5929	0,0971	0,2878	0,0375
		2014	3,1209	6,8758	0,1205	0,3534	0,0342
		2015	0,4454	6,3905	0,0075	0,7156	0,0295
33	TSPC	2011	0,7158	6,2898	0,0513	0,6173	0,0261
		2012	2,371	5,7311	0,0658	1	0,0258
		2013	0,2552	6,0457	0,0112	1,9949	0,0234
		2014	0,1716	6,9557	0,0091	1,4405	0,0221
		2015	5,9598	6,4204	0,2403	0,5254	0,0214
34	ULTJ	2011	0,5464	6,342	0,0267	1,0056	0,0177
		2012	0,9029	6,9656	0,0115	1,0499	0,0073
		2013	0,5915	6,3773	0,0524	0,4216	0,0002
		2014	0,6061	6,3993	0,0202	0,8514	0,0001
		2015	0,6975	6,0928	0,117	1,0327	-0,0319