



LAMPIRAN

Lampiran 1

Daftar Perusahaan yang Digunakan Sebagai Sampel

No	Nama Perusahaan	Kode
1	Polychem Indonesia Tbk	ADMG
2	Tiga Pilar Sejahtera Food Tbk	AISA
3	Argha Karya Prima Industry Tbk	AKPI
4	Alakasa Industrindo Tbk	ALKA
5	Alumindo Light Metal Industry Tbk	ALMI
6	Tri Banyan Tirta Tbk	ALTO
7	Asahimas Flat Glass Tbk	AMFG
8	Argo Pantes Tbk	ARGO
9	Saranacentral Bajatama Tbk	BAJA
10	Berlina Tbk	BRNA
11	Barito Pasific Tbk	BRPT
12	Bumi Teknokultura Unggul Tbk	BTEK
13	Betonjaya Manunggal Tbk	BTON
14	Central Proteina Prima Tbk	CPRO
15	Citra Tubindo Tbk	CTBN
16	Electronic City Indonesia Tbk	ECII
17	Eratex Djaja Tbk	ERTX
18	Ever Shine Tex Tbk	ESTI
19	Fajar Surya Wisesa Tbk	FASW
20	Lotte Chemical Titan Tbk	FPNI
21	Gunawan Dianjaya Steel Tbk	GDST
22	Goodyear Indonesia Tbk	GDYR
23	Gajah Tunggal Tbk	GJTL
24	Hero Supermarket Tbk	HERO
25	Inti Agri Resources Tbk	IIKP
26	Intikramik Alamasri Indonesia Tbk	IKAI
27	Indomobil Sukses Internasional Tbk	IMAS
28	Indofarma Tbk	INAF
29	Indorama Synthetics Tbk	INDR
30	Indospring Tbk	INDS
31	Toba Pulp Lestari Tbk	INRU

32	Steel Pipe Industry of Indonesia Tbk	ISSP
33	Jembo Cable Company Tbk	JECC
34	Kimia Farma Tbk	KAEF
35	Keramika Indonesia Asosiasi Tbk	KIAS
36	Kedaung Indah Can Tbk	KICI
37	Krakatau Steel (Persero) Tbk	KRAS
38	Lion Metal Works Tbk	LION
39	Langgeng Makmur Industri Tbk	LMPI
40	Lionmesh Prima Tbk	LMSH
41	Multi Prima Sejahtera Tbk	LPIN
42	Malindo Feedmill Tbk	MAIN
43	Multistrada Arah Sarana Tbk	MASA
44	Martina Berto Tbk	MBTO
45	Mulia Industrindo Tbk	MLIA
46	Mustika Ratu Tbk	MRAT
47	Asia Pacific Investama Tbk	MYTX
48	Pelat Timah Nusantara Tbk	NIKL
49	Asia Pacific Fibers Tbk	POLY
50	Prima Alloy Steel Universal Tbk	PRAS
51	Prasidha Aneka Niaga Tbk	PSDN
52	Sat Nusapersada Tbk	PTSN
53	Bentoel Internasional Investama Tbk	RMBA
54	Sierad Produce Tbk	SIPD
55	Semen Baturaja Tbk	SMBR
56	Solusi Bangun Indonesia Tbk	SMCB
57	Suparma Tbk	SPMA
58	Sunson Textile Manufacture Tbk	SSTM
59	Star Petrochem Tbk	STAR
60	SLJ Global Tbk	SULI
61	Tifico Fiber Indonesia Tbk	TFCO
62	Tirta Mahakam Resources Tbk	TIRT
63	Pabrik Kertas Tjiwi Kimia Tbk	TKIM
64	Unggul Indah Cahaya Tbk	UNIC
65	Yanaprima Hastapersada Tbk	YPAS

Lampiran 2

Data Perusahaan Sampel

No	Kode	Nama Perusahaan	Tahun	Kurs	USD		Total Laba Bersih	Total Asset	ROA
					Total LB	Total Asset			
1	ADES	Akasha Wira International Tbk	2015				32.839.000.000	653.224.000.000	0,0503
			2016				55.951.000.000	767.479.000.000	0,0729
			2017				38.242.000.000	840.236.000.000	0,0455
			2018				52.958.000.000	881.275.000.000	0,0601
			2019				83.885.000.000	822.375.000.000	0,1020
2	ADMG	Polychem Indonesia Tbk	2015	13,795	- 24.161.214	420.010.232	- 333.303.947.130	5.794.041.150.440	-0,0575
			2016	13,436	- 20.569.761	380.847.522	- 276.375.308.796	5.117.067.305.592	-0,0540
			2017	13,548	- 8.637.865	374.110.303	- 117.025.795.020	5.068.446.385.044	-0,0231
			2018	14,481	- 1.304.581	280.679.854	- 18.891.637.461	4.064.524.965.774	-0,0046
			2019	14,171	- 29.590.834	255.228.195	- 419.331.708.614	3.616.838.751.345	-0,1159
3	AGII	Aneka Gas Industri Tbk	2015				48.005.000.000	4.953.451.000.000	0,0097
			2016				64.287.000.000	5.847.722.000.000	0,0110
			2017				97.598.000.000	6.403.543.000.000	0,0152
			2018				114.374.000.000	6.647.755.000.000	0,0172
			2019				103.431.000.000	7.020.980.000.000	0,0147
4	AISA	Tiga Pilar Sejahtera Food Tbk	2015				373.750.000.000	9.060.979.000.000	0,0412
			2016				719.228.000.000	9.254.539.000.000	0,0777
			2017				- 846.809.000.000	8.724.734.000.000	-0,0971
			2018				- 123.513.000.000	1.816.406.000.000	-0,0680
			2019				1.134.776.000.000	1.868.966.000.000	0,6072
5	AKPI	Argha Karya Prima Industry Tbk	2015				27.664.714.000	2.883.143.132.000	0,0096
			2016				52.393.857.000	2.615.909.190.000	0,0200
			2017				13.333.970.000	2.745.325.833.000	0,0049
			2018				64.226.271.000	3.070.410.492.000	0,0209
			2019				54.355.268.000	2.776.775.756.000	0,0196

6	ALDO	Alkindo Naratama Tbk	2015				24.079.122.338	366.010.819.198	0,0658
			2016				25.229.505.223	410.330.576.602	0,0615
			2017				29.035.395.397	498.701.656.995	0,0582
			2018				42.650.954.208	887.748.699.687	0,0480
			2019				78.421.735.355	925.114.449.507	0,0848
7	ALKA	Alakasa Industrindo Tbk	2015				- 1.175.538.000	144.628.405.000	-0,0081
			2016				516.167.000	136.618.855.000	0,0038
			2017				15.406.256.000	305.208.703.000	0,0505
			2018				22.943.498.000	648.968.295.000	0,0354
			2019				7.354.721.000	604.824.614.000	0,0122
8	ALMI	Alumindo Light Metal Industry Tbk	2015				- 53.613.905.767	2.189.037.586.057	-0,0245
			2016				- 99.931.854.409	2.153.030.503.531	-0,0464
			2017				8.446.455.684	2.376.281.796.928	0,0036
			2018				6.544.635.062	2.781.666.374.017	0,0024
			2019				- 298.808.902.797	1.725.649.624.878	-0,1732
9	ALTO	Tri Banyan Tirta Tbk	2015				- 24.345.726.797	1.180.228.072.164	-0,0206
			2016				- 26.500.565.763	1.165.093.632.823	-0,0227
			2017				- 62.849.581.665	1.109.383.971.111	-0,0567
			2018				- 33.021.220.862	1.109.843.522.344	-0,0298
			2019				- 7.383.289.239	1.103.450.087.164	-0,0067
10	AMFG	Asahimas Flat Glass Tbk	2015				341.346.000.000	4.270.275.000.000	0,0799
			2016				260.444.000.000	5.504.890.000.000	0,0473
			2017				38.569.000.000	6.267.816.000.000	0,0062
			2018				6.596.000.000	8.432.632.000.000	0,0008
			2019				- 132.223.000.000	8.738.055.000.000	-0,0151
11	AMIN	Ateliers Mecaniques D'Indonesie Tbk	2015				18.768.425.668	198.974.581.573	0,0943
			2016				32.251.863.039	252.452.307.121	0,1278
			2017				39.082.873.015	360.906.218.575	0,1083
			2018				32.352.159.254	404.722.056.954	0,0799

			2019					10.231.229.929	420.680.923.158	0,0243
12	ARGO	Argo Pantes Tbk	2015	13.795	- 10.912.669	130.251.770	-	150.540.268.855	1.796.823.167.150	-0,0838
			2016	13.436	- 25.717.177	116.157.533	-	345.535.990.172	1.560.692.613.388	-0,2214
			2017	13.548	- 14.871.847	98.459.842	-	201.483.783.156	1.333.933.939.416	-0,1510
			2018	14.481	- 8.186.633	88.323.888	-	118.550.632.473	1.279.018.222.128	-0,0927
			2019	14.171	- 7.277.027	85.032.904	-	103.122.749.617	1.205.001.282.584	-0,0856
13	ARKA	Arkha Jayanti Persada Tbk								
14	ARNA	Arwana Citramulia Tbk	2015					71.209.943.348	1.430.779.475.454	0,0498
			2016					91.375.910.975	1.543.216.299.146	0,0592
			2017					122.183.909.643	1.601.346.561.573	0,0763
			2018					158.207.798.602	1.652.905.985.730	0,0957
			2019					217.675.239.509	1.799.137.069.343	0,1210
15	ASII	Astra International Tbk	2015					15.613.000.000.000	245.435.000.000.000	0,0636
			2016					18.302.000.000.000	261.855.000.000.000	0,0699
			2017					23.165.000.000.000	295.646.000.000.000	0,0784
			2018					27.372.000.000.000	344.711.000.000.000	0,0794
			2019					26.621.000.000.000	351.958.000.000.000	0,0756
16	AUTO	Astra Otoparts Tbk	2015					322.701.000.000	14.339.110.000.000	0,0225
			2016					483.421.000.000	14.612.274.000.000	0,0331
			2017					547.781.000.000	14.762.309.000.000	0,0371
			2018					680.801.000.000	15.889.648.000.000	0,0428
			2019					816.971.000.000	16.015.709.000.000	0,0510
17	BAJA	Saranacentral Bajatama Tbk	2015				-	9.349.900.882	948.682.681.142	-0,0099
			2016					34.393.355.090	982.626.956.424	0,0350
			2017				-	22.984.761.751	946.448.936.464	-0,0243
			2018				-	96.695.781.573	901.181.796.270	-0,1073
			2019					1.112.983.748	836.870.774.001	0,0013
18	BATA	Sepatu Bata Tbk	2015					129.519.446.000	795.257.974.000	0,1629
			2016					42.231.663.000	804.742.917.000	0,0525
			2017					53.654.376.000	855.691.231.000	0,0627

			2018				67.944.867.000	876.856.225.000	0,0775
			2019				23.441.338.000	863.146.554.000	0,0272
19	BELL	Trisula Textile Industries Tbk							
20	BIMA	Primarindo Asia Infrastructure Tbk	2015				- 771.373.985	99.558.394.759	-0,0077
			2016				17.410.120.742	92.041.274.561	0,1892
			2017				15.795.652.032	89.327.328.853	0,1768
			2018				2.349.855.961	98.190.640.839	0,0239
			2019				3.048.600.900	246.536.771.775	0,0124
21	BOLT	Garuda Metalindo Tbk	2015				97.680.310.772	918.617.353.270	0,1063
			2016				108.483.415.987	938.141.687.362	0,1156
			2017				93.225.253.756	1.188.798.795.362	0,0784
			2018				75.738.099.614	1.312.376.999.120	0,0577
			2019				51.492.605.525	1.265.912.330.625	0,0407
22	BRAM	Indo Kordsa Tbk	2015	13.795	12.573.606	291.834.622	173.452.894.770	4.025.858.610.490	0,0431
			2016	13.436	22.299.582	296.060.495	299.617.183.752	3.977.868.810.820	0,0753
			2017	13.548	24.567.927	304.483.626	332.846.274.996	4.125.144.165.048	0,0807
			2018	14.481	19.377.050	296.400.018	280.599.061.050	4.292.168.660.658	0,0654
			2019	14.171	14.582.693	279.484.828	206.651.342.503	3.960.579.497.588	0,0522
23	BRNA	Berlina Tbk	2015				- 7.159.572.000	1.820.783.911.000	-0,0039
			2016				12.664.977.000	2.088.696.909.000	0,0061
			2017				- 178.283.422.000	1.964.877.082.000	-0,0907
			2018				- 23.662.406.000	2.461.326.183.000	-0,0096
			2019				- 163.083.992.000	2.263.112.918.000	-0,0721
24	BRPT	Barito Pasific Tbk	2015	13.795	5.082.000	2.253.084.000	70.106.190.000	31.081.293.780.000	0,0023
			2016	13.436	279.796.000	2.570.590.000	3.759.339.056.000	34.538.447.240.000	0,1088
			2017	13.548	279.889.000	3.642.928.000	3.791.936.172.000	49.354.388.544.000	0,0768
			2018	14.481	242.066.000	7.042.491.000	3.505.357.746.000	101.982.312.171.000	0,0344
			2019	14.171	137.380.000	7.182.435.000	1.946.811.980.000	101.782.286.385.000	0,0191
25	BTEK	Bumi Teknokultura Unggul Tbk	2015				271.896.802	495.390.442.927	0,0005
			2016				- 90.886.646.674	4.879.715.095.300	-0,0186

			2017				-	42.843.793.031	5.306.055.112.389	-0,0081
			2018					76.001.730.866	5.165.236.468.706	0,0147
			2019				-	83.843.800.594	4.975.248.130.342	-0,0169
26	BTON	Betonjaya Manunggal Tbk	2015					6.323.778.025	183.116.245.288	0,0345
			2016				-	5.974.737.984	177.290.628.918	-0,0337
			2017					11.370.927.212	183.501.650.442	0,0620
			2018					27.812.712.161	217.362.960.011	0,1280
			2019					1.367.612.129	230.561.123.774	0,0059
27	BUDI	Budi Starch and Sweetener Tbk	2015					21.072.000.000	3.265.953.000.000	0,0065
			2016					38.624.000.000	2.931.807.000.000	0,0132
			2017					45.691.000.000	2.939.456.000.000	0,0155
			2018					50.467.000.000	3.392.980.000.000	0,0149
			2019					64.021.000.000	2.999.767.000.000	0,0213
28	CAKK	Cahayaputra Asa Keramik Tbk								
29	CAMP	Campina Ice Cream Industry Tbk								
30	CCSI	Communication Cable Systems Indonesia Tbk								
31	CEKA	Cahaya Kalbar Tbk	2015					106.549.446.980	1.485.826.210.015	0,0717
			2016					249.697.013.626	1.425.964.152.418	0,1751
			2017					107.420.886.839	1.392.636.444.501	0,0771
			2018					92.649.656.775	1.168.956.042.706	0,0793
			2019					215.459.200.242	1.393.079.542.074	0,1547
32	CINT	Chitose International Tbk	2015					29.477.807.514	382.807.494.765	0,0770
			2016					20.619.309.858	399.336.626.636	0,0516
			2017					29.648.261.092	476.577.841.605	0,0622
			2018					13.554.152.161	491.382.035.136	0,0276
			2019					7.221.065.916	521.493.784.876	0,0138
33	CLEO	Sariguna Primatirta Tbk								
34	CNTX	Century Textile Industry Tbk								
35	COCO	Wahana Interfood Nusantara Tbk								

36	CPIN	Charoen Pokphand Indonesia Tbk	2015				1.832.598.000.000	24.684.915.000.000	0,0742
			2016				2.225.402.000.000	24.204.994.000.000	0,0919
			2017				2.496.787.000.000	24.522.593.000.000	0,1018
			2018				4.551.485.000.000	27.645.118.000.000	0,1646
			2019				3.632.174.000.000	29.353.041.000.000	0,1237
37	CPRO	Central Proteina Prima Tbk	2015				- 1.202.431.000.000	9.086.586.000.000	-0,1323
			2016				- 1.997.038.000.000	7.323.273.000.000	-0,2727
			2017				- 2.639.420.000.000	7.006.675.000.000	-0,3767
			2018				1.722.704.000.000	6.572.440.000.000	0,2621
			2019				- 348.863.000.000	6.000.259.000.000	-0,0581
38	CSAP	Catur Sentosa Adiprana Tbk	2015				43.021.915.000	3.522.572.851.000	0,0122
			2016				74.636.924.000	4.240.820.320.000	0,0176
			2017				89.022.191.000	5.138.259.285.000	0,0173
			2018				89.609.693.000	5.785.287.553.000	0,0155
			2019				68.480.112.000	6.584.587.023.000	0,0104
39	CTBN	Citra Tubindo Tbk	2015	13.795	8.140.945	230.679.826	112.304.336.275	3.182.228.199.670	0,0353
			2016	13.436	- 933.521	159.623.606	- 12.542.788.156	2.144.702.770.216	-0,0058
			2017	13.548	- 12.114.563	149.450.952	- 164.128.099.524	2.024.761.497.696	-0,0811
			2018	14.481	- 5.794.754	155.653.317	- 83.913.832.674	2.254.015.683.477	-0,0372
			2019	14.171	1.645.059	172.321.876	23.312.131.089	2.441.973.304.796	0,0095
40	DAJK	Dwi Aneka Jaya Kemasido Tbk							
41	DLTA	Delta Djakarta Tbk	2015				192.045.199.000	1.038.321.916.000	0,1850
			2016				254.509.268.000	1.197.796.650.000	0,2125
			2017				279.772.635.000	1.340.842.765.000	0,2087
			2018				338.129.985.000	1.523.517.170.000	0,2219
			2019				317.815.177.000	1.425.983.722.000	0,2229
42	DPNS	Duta Pertiwi Nusantara Tbk	2015				9.859.176.172	274.483.110.371	0,0359
			2016				10.009.391.103	296.129.565.784	0,0338
			2017				5.963.420.071	308.491.173.960	0,0193
			2018				9.380.137.352	322.185.012.261	0,0291

			2019					3.937.685.121	318.141.387.900	0,0124
43	DVLA	Darya Varia Laboratoria Tbk	2015					107.894.430.000	1.376.278.237.000	0,0784
			2016					152.083.400.000	1.531.365.558.000	0,0993
			2017					162.249.293.000	1.640.886.147.000	0,0989
			2018					200.651.968.000	1.682.821.739.000	0,1192
			2019					221.783.249.000	1.829.960.714.000	0,1212
44	ECII	Electronic City Indonesia Tbk	2015					33.040.983.609	1.898.418.873.433	0,0174
			2016				-	32.270.199.731	1.881.645.933.066	-0,0171
			2017				-	9.801.947.790	1.899.930.632.192	-0,0052
			2018					9.325.792.298	1.751.622.687.179	0,0053
			2019					33.269.247.689	1.845.324.374.750	0,0180
45	EKAD	Ekadharma International Tbk	2015					47.040.256.456	389.691.595.500	0,1207
			2016					90.685.821.530	702.508.630.708	0,1291
			2017					76.195.665.729	796.767.646.172	0,0956
			2018					74.045.572.552	853.267.454.400	0,0868
			2019					77.402.572.552	968.234.349.565	0,0799
46	ERTX	Eratex Djaja Tbk	2015	13.795	5.321.440	52.990.761		73.409.264.800	731.007.547.995	0,1004
			2016	13.436	1.559.355	52.658.997		20.951.493.780	707.526.283.692	0,0296
			2017	13.548	- 1.762.477	59.258.870	-	23.878.038.396	802.839.170.760	-0,0297
			2018	14.481	1.059.744	62.585.854		15.346.152.864	906.305.751.774	0,0169
			2019	14.171	841.583	71.422.968		11.926.072.693	1.012.134.879.528	0,0118
47	ESIP	Sinergi Inti Plastindo Tbk								
48	ESTI	Ever Shine Tex Tbk	2015	13.795	- 10.485.191	56.837.316	-	144.643.209.845	784.070.774.220	-0,1845
			2016	13.436	3.127.492	49.433.362		42.020.982.512	664.186.651.832	0,0633
			2017	13.548	- 1.702.399	61.559.548	-	23.064.101.652	834.008.756.304	-0,0277
			2018	14.481	1.413.112	62.027.720		20.463.274.872	898.223.413.320	0,0228
			2019	14.171	- 2.792.947	61.112.029	-	39.578.851.937	866.018.562.959	-0,0457
49	ETWA	Eterindo Wahanatama Tbk								
50	FASW	Fajar Surya Wisesa Tbk	2015					- 308.896.601.295	6.993.634.266.969	-0,0442
			2016					778.012.761.625	8.583.223.835.997	0,0906

			2017				595.868.198.714	9.369.891.776.775	0,0636
			2018				1.405.367.771.073	10.965.118.708.784	0,1282
			2019				968.833.390.696	10.751.992.944.302	0,0901
51	FOOD	Sentra Food Indonesia Tbk							
52	FPNI	Lotte Chemical Titan Tbk	2015	13.795	2.980.000	233.131.000	41.109.100.000	3.216.042.145.000	0,0128
			2016	13.436	2.169.000	204.709.000	29.142.684.000	2.750.470.124.000	0,0106
			2017	13.548	- 1.746.000	191.857.000	- 23.654.808.000	2.599.278.636.000	-0,0091
			2018	14.481	6.125.000	195.826.000	88.696.125.000	2.835.756.306.000	0,0313
			2019	14.171	- 3.286.000	165.728.000	- 46.565.906.000	2.348.531.488.000	-0,0198
53	GDST	Gunawan Dianjaya Steel Tbk	2015				- 55.212.703.852	1.183.934.183.257	-0,0466
			2016				31.704.557.018	1.257.609.869.910	0,0252
			2017				10.284.697.314	1.286.954.720.465	0,0080
			2018				- 87.798.857.709	1.351.861.756.994	-0,0649
			2019				26.807.416.721	1.758.578.169.995	0,0152
54	GDYR	Goodyear Indonesia Tbk	2015	13.795	- 110.978	119.315.863	- 1.530.941.510	1.645.962.330.085	-0,0009
			2016	13.436	1.656.125	112.840.841	22.251.695.500	1.516.129.539.676	0,0147
			2017	13.548	- 894.214	123.765.600	- 12.114.811.272	1.676.776.348.800	-0,0072
			2018	14.481	505.306	126.016.356	7.317.336.186	1.824.842.851.236	0,0040
			2019	14.171	- 1.196.792	120.360.141	- 16.959.739.432	1.705.623.558.111	-0,0099
55	GGRM	Gudang Garam Tbk	2015				6.452.834.000.000	63.505.413.000.000	0,1016
			2016				6.672.682.000.000	62.951.634.000.000	0,1060
			2017				7.755.347.000.000	66.759.930.000.000	0,1162
			2018				7.793.068.000.000	69.097.219.000.000	0,1128
			2019				10.880.704.000.000	78.647.274.000.000	0,1383
56	GGRP	Gunung Raja Paksi Tbk							
57	GJTL	Gajah Tunggal Tbk	2015				- 313.326.000.000	17.509.505.000.000	-0,0179
			2016				626.561.000.000	18.697.779.000.000	0,0335
			2017				45.028.000.000	18.191.176.000.000	0,0025
			2018				- 74.557.000.000	19.711.478.000.000	-0,0038
			2019				269.107.000.000	18.856.075.000.000	0,0143

58	GMFI	Garuda Maintenance Facility Aero Asia Tbk	2015	13.795	36.184.965	312.994.597	499.171.592.175	4.317.760.465.615	0,1156
			2016	13.436	57.742.213	442.589.107	775.824.373.868	5.946.627.241.652	0,1305
			2017	13.548	50.946.349	539.150.882	690.221.136.252	7.304.416.149.336	0,0945
			2018	14.481	11.124.991	709.424.473	161.100.994.671	10.273.175.793.513	0,0157
			2019	14.171	- 2.988.523	756.390.458	- 42.350.359.433	10.718.809.180.318	-0,0040
59	GOOD	Garudafood Putra Putri Jaya Tbk							
60	HADE	Himalaya Energi Perkasa Tbk	2015				- 1.905.600.602	292.890.614.857	-0,0065
			2016				- 70.001.678.891	95.271.115.227	-0,7348
			2017				- 29.318.582.018	74.326.458.772	-0,3945
			2018				3.707.825.019	77.618.598.764	0,0478
			2019				- 55.247.006.790	17.857.980.095	-3,0937
61	HERO	Hero Supermarket Tbk	2015				- 144.078.000.000	7.799.639.000.000	-0,0185
			2016				120.588.000.000	7.487.033.000.000	0,0161
			2017				- 191.406.000.000	7.363.144.000.000	-0,0260
			2018				- 1.250.189.000.000	6.154.748.000.000	-0,2031
			2019				70.636.000.000	6.054.384.000.000	0,0117
62	HDTX	Panasia Indo Resources Tbk							
63	HEXA	Hexindo Adiperkasa Tbk	2015	13.795	19.351.970	378.703.327	266.960.426.150	5.224.212.395.965	0,0511
			2016	13.436	7.514.289	281.604.983	100.961.987.004	3.783.644.551.588	0,0267
			2017	13.548	18.072.201	239.279.159	244.842.179.148	3.241.754.046.132	0,0755
			2018	14.481	22.549.481	283.350.512	326.539.034.361	4.103.198.764.272	0,0796
			2019	14.171	37.600.177	346.312.450	532.832.108.267	4.907.593.728.950	0,1086
64	HMSP	Hanjaya Mandala Sampoerna Tbk	2015				10.363.308.000.000	38.010.724.000.000	0,2726
			2016				12.762.229.000.000	42.508.277.000.000	0,3002
			2017				12.670.534.000.000	43.141.063.000.000	0,2937
			2018				13.538.418.000.000	46.602.420.000.000	0,2905
			2019				13.721.513.000.000	50.902.806.000.000	0,2696
65	HOKI	Buyung Poetra Sembada Tbk							
66	HRTA	Hartadinata Abadi Tbk							

67	ICBP	Indofood CBP Sukses Makmur Tbk	2015				2.923.148.000.000	26.560.624.000.000	0,1101
			2016				3.631.301.000.000	28.901.948.000.000	0,1256
			2017				3.543.173.000.000	31.619.514.000.000	0,1121
			2018				4.658.781.000.000	34.367.153.000.000	0,1356
			2019				5.360.029.000.000	38.709.314.000.000	0,1385
68	IFII	Indonesia Fibreboard Industry Tbk							
69	IGAR	Champion Pacific Indonesia Tbk	2015				51.416.184.307	383.936.040.590	0,1339
			2016				69.305.629.795	439.465.673.296	0,1577
			2017				72.376.683.136	513.022.591.574	0,1411
			2018				44.672.438.405	570.197.810.698	0,0783
			2019				60.836.752.751	617.594.780.669	0,0985
70	IIKP	Inti Agri Resources Tbk	2015				- 16.149.693.042	332.003.087.466	-0,0486
			2016				- 27.568.902.932	364.933.257.765	-0,0755
			2017				- 13.010.375.867	313.924.526.593	-0,0414
			2018				- 15.074.081.977	298.090.648.072	-0,0506
			2019				85.544.158.341	384.481.206.140	0,2225
71	IKAI	Intikramik Alamasri Indonesia Tbk	2015				- 108.888.289.285	390.042.617.783	-0,2792
			2016				- 145.359.281.909	265.028.561.223	-0,5485
			2017				- 43.578.020.000	229.825.182.000	-0,1896
			2018				71.284.346.000	1.337.016.109.000	0,0533
			2019				- 71.717.112.000	1.357.533.090.000	-0,0528
72	IKBI	Sumi Indo Kabel Tbk	2015	13.795	2.161.327	76.074.126	29.815.505.965	1.049.442.568.170	0,0284
			2016	13.436	2.153.074	76.768.386	28.928.702.264	1.031.460.034.296	0,0280
			2017	13.548	4.930.532	81.806.174	66.798.847.536	1.108.310.045.352	0,0603
			2018	14.481	1.233.587	81.407.029	17.863.573.347	1.178.855.186.949	0,0152
			2019	14.171	2.089.137	93.607.794	29.605.160.427	1.326.516.048.774	0,0223
73	IMAS	Indomobil Sukses Internasional Tbk	2015				- 22.489.430.531	24.860.957.839.497	-0,0009
			2016				- 312.881.005.784	25.633.342.258.679	-0,0122

			2017				-	64.296.811.100	31.375.311.299.854	-0,0020
			2018				-	28.472.695.467	41.044.311.290.764	-0,0007
			2019					121.769.771.786	44.698.662.588.632	0,0027
74	IMPC	Impack Pratama Industri Tbk	2015					129.759.075.975	1.675.232.685.157	0,0775
			2016					125.823.130.775	2.276.031.922.082	0,0553
			2017					91.303.491.940	2.294.677.493.483	0,0398
			2018					105.523.929.164	2.370.198.817.803	0,0445
			2019					93.145.200.039	2.501.132.856.219	0,0372
75	INAF	Indofarma Tbk	2015					6.565.707.419	1.533.708.564.241	0,0043
			2016				-	17.367.399.212	1.381.633.321.120	-0,0126
			2017				-	46.284.759.301	1.529.874.782.290	-0,0303
			2018				-	32.736.482.313	1.442.350.608.575	-0,0227
			2019					7.961.966.026	1.383.935.194.386	0,0058
76	INAI	Indal Aluminium Industry Tbk	2015					28.615.673.167	1.330.259.296.537	0,0215
			2016					35.552.975.244	1.339.032.413.455	0,0266
			2017					38.651.704.520	1.213.916.545.120	0,0318
			2018					40.463.141.352	1.400.683.598.096	0,0289
			2019					33.558.115.185	1.212.894.403.676	0,0277
77	INCF	Indo Komoditi Korpora Tbk								
78	INCI	Intan Wijaya International Tbk	2015					16.960.660.023	169.546.066.314	0,1000
			2016					9.988.836.259	269.351.381.344	0,0371
			2017					16.554.272.131	303.788.390.330	0,0545
			2018					16.675.673.703	391.362.697.956	0,0426
			2019					13.811.736.623	405.445.049.452	0,0341
79	INDF	Indofood Sukses Makmur Tbk	2015					3.709.501.000.000	91.831.526.000.000	0,0404
			2016					5.266.906.000.000	82.174.515.000.000	0,0641
			2017					5.145.063.000.000	87.939.488.000.000	0,0585
			2018					4.961.851.000.000	96.537.796.000.000	0,0514
			2019					5.902.729.000.000	96.198.559.000.000	0,0614
80	INDR	Indorama Synthetics Tbk	2015	13.795	10.108.133	804.851.296		139.441.694.735	11.102.923.628.320	0,0126

			2016	13.436	1.456.742	843.581.694	19.572.785.512	11.334.363.640.584	0,0017
			2017	13.548	2.259.101	800.108.471	30.606.300.348	10.839.869.565.108	0,0028
			2018	14.481	62.367.343	809.964.565	903.141.493.983	11.729.096.865.765	0,0770
			2019	14.171	41.626.269	753.558.270	589.885.857.999	10.678.674.244.170	0,0552
81	INDS	Indospring Tbk	2015				1.933.819.152	2.553.928.346.219	0,0008
			2016				49.556.367.334	2.477.272.502.538	0,0200
			2017				113.639.539.901	2.434.617.337.849	0,0467
			2018				110.686.883.366	2.482.337.567.967	0,0446
			2019				101.465.560.351	2.834.422.741.208	0,0358
82	INKP	Indah Kiat Pulp & Paper Tbk	2015	13.795	222.747.000	7.038.412.000	3.072.794.865.000	97.094.893.540.000	0,0316
			2016	13.436	202.755.000	6.878.800.000	2.724.216.180.000	92.423.556.800.000	0,0295
			2017	13.548	413.282.000	7.634.236.000	5.599.144.536.000	103.428.629.328.000	0,0541
			2018	14.481	588.206.000	8.751.013.000	8.517.811.086.000	126.723.419.253.000	0,0672
			2019	14.171	274.390.000	8.502.050.000	3.888.380.690.000	120.482.550.550.000	0,0323
83	INOV	Inocycle Technology Group Tbk							
84	INRU	Toba Pulp Lestari Tbk	2015	13.795	- 2.752.000	333.904.000	- 37.963.840.000	4.606.205.680.000	-0,0082
			2016	13.436	37.492.000	339.428.000	503.742.512.000	4.560.554.608.000	0,1105
			2017	13.548	- 381.000	337.585.000	- 5.161.788.000	4.573.601.580.000	-0,0011
			2018	14.481	3.936.000	411.225.000	56.997.216.000	5.954.949.225.000	0,0096
			2019	14.171	- 19.460.000	480.886.000	- 275.767.660.000	6.814.635.506.000	-0,0405
85	INTP	Indocement Tunggul Prakasa Tbk	2015				4.356.661.000.000	27.638.360.000.000	0,1576
			2016				3.870.319.000.000	30.150.580.000.000	0,1284
			2017				1.859.818.000.000	28.863.676.000.000	0,0644
			2018				1.145.937.000.000	27.788.562.000.000	0,0412
			2019				1.835.305.000.000	27.707.749.000.000	0,0662
86	IPOL	Indopoly Swakarsa Industry Tbk	2015	13.795	2.664.780	280.780.071	36.760.640.100	3.873.361.079.445	0,0095
			2016	13.436	6.497.367	282.894.404	87.298.623.012	3.800.969.212.144	0,0230
			2017	13.548	2.479.426	287.793.458	33.591.263.448	3.899.025.768.984	0,0086
			2018	14.481	5.073.929	292.126.972	73.475.565.849	4.230.290.681.532	0,0174
			2019	14.171	4.510.027	277.540.954	63.911.592.617	3.933.032.859.134	0,0162

87	ISSP	Steel Pipe Industry of Indonesia Tbk	2015				158.999.000.000	5.447.784.000.000	0,0292
			2016				102.925.000.000	6.041.811.000.000	0,0170
			2017				8.634.000.000	6.269.365.000.000	0,0014
			2018				48.741.000.000	6.494.070.000.000	0,0075
			2019				185.694.000.000	6.424.507.000.000	0,0289
88	ITIC	Indonesian Tobacco Tbk							
89	JECC	Jembo Cable Company Tbk	2015				2.464.669.000	1.358.464.081.000	0,0018
			2016				132.423.161.000	1.587.210.576.000	0,0834
			2017				83.355.370.000	1.927.985.352.000	0,0432
			2018				88.428.879.000	2.102.146.140.000	0,0421
			2019				102.517.868.000	1.888.753.850.000	0,0543
90	JKSW	Jakarta Kyoei Steel Works Tbk	2015				- 23.096.657.780	265.280.458.589	-0,0871
			2016				- 2.895.181.993	273.181.586.009	-0,0106
			2017				- 3.925.258.889	252.294.581.992	-0,0156
			2018				- 48.588.147.020	190.631.006.514	-0,2549
			2019				- 1.391.297.992	180.627.821.366	-0,0077
91	JPFA	Japfa Comfeed Indonesia Tbk	2015				524.484.000.000	17.159.466.000.000	0,0306
			2016				2.171.608.000.000	19.251.026.000.000	0,1128
			2017				1.107.810.000.000	21.088.870.000.000	0,0525
			2018				2.253.201.000.000	23.038.028.000.000	0,0978
			2019				1.883.857.000.000	25.185.009.000.000	0,0748
92	JPRS	Jaya Pari Steel Tbk							
93	JSKY	Sky Energy Indonesia Tbk							
94	KAEF	Kimia Farma Tbk	2015				265.549.762.082	3.434.879.313.034	0,0773
			2016				271.597.947.663	4.612.562.541.064	0,0589
			2017				331.707.808.948	6.096.148.972.534	0,0544
			2018				535.085.323.000	11.329.090.864.000	0,0472
			2019				15.890.439.000	18.352.877.132.000	0,0009
95	KBLM	Kabelindo Murni Tbk	2015				12.760.365.612	654.385.717.061	0,0195

			2016				21.245.022.916	639.091.366.917	0,0332
			2017				43.994.949.645	1.235.198.847.468	0,0356
			2018				40.675.096.628	1.298.358.478.375	0,0313
			2019				38.648.269.147	1.284.437.358.420	0,0301
96	KBLI	KMI Wire & Cable Tbk	2015				115.371.098.970	1.551.799.840.976	0,0743
			2016				334.338.838.592	1.871.422.416.044	0,1787
			2017				358.974.051.474	3.013.760.616.985	0,1191
			2018				235.651.063.203	3.244.821.647.076	0,0726
			2019				394.950.161.188	3.556.474.711.037	0,1111
97	KBRI	Kertas Basuki Rachmat Indonesia Tbk							
98	KDSI	Kedawung Setia Industrial Tbk	2015				11.470.563.293	1.177.093.668.866	0,0097
			2016				47.127.349.067	1.142.273.020.550	0,0413
			2017				68.965.208.549	1.328.291.727.616	0,0519
			2018				76.761.902.211	1.391.416.464.512	0,0552
			2019				64.090.903.507	1.253.650.408.375	0,0511
99	KEJU	Mulia Boga Raya Tbk							
100	KIAS	Keramika Indonesia Assosiasi Tbk	2015				- 163.719.244.899	2.124.390.696.519	-0,0771
			2016				- 252.499.070.120	1.859.669.927.962	-0,1358
			2017				- 85.300.976.555	1.767.603.505.697	-0,0483
			2018				- 79.206.468.705	1.704.424.579.208	-0,0465
			2019				- 494.426.816.904	1.231.680.564.971	-0,4014
101	KICI	Kedaung Indah Can Tbk	2015				- 13.000.883.220	133.831.888.816	-0,0971
			2016				362.936.663	139.809.135.385	0,0026
			2017				7.946.916.114	149.420.009.884	0,0532
			2018				- 873.742.659	154.088.747.766	-0,0057
			2019				- 3.172.619.509	152.818.996.760	-0,0208
102	KINO	Kino Indonesia Tbk	2015				263.031.112.748	3.211.234.658.570	0,0819
			2016				181.110.153.810	3.284.504.424.358	0,0551
			2017				109.696.001.798	3.237.595.219.274	0,0339

			2018					150.116.045.042	3.592.164.205.408	0,0418
			2019					515.603.339.649	4.695.764.958.883	0,1098
103	KLBF	Kalbe Farma Tbk	2015					2.057.694.281.873	13.696.417.381.439	0,1502
			2016					2.350.884.933.551	15.226.009.210.657	0,1544
			2017					2.453.251.410.604	16.616.239.416.335	0,1476
			2018					2.497.261.964.757	18.146.206.145.369	0,1376
			2019					2.537.601.823.645	20.264.726.862.584	0,1252
104	KMTR	Kirana Megatara Tbk								
105	KPAL	Steadfast Marine Tbk								
106	KPAS	Cottonindo Ariesta Tbk								
107	KRAH	Grand Kartech Tbk								
108	KRAS	Krakatau Steel (Persero) Tbk	2015	13.795	- 326.514.000	3.702.144.000	- 4.504.260.630.000	51.071.076.480.000		-0,0882
			2016	13.436	- 180.724.000	3.936.713.000	- 2.428.207.664.000	52.893.675.868.000		-0,0459
			2017	13.548	- 86.097.000	4.114.386.000	- 1.166.442.156.000	55.741.701.528.000		-0,0209
			2018	14.481	- 167.532.000	3.581.188.000	- 2.426.030.892.000	51.859.183.428.000		-0,0468
			2019	14.171	- 505.390.000	3.286.723.000	- 7.161.881.690.000	46.576.151.633.000		-0,1538
109	LION	Lion Metal Works Tbk	2015					46.018.637.487	639.330.150.373	0,0720
			2016					42.345.417.055	685.812.995.987	0,0617
			2017					9.282.943.009	681.937.947.736	0,0136
			2018					14.679.673.993	696.192.628.101	0,0211
			2019					926.463.199	688.017.892.312	0,0013
110	LMPI	Langgeng Makmur Industri Tbk	2015					3.968.046.308	793.093.512.600	0,0050
			2016					6.933.035.457	810.364.824.722	0,0086
			2017					- 31.140.558.174	834.548.374.286	-0,0373
			2018					- 46.390.704.290	786.704.752.983	-0,0590
			2019					- 41.669.593.909	737.642.257.697	-0,0565
111	LMSH	Lionmesh Prima Tbk	2015					1.944.443.395	133.782.751.041	0,0145
			2016					6.252.814.811	162.828.169.250	0,0384
			2017					12.967.113.850	161.163.426.840	0,0805
			2018					2.886.727.390	160.027.280.153	0,0180

			2019					- 18.245.567.355	147.090.641.453	-0,1240
112	LPIN	Multi Prima Sejahtera Tbk	2015					- 18.173.655.308	324.054.785.283	-0,0561
			2016					- 64.037.459.813	477.838.306.256	-0,1340
			2017					191.977.703.453	268.116.498.330	0,7160
			2018					32.755.830.588	301.596.448.818	0,1086
			2019					29.918.519.921	324.916.202.729	0,0921
113	MAIN	Malindo Feedmill Tbk	2015					- 62.097.227.000	3.962.068.064.000	-0,0157
			2016					211.960.537.000	3.826.862.840.000	0,0554
			2017					48.698.329.000	4.072.245.477.000	0,0120
			2018					284.246.878.000	4.335.844.455.000	0,0656
			2019					152.425.111.000	4.648.577.041.000	0,0328
114	MARK	Mark Dynamics Indonesia Tbk								
115	MASA	Multistrada Arah Sarana Tbk	2015	13.795	- 26.859.073	598.429.237	- 370.520.912.035	8.255.331.324.415	-0,0449	
			2016	13.436	- 6.702.209	609.745.210	- 90.050.880.124	8.192.536.641.560	-0,0110	
			2017	13.548	- 8.071.254	657.608.837	- 109.349.349.192	8.909.284.523.676	-0,0123	
			2018	14.481	- 46.545.470	557.051.444	- 674.024.951.070	8.066.661.960.564	-0,0836	
			2019	14.171	- 11.188.992	451.103.384	- 158.559.205.632	6.392.586.054.664	-0,0248	
116	MBTO	Martina Berto Tbk	2015				- 14.056.549.894	648.899.377.240	-0,0217	
			2016				8.813.611.079	709.959.168.088	0,0124	
			2017				- 24.690.826.118	780.669.761.787	-0,0316	
			2018				- 114.131.026.847	648.016.880.325	-0,1761	
			2019				- 66.945.894.110	591.063.928.037	-0,1133	
117	MERK	Merck Indonesia Tbk	2015				142.545.462.000	641.646.818.000	0,2222	
			2016				153.842.847.000	743.934.894.000	0,2068	
			2017				144.677.294.000	847.006.544.000	0,1708	
			2018				1.163.324.165.000	1.263.113.689.000	0,9210	
			2019				78.256.797.000	901.060.986.000	0,0868	
118	MGNA	Magna Investama Mandiri Tbk	2015				2.481.613.878	458.199.759.445	0,0054	
			2016				- 69.447.483.128	266.724.224.833	-0,2604	
			2017				- 35.929.339.940	226.027.673.845	-0,1590	

			2018				- 36.887.821.525	204.476.568.540	-0,1804
			2019				- 121.648.352.901	88.838.496.383	-1,3693
119	MLBI	Multi Bintang Indonesia Tbk	2015				496.909.000.000	2.100.853.000.000	0,2365
			2016				982.129.000.000	2.275.038.000.000	0,4317
			2017				1.322.067.000.000	2.510.078.000.000	0,5267
			2018				1.224.807.000.000	2.889.501.000.000	0,4239
			2019				1.206.059.000.000	2.896.950.000.000	0,4163
120	MLIA	Mulia Industrindo Tbk	2015				- 155.911.654.000	7.125.800.277.000	-0,0219
			2016				9.039.563.000	7.723.578.677.000	0,0012
			2017				47.534.072.000	5.186.685.608.000	0,0092
			2018				189.082.238.000	5.263.726.099.000	0,0359
			2019				126.773.341.000	5.758.102.626.000	0,0220
121	MOLI	Madusari Murni Indah Tbk							
122	MRAT	Mustika Ratu Tbk	2015				1.045.990.311	497.090.038.108	0,0021
			2016				5.549.465.678	483.037.173.864	0,0115
			2017				1.283.332.109	497.354.419.089	0,0026
			2018				- 2.256.476.497	511.887.783.867	-0,0044
			2019				131.836.668	532.762.947.995	0,0002
123	MYOR	Mayora Indah Tbk	2015				1.250.233.128.560	11.342.715.686.221	0,1102
			2016				1.388.676.127.665	12.922.421.859.142	0,1075
			2017				1.630.953.830.893	14.915.849.800.251	0,1093
			2018				1.760.434.280.304	17.591.706.426.634	0,1001
			2019				2.039.404.206.764	19.037.918.806.473	0,1071
124	MYTX	Asia Pacific Investama Tbk	2015				- 263.871.000.000	1.944.326.000.000	-0,1357
			2016				- 356.491.000.000	1.619.757.000.000	-0,2201
			2017				- 286.485.000.000	3.458.737.000.000	-0,0828
			2018				- 170.235.000.000	3.747.570.000.000	-0,0454
			2019				241.027.000.000	3.686.259.000.000	0,0654
125	NIKL	Pelat Timah Nusantara Tbk	2015	13.795	- 6.010.495	113.720.564	- 82.914.778.525	1.568.775.180.380	-0,0529
			2016	13.436	2.519.314	119.667.792	33.849.502.904	1.607.856.453.312	0,0211

			2017	13.548	1.359.171	126.122.841	18.414.048.708	1.708.712.249.868	0,0108
			2018	14.481	- 1.537.262	147.777.212	- 22.261.091.022	2.139.961.806.972	-0,0104
			2019	14.171	2.680.666	151.688.978	37.987.717.886	2.149.584.507.238	0,0177
126	NIPS	Nipress Tbk							
127	PANI	Pratama Abadi Nusa Industri Tbk							
128	PBID	Panca Budi Idaman Tbk							
129	PBRX	Pan Brothers Tbk	2015	13.795	8.621.497	442.841.222	118.933.551.115	6.108.994.657.490	0,0195
			2016	13.436	13.286.218	519.506.767	178.513.625.048	6.980.092.921.412	0,0256
			2017	13.548	7.816.516	573.351.293	105.898.158.768	7.767.763.317.564	0,0136
			2018	14.481	16.260.183	579.066.122	235.463.710.023	8.385.456.512.682	0,0281
			2019	14.171	17.050.942	658.393.892	241.628.899.082	9.330.099.843.532	0,0259
130	PCAR	Prima Cakrawala Abadi Tbk							
131	PEHA	Phapros Tbk							
132	PICO	Pelangi Indah Canindo Tbk	2015				14.975.406.018	605.788.310.444	0,0247
			2016				13.753.451.941	638.566.761.462	0,0215
			2017				16.824.380.227	720.238.957.745	0,0234
			2018				15.730.408.346	852.932.442.585	0,0184
			2019				7.487.452.045	1.127.616.056.633	0,0066
133	POLU	Golden Flower Tbk							
134	POLY	Asia Pacific Fibers Tbk	2015	13.795	- 17.786.672	232.495.236	- 245.367.140.240	3.207.271.780.620	-0,0765
			2016	13.436	- 11.868.369	231.149.516	- 159.463.405.884	3.105.724.896.976	-0,0513
			2017	13.548	- 4.408.564	231.566.955	- 59.727.225.072	3.137.269.106.340	-0,0190
			2018	14.481	12.832.260	238.246.828	185.823.957.060	3.450.052.316.268	0,0539
			2019	14.171	- 11.914.906	242.051.545	- 168.846.132.926	3.430.112.444.195	-0,0492
135	PRAS	Prima Alloy Steel Universal Tbk	2015				6.437.333.237	1.535.656.724.413	0,0042
			2016				- 2.690.964.318	1.596.466.547.662	-0,0017
			2017				- 3.226.268.273	1.542.243.721.302	-0,0021
			2018				6.357.160.962	1.635.543.021.515	0,0039
			2019				- 43.624.116.829	1.657.127.269.798	-0,0263
136	PSDN	Prasidha Aneka Niaga Tbk	2015				- 42.619.829.577	620.398.854.182	-0,0687

			2016					- 36.662.178.272	653.796.725.408	-0,0561
			2017					32.172.307.135	691.014.455.523	0,0466
			2018					- 46.599.426.588	697.657.400.651	-0,0668
			2019					- 25.762.573.884	763.492.320.252	-0,0337
137	PSGO	Palma Serasih Tbk								
138	PTSN	Sat Nusapersada Tbk	2015	13.795	- 2.984.332	63.515.533	- 41.168.859.940	876.196.777.735	-0,0470	
			2016	13.436	1.204.265	66.020.153	16.180.504.540	887.046.775.708	0,0182	
			2017	13.548	492.427	67.203.688	6.671.400.996	910.475.565.024	0,0073	
			2018	14.481	12.000.369	287.576.140	173.777.343.489	4.164.390.083.340	0,0417	
			2019	14.171	901.196	161.249.768	12.770.848.516	2.285.070.462.328	0,0056	
139	PURE	Trinitan Metals and Mineral Tbk								
140	PYFA	Pyridam Farma Tbk	2015				3.087.104.465	159.951.537.229	0,0193	
			2016				5.146.317.041	167.062.795.608	0,0308	
			2017				7.127.402.168	159.563.931.041	0,0447	
			2018				8.447.447.988	187.057.163.854	0,0452	
			2019				9.342.718.039	190.786.208.250	0,0490	
141	RICY	Ricky Putra Globalindo Tbk								
142	RMBA	Bentoel Internasional Investama Tbk	2015				- 1.638.538.000.000	12.667.314.000.000	-0,1294	
			2016				- 2.085.811.000.000	13.470.943.000.000	-0,1548	
			2017				- 480.063.000.000	14.083.598.000.000	-0,0341	
			2018				- 608.463.000.000	14.879.589.000.000	-0,0409	
			2019				50.612.000.000	17.000.330.000.000	0,0030	
143	ROTI	Nippon Indosari Corpindo Tbk	2015				270.538.700.440	2.706.323.637.034	0,1000	
			2016				279.777.368.831	2.919.640.858.718	0,0958	
			2017				135.364.021.139	4.559.573.709.411	0,0297	
			2018				127.171.436.363	4.393.810.380.883	0,0289	
			2019				236.518.557.420	4.682.083.844.951	0,0505	
144	SCCO	Supreme Cable Manufacturing Corporation Tbk	2015				159.119.646.125	1.773.144.328.632	0,0897	
			2016				340.593.630.534	2.449.935.491.586	0,1390	

			2017				269.730.298.809	4.014.244.589.706	0,0672
			2018				253.995.332.656	4.165.196.478.857	0,0610
			2019				303.593.922.331	4.400.655.628.146	0,0690
145	SCPI	Merck Sharp Dohme Pharma Tbk	2015				139.321.698.000	1.510.747.778.000	0,0922
			2016				134.727.271.000	1.393.083.772.000	0,0967
			2017				122.515.010.000	1.354.104.356.000	0,0905
			2018				127.091.642.000	1.635.702.779.000	0,0777
			2019				112.652.526.000	1.417.704.185.000	0,0795
146	SIDO	Industri Jamu dan Farmasi Sido Tbk	2015				437.475.000.000	2.796.111.000.000	0,1565
			2016				480.525.000.000	2.987.614.000.000	0,1608
			2017				533.799.000.000	3.158.198.000.000	0,1690
			2018				663.849.000.000	3.337.628.000.000	0,1989
			2019				807.689.000.000	3.536.898.000.000	0,2284
147	SINI	Singaraja Putra Tbk							
148	SIPD	Sierad Produce Tbk	2015				- 362.030.918.107	2.246.770.166.899	-0,1611
			2016				13.049.000.000	2.567.211.000.000	0,0051
			2017				- 354.925.000.000	2.239.699.000.000	-0,1585
			2018				25.934.000.000	2.187.879.000.000	0,0119
			2019				79.776.000.000	2.470.793.000.000	0,0323
149	SKBM	Sekar Bumi Tbk							
150	SKLT	Sekar Laut Tbk	2015				20.066.791.849	377.110.748.359	0,0532
			2016				20.646.121.074	568.239.939.951	0,0363
			2017				22.970.715.348	636.284.210.210	0,0361
			2018				31.954.131.252	747.293.725.435	0,0428
			2019				44.943.627.900	790.845.543.826	0,0568
151	SLIS	Gaya Abadi Sempurna Tbk							
152	SMBR	Semen Baturaja Tbk	2015				354.180.062.000	3.268.667.933.000	0,1084
			2016				259.090.525.000	4.368.876.996.000	0,0593
			2017				146.648.432.000	5.060.337.247.000	0,0290

			2018				76.074.721.000	5.538.079.503.000	0,0137
			2019				30.073.855.000	5.571.270.204.000	0,0054
153	SMCB	Solusi Bangun Indonesia Tbk	2015				175.127.000.000	17.370.875.000.000	0,0101
			2016				- 284.584.000.000	19.763.133.000.000	-0,0144
			2017				- 758.045.000.000	19.626.403.000.000	-0,0386
			2018				- 827.985.000.000	18.667.187.000.000	-0,0444
			2019				499.052.000.000	19.567.498.000.000	0,0255
154	SMGR	Semen Indonesia (Persero) Tbk	2015				4.525.441.038.000	38.153.118.932.000	0,1186
			2016				4.535.036.823.000	44.226.895.982.000	0,1025
			2017				2.043.025.914.000	48.963.502.966.000	0,0417
			2018				3.085.704.000.000	50.783.836.000.000	0,0608
			2019				2.371.233.000.000	79.807.067.000.000	0,0297
155	SMKL	Satyamitra Kemas Lestari Tbk							
156	SMSM	Selamat Sempurna Tbk	2015				461.307.000.000	2.220.108.000.000	0,2078
			2016				502.192.000.000	2.254.740.000.000	0,2227
			2017				555.388.000.000	2.443.341.000.000	0,2273
			2018				633.550.000.000	2.801.203.000.000	0,2262
			2019				638.676.000.000	3.106.981.000.000	0,2056
157	SPMA	Suparma Tbk	2015				- 42.597.342.144	2.185.464.365.772	-0,0195
			2016				81.063.430.679	2.158.852.415.950	0,0375
			2017				92.280.117.234	2.175.660.855.114	0,0424
			2018				82.232.722.269	2.282.845.632.924	0,0360
			2019				131.005.670.940	2.372.130.750.775	0,0552
158	SRIL	Sri Rejeki Isman Tbk	2015	13.795	55.663.929	783.346.730	767.883.900.555	10.806.268.140.350	0,0711
			2016	13.436	59.365.690	947.169.710	797.637.410.840	12.726.172.223.560	0,0627
			2017	13.548	68.035.320	1.192.901.038	921.742.515.360	16.161.423.262.824	0,0570
			2018	14.481	84.556.033	1.364.271.991	1.224.455.913.873	19.756.022.701.671	0,0620
			2019	14.171	87.652.548	1.559.251.755	1.242.124.257.708	22.096.156.620.105	0,0562
159	SRSN	Indo Acitama Tbk	2015				15.504.788.000	574.073.314.000	0,0270
			2016				11.056.051.000	717.149.704.000	0,0154

			2017				17.698.567.000	652.726.454.000	0,0271
			2018				38.735.092.000	686.777.211.000	0,0564
			2019				42.829.128.000	779.246.858.000	0,0550
160	SSTM	Sunson Textile Manufacture Tbk	2015				- 10.462.177.146	721.884.167.684	-0,0145
			2016				- 15.752.958.422	649.654.335.962	-0,0242
			2017				- 23.709.833.744	605.643.301.307	-0,0391
			2018				1.112.037.917	562.174.180.897	0,0020
			2019				- 16.266.732.177	514.765.731.890	-0,0316
161	STAR	Star Petrochem Tbk	2015				306.885.570	729.020.553.284	0,0004
			2016				462.555.307	690.187.353.961	0,0007
			2017				594.726.798	614.705.038.056	0,0010
			2018				173.591.040	615.956.006.710	0,0003
			2019				1.951.111.404	579.813.156.839	0,0034
162	STTP	Siantar Top Tbk	2015				185.705.201.171	1.919.568.037.170	0,0967
			2016				174.176.717.866	2.337.207.195.055	0,0745
			2017				216.024.079.834	2.342.432.443.196	0,0922
			2018				255.088.886.019	2.631.189.810.030	0,0969
			2019				482.590.522.840	2.881.563.083.954	0,1675
163	SULI	SLJ Global Tbk	2015	13.795	309.627	85.015.282	4.271.304.465	1.172.785.815.190	0,0036
			2016	13.436	383.448	91.571.846	5.152.007.328	1.230.359.322.856	0,0042
			2017	13.548	1.346.166	82.527.597	18.237.856.968	1.118.083.884.156	0,0163
			2018	14.481	3.267.396	101.190.118	47.315.161.476	1.465.334.098.758	0,0323
			2019	14.171	- 9.255.126	105.039.965	- 131.154.390.546	1.488.521.344.015	-0,0881
164	SWAT	Sriwahana Adityakarta Tbk							
165	TALF	Tunas Alfin Tbk							
166	TBMS	Tembaga Mulia Semanan Tbk	2015	13.795	2.174.223	130.737.763	29.993.406.285	1.803.527.440.585	0,0166
			2016	13.436	7.227.005	129.799.075	97.102.039.180	1.743.980.371.700	0,0557
			2017	13.548	7.583.671	164.820.670	102.743.574.708	2.232.990.437.160	0,0460
			2018	14.481	6.377.441	190.954.156	92.351.723.121	2.765.207.133.036	0,0334
			2019	14.171	5.931.052	153.990.491	84.048.937.892	2.182.199.247.961	0,0385

167	TCID	Mandom Indonesia Tbk	2015					544.474.278.014	2.082.096.848.703	0,2615
			2016					162.059.596.347	2.185.101.038.101	0,0742
			2017					179.126.382.068	2.361.807.189.430	0,0758
			2018					173.049.442.756	2.445.143.511.801	0,0708
			2019					145.149.344.561	2.551.192.620.939	0,0569
168	TDPM	Tridomain Performance Materials Tbk								
169	TFCO	Tifico Fiber Indonesia Tbk	2015	13.795	- 1.634.800	315.020.865	- 22.552.066.000	4.345.712.832.675	-0,0052	
			2016	13.436	6.227.268	322.283.946	83.669.572.848	4.330.207.098.456	0,0193	
			2017	13.548	3.272.209	331.168.426	44.331.887.532	4.486.669.835.448	0,0099	
			2018	14.481	- 494.963	321.852.867	- 7.167.559.203	4.660.751.367.027	-0,0015	
			2019	14.171	- 5.258.349	313.569.276	- 74.516.063.679	4.443.590.210.196	-0,0168	
170	TIRT	Tirta Mahakam Resources Tbk	2015				- 865.431.603	763.168.027.178	-0,0011	
			2016				28.988.504.757	815.997.477.795	0,0355	
			2017				1.001.385.942	859.299.056.455	0,0012	
			2018				- 36.477.174.515	923.366.433.799	-0,0395	
			2019				- 51.742.898.055	895.683.018.081	-0,0578	
171	TKIM	Pabrik Kertas Tjiwi Kimia Tbk	2015	13.795	1.452.000	2.683.873.000	20.030.340.000	37.024.028.035.000	0,0005	
			2016	13.436	7.653.000	2.491.282.000	102.825.708.000	33.472.864.952.000	0,0031	
			2017	13.548	27.310.000	2.580.875.000	369.995.880.000	34.965.694.500.000	0,0106	
			2018	14.481	245.709.000	2.965.136.000	3.558.112.029.000	42.938.134.416.000	0,0829	
			2019	14.171	166.516.000	3.062.331.000	2.359.698.236.000	43.396.292.601.000	0,0544	
172	TOTO	Surya Toto Indonesia Tbk	2015				285.236.780.659	2.439.540.859.205	0,1169	
			2016				168.564.583.718	2.581.440.938.262	0,0653	
			2017				278.935.804.544	2.826.490.815.501	0,0987	
			2018				346.692.796.102	2.897.119.790.044	0,1197	
			2019				140.597.500.915	2.918.467.252.139	0,0482	
173	TPIA	Chandra Asri Petrochemical	2015	13.795	26.256.000	1.862.386.000	362.201.520.000	25.691.614.870.000	0,0141	
			2016	13.436	300.125.000	2.129.269.000	4.032.479.500.000	28.608.858.284.000	0,1410	
			2017	13.548	319.154.000	2.987.304.000	4.323.898.392.000	40.471.994.592.000	0,1068	

			2018	14.481	182.316.000	3.173.486.000	2.640.117.996.000	45.955.250.766.000	0,0574
			2019	14.171	23.647.000	3.451.211.000	335.101.637.000	48.907.111.081.000	0,0069
174	TRIS	Trisula International Tbk							
175	TRST	Trias Sentosa Tbk	2015				25.314.103.403	3.357.359.499.954	0,0075
			2016				33.794.866.940	3.290.596.224.286	0,0103
			2017				38.199.681.742	3.332.905.936.010	0,0115
			2018				63.193.899.099	4.284.901.587.126	0,0147
			2019				38.911.968.283	4.349.022.887.699	0,0089
176	TSPC	Tempo Scan Pacific Tbk	2015				529.218.651.807	6.284.729.099.203	0,0842
			2016				545.493.536.262	6.585.807.349.438	0,0828
			2017				557.339.581.996	7.434.900.309.021	0,0750
			2018				540.378.145.887	7.869.975.060.326	0,0687
			2019				595.154.912.874	8.372.769.580.743	0,0711
177	UCID	Uni Charm Indonesia Tbk							
178	ULTJ	Ultra Jaya Milk Industry and Trading Company Tbk	2015				523.100.215.029	3.539.995.910.248	0,1478
			2016				709.826.000.000	4.239.200.000.000	0,1674
			2017				711.681.000.000	5.186.940.000.000	0,1372
			2018				701.607.000.000	5.555.871.000.000	0,1263
			2019				1.035.865.000.000	6.608.422.000.000	0,1567
179	UNIC	Unggul Indah Cahaya Tbk	2015	13.795	- 866.215	222.447.500	- 11.949.435.925	3.068.663.262.500	-0,0039
			2016	13.436	21.122.276	226.913.639	283.798.900.336	3.048.811.653.604	0,0931
			2017	13.548	11.931.399	223.746.950	161.646.593.652	3.031.323.678.600	0,0533
			2018	14.481	17.280.630	236.410.388	250.240.803.030	3.423.458.828.628	0,0731
			2019	14.171	11.388.329	219.757.421	161.384.010.259	3.114.182.412.991	0,0518
180	UNIT	Nusantara Inti Corpora Tbk							
181	UNVR	Unilever Indonesia Tbk	2015				5.851.805.000.000	15.729.945.000.000	0,3720
			2016				6.390.672.000.000	16.745.695.000.000	0,3816
			2017				7.004.562.000.000	18.906.413.000.000	0,3705
			2018				9.081.187.000.000	20.326.869.000.000	0,4468

			2019				7.392.837.000.000	20.649.371.000.000	0,3580
182	VOKS	Voksel Electric Tbk	2015				277.107.966	1.536.244.634.556	0,0002
			2016				160.045.873.393	1.668.210.094.478	0,0959
			2017				166.204.959.339	2.110.166.496.595	0,0788
			2018				105.468.744.587	2.485.382.578.010	0,0424
			2019				208.249.125.401	3.027.942.155.357	0,0688
183	WIIM	Wismilak Inti Makmur Tbk	2015				131.081.111.587	1.342.700.045.391	0,0976
			2016				106.290.306.868	1.353.634.132.275	0,0785
			2017				40.589.790.851	1.225.712.093.041	0,0331
			2018				51.142.850.919	1.255.573.914.558	0,0407
			2019				27.328.091.481	1.299.521.608.556	0,0210
184	WOOD	Integra Indocabinet Tbk							
185	WSBP	Waskita Beton Precast Tbk	2015				334.369.585.006	4.332.409.010.247	0,0772
			2016				634.819.524.892	13.734.267.485.212	0,0462
			2017				1.000.330.150.510	14.919.548.673.755	0,0670
			2018				1.103.472.788.182	15.222.388.589.814	0,0725
			2019				806.148.752.926	16.149.121.684.330	0,0499
186	WTON	Wijaya Karya Beton Tbk	2015				171.784.021.770	4.456.097.502.805	0,0386
			2016				282.148.079.843	4.663.078.318.968	0,0605
			2017				340.458.859.391	7.067.976.095.043	0,0482
			2018				486.640.174.453	8.881.778.299.672	0,0548
			2019				510.711.733.403	10.337.895.087.207	0,0494
187	YPAS	Yanaprima Hastapersada Tbk	2015				- 9.880.781.293	279.189.768.587	-0,0354
			2016				- 10.932.426.503	280.257.664.992	-0,0390
			2017				- 14.500.028.420	303.542.864.533	-0,0478
			2018				- 9.041.326.115	330.955.269.476	-0,0273
			2019				3.488.737.738	278.236.534.771	0,0125
188	ZONE	Mega Perintis Tbk							

Keterangan: Merah (Perusahaan yang Laporan Keuangannya tidak lengkap), Biru (Perusahaan Sampel) memiliki ROA < 0,005

Lampiran 3

Data Kantor Akuntan Publik

No	Kode	Tahun	Nilai	Nama KAP	Afiliasi Internasional
1	ADMG	2015	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2016	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2017	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2018	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2019	1	Imelda & Rekan	Delloitte Touche Tohmatsu
2	AISA	2015	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
		2016	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
		2017	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
		2018	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
		2019	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
3	AKPI	2015	1	Purwantono, Sarwoko & Sandjaja	Ernst & Young Global
		2016	1	Purwantono, Sarwoko & Sandjaja	Ernst & Young Global
		2017	1	Purwantono, Sarwoko & Sandjaja	Ernst & Young Global
		2018	1	Purwantono, Sarwoko & Sandjaja	Ernst & Young Global
		2019	1	Purwantono, Sarwoko & Sandjaja	Ernst & Young Global
4	ALKA	2015	0	Johannes Juara & Rekan	INAA Group
		2016	0	Johannes Juara & Rekan	INAA Group
		2017	0	Johannes Juara & Rekan	INAA Group
		2018	0	Anwar & Rekan	DFK International
		2019	0	Kanaka Puradiredja, Suhartono	Nexia International
5	ALMI	2015	0	Paul Hadiwinata, Hidajat, Arsono, Ade Fatma & Rekan	PKF International
		2016	0	Paul Hadiwinata, Hidajat, Arsono, Ade Fatma & Rekan	PKF International
		2017	0	Paul Hadiwinata, Hidajat, Arsono, Ade Fatma & Rekan	PKF International
		2018	0	Paul Hadiwinata, Hidajat, Arsono, Ade Fatma & Rekan	PKF International
		2019	0	Paul Hadiwinata, Hidajat, Arsono, Ade Fatma & Rekan	PKF International
6	ALTO	2015	0	Gideon Adi & Rekan	Parker Randall International
		2016	0	Gideon Adi & Rekan	Parker Randall International
		2017	0	Heliantoro & Rekan	Parker Randall International
		2018	0	Heliantoro & Rekan	Parker Randall International
		2019	0	Rama Wendra	Parker Randall International
7	AMFG	2015	1	Siddharta Widjaja & Rekan	KPMG International
		2016	1	Siddharta Widjaja & Rekan	KPMG International
		2017	1	Siddharta Widjaja & Rekan	KPMG International
		2018	1	Siddharta Widjaja & Rekan	KPMG International
		2019	1	Siddharta Widjaja & Rekan	KPMG International

8	ARGO	2015	0	Anwar & Rekan	DFK International
		2016	0	Anwar & Rekan	DFK International
		2017	0	Anwar & Rekan	DFK International
		2018	0	Anwar & Rekan	DFK International
		2019	0	Anwar & Rekan	DFK International
9	BAJA	2015	0	Tjahjadi & Tamara	Morison International
		2016	0	Tjahjadi & Tamara	Morison International
		2017	0	Mirawati Sensi Idris	Moore Stephens International Limited
		2018	0	Mirawati Sensi Idris	Moore Stephens International Limited
		2019	0	Mirawati Sensi Idris	Moore Stephens International Limited
10	BRNA	2015	0	Hendrawinata, Eddy Siddharta & Tanzil	Kreston International
		2016	0	Hendrawinata, Eddy Siddharta & Tanzil	Kreston International
		2017	0	Hendrawinata, Hanny Erwin & Sumargo	Kreston International
		2018	0	Hendrawinata, Hanny Erwin & Sumargo	Kreston International
		2019	0	Hendrawinata, Hanny Erwin & Sumargo	Kreston International
11	BRPT	2015	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2016	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2017	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2018	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2019	1	Imelda & Rekan	Delloitte Touche Tohmatsu
12	BTEK	2015	0	Dolly, Bambang, Sulistyanto, Dadang & Ali	BKR International
		2016	0	Morhan & Rekan	Allinial Global
		2017	0	Morhan & Rekan	Allinial Global
		2018	0	Kanaka Puradiredja, Suhartono	Nexia International
		2019	0	Kanaka Puradiredja, Suhartono	Nexia International
13	BTON	2015	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
		2016	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
		2017	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
		2018	0	Hadori Sugiarto Adi & Rekan	HLB International
		2019	0	Hadori Sugiarto Adi & Rekan	HLB International
14	CPRO	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
15	CTBN	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
16	ECII	2015	0	Mulyamin Sensi Suryanto & Lianny	Moore Stephens International Limited

		2016	0	Mirawati Sensi Idris	Moore Stephens International Limited
		2017	0	Mirawati Sensi Idris	Moore Stephens International Limited
		2018	0	Mirawati Sensi Idris	Moore Stephens International Limited
		2019	0	Mirawati Sensi Idris	Moore Stephens International Limited
17	ERTX	2015	0	Paul Hadiwinata, Hidajat, Arsono, Achmad, Suharli & Rekan	PKF International
		2016	0	Paul Hadiwinata, Hidajat, Arsono, Achmad, Suharli & Rekan	PKF International
		2017	0	Paul Hadiwinata, Hidajat, Arsono, Retno, Palilingan & Rekan	PKF International
		2018	0	Paul Hadiwinata, Hidajat, Arsono, Retno, Palilingan & Rekan	PKF International
		2019	0	Paul Hadiwinata, Hidajat, Arsono, Retno, Palilingan & Rekan	PKF International
18	ESTI	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
19	FASW	2015	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2016	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2017	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2018	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2019	1	Imelda & Rekan	Delloitte Touche Tohmatsu
20	FPNI	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
21	GDST	2015	0	Hadori Sugiarto Adi & Rekan	HLB International
		2016	0	Hadori Sugiarto Adi & Rekan	HLB International
		2017	0	Hadori Sugiarto Adi & Rekan	HLB International
		2018	0	Hadori Sugiarto Adi & Rekan	HLB International
		2019	0	Hadori Sugiarto Adi & Rekan	HLB International
22	GDYR	2015	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
		2016	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
		2017	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
		2018	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
		2019	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
23	GJTL	2015	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2016	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2017	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2018	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2019	1	Imelda & Rekan	Delloitte Touche Tohmatsu
24	HERO	2015	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers

		2016	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
		2017	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
		2018	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
		2019	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
25	IIKP	2015	0	Asep Rianita Manshur & Suharyono	IEC International
		2016	0	Budiman, Wawan, Pamudji & Rekan	Eura Audit International
		2017	0	Herman Dody Tanumihardja & Rekan	IGAL
		2018	0	Heliantoro & Rekan	Parker Randall International
		2019	0	Asep Rianita Manshur & Suharyono	IEC International
26	IKAI	2015	0	Herman Dody Tanumihardja & Rekan	IGAL
		2016	0	Herman Dody Tanumihardja & Rekan	IGAL
		2017	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2018	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2019	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
27	IMAS	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
28	INAF	2015	0	Hendrawinata, Eddy Siddharta & Tanzil	Kreston International
		2016	0	Hendrawinata, Eddy Siddharta & Tanzil	Kreston International
		2017	0	Hendrawinata, Hanny Erwin & Sumargo	Kreston International
		2018	0	Hendrawinata, Hanny Erwin & Sumargo	Kreston International
		2019	0	Husni, Mucharam & Rasidi	HMR
29	INDR	2015	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2016	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2017	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2018	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2019	1	Imelda & Rekan	Delloitte Touche Tohmatsu
30	INDS	2015	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2016	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2017	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2018	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2019	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
31	INRU	2015	0	Budiman, Wawan, Pamudji & Rekan	Eura Audit International
		2016	0	Budiman, Wawan, Pamudji & Rekan	Eura Audit International
		2017	0	Budiman, Wawan, Pamudji & Rekan	Eura Audit International
		2018	0	Budiman, Wawan, Pamudji & Rekan	Eura Audit International
		2019	0	Antadaya, Helmiansyah & Yassirli	Eura Audit International
32	ISSP	2015	0	Hadori Sugiarto Adi & Rekan	HLB International
		2016	0	Hadori Sugiarto Adi & Rekan	HLB International
		2017	0	Kanaka Puradiredja, Suhartono	Nexia International

		2018	0	Kanaka Puradiredja, Suhartono	Nexia International
		2019	0	Kanaka Puradiredja, Suhartono	Nexia International
33	JECC	2015	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2016	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2017	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2018	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2019	0	Kanaka Puradiredja, Suhartono	Nexia International
34	KAEF	2015	0	Hendrawinata, Eddy Siddharta & Tanzil	Kreston International
		2016	0	Hadori Sugiarto Adi & Rekan	HLB International
		2017	0	Hadori Sugiarto Adi & Rekan	HLB International
		2018	0	Hadori Sugiarto Adi & Rekan	HLB International
		2019	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
35	KIAS	2015	0	Mulyamin Sensi Suryanto & Lianny	Moore Stephens International Limited
		2016	1	Siddharta Widjaja & Rekan	KPMG International
		2017	1	Siddharta Widjaja & Rekan	KPMG International
		2018	1	Siddharta Widjaja & Rekan	KPMG International
		2019	1	Siddharta Widjaja & Rekan	KPMG International
36	KICI	2015	0	Paul Hadiwinata, Hidajat, Arsono, Achmad, Suharli & Rekan	PKF International
		2016	0	Paul Hadiwinata, Hidajat, Arsono, Achmad, Suharli & Rekan	PKF International
		2017	0	Paul Hadiwinata, Hidajat, Arsono, Retno, Palilingan & Rekan	PKF International
		2018	0	Paul Hadiwinata, Hidajat, Arsono, Ade Fatma & Rekan	PKF International
		2019	0	Paul Hadiwinata, Hidajat, Arsono, Ade Fatma & Rekan	PKF International
37	KRAS	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
38	LION	2015	0	Kosasih, Nurdiyaman, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2016	0	Kosasih, Nurdiyaman, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2017	0	Kosasih, Nurdiyaman, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2018	0	Kosasih, Nurdiyaman, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2019	0	Kosasih, Nurdiyaman, Mulyadi, Tjahjo & Rekan	Geneva Group International
39	LMPI	2015	0	Doli, Bambang, Sulistyanto, Dadang & Ali	BKR International
		2016	0	Hadori Sugiarto Adi & Rekan	HLB International
		2017	0	Paul Hadiwinata, Hidajat, Arsono, Retno & Rekan	PKF International
		2018	0	Teramihardja, Pradhono & Chandra	Morison International
		2019	0	Teramihardja, Pradhono & Chandra	Morison International
40	LMSH	2015	0	Kosasih, Nurdiyaman, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2016	0	Kosasih, Nurdiyaman, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2017	0	Kosasih, Nurdiyaman, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2018	0	Kosasih, Nurdiyaman, Mulyadi, Tjahjo & Rekan	Geneva Group International

		2019	0	Kosasih, Nurdiyanan, Mulyadi, Tjahjo & Rekan	Geneva Group International
41	LPIN	2015	0	Paul Hadiwinata, Hidajat, Arsono, Achmad & Rekan	PKF International
		2016	0	Paul Hadiwinata, Hidajat, Arsono, Achmad & Rekan	PKF International
		2017	0	Paul Hadiwinata, Hidajat, Arsono & Rekan	PKF International
		2018	0	Paul Hadiwinata, Hidajat, Arsono & Rekan	PKF International
		2019	0	Paul Hadiwinata, Hidajat, Arsono & Rekan	PKF International
42	MAIN	2015	0	Anwar & Rekan	DFK International
		2016	0	Anwar & Rekan	DFK International
		2017	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
		2018	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
		2019	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
43	MASA	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
44	MBTO	2015	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2016	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2017	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2018	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2019	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
45	MLIA	2015	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2016	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2017	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2018	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2019	1	Imelda & Rekan	Delloitte Touche Tohmatsu
46	MRAT	2015	0	Paul Hadiwinata, Hidajat, Arsono, Achmad & Rekan	PKF International
		2016	0	Paul Hadiwinata, Hidajat, Arsono, Achmad & Rekan	PKF International
		2017	0	Kanaka Puradiredja, Suhartono	Nexia International
		2018	0	Kanaka Puradiredja, Suhartono	Nexia International
		2019	0	Kanaka Puradiredja, Suhartono	Nexia International
47	MYTX	2015	0	Kosasih, Nurdiyanan, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2016	0	Kosasih, Nurdiyanan, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2017	0	Kosasih, Nurdiyanan, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2018	0	Kosasih, Nurdiyanan, Mulyadi, Tjahjo & Rekan	Geneva Group International
		2019	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
48	NIKL	2015	1	Siddharta Widjaja & Rekan	KPMG International
		2016	1	Siddharta Widjaja & Rekan	KPMG International
		2017	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2018	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2019	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
49	POLY	2015	0	Hendrawinata, Eddy Siddharta & Tanzil	Kreston International

		2016	0	Hendrawinata, Eddy Siddharta & Tanzil	Kreston International
		2017	0	Hendrawinata, Hanny Erwin & Sumargo	Kreston International
		2018	0	Hendrawinata, Hanny Erwin & Sumargo	Kreston International
		2019	0	Hendrawinata, Hanny Erwin & Sumargo	Kreston International
50	PRAS	2015	0	Krisnawan, Busroni, Achsin & Alamsyah	KBAA
		2016	0	Achsin Handoko Tomo	KBAA
		2017	0	Habib Basuni & Heryadi	HBS
		2018	0	Budiman, Wawan, Pamudji & Rekan	Eura Audit International
		2019	0	Maroeto & Nur Shodiq	MNS
51	PSDN	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
52	PTSN	2015	0	Johan Malonda Mustika & Rekan	Baker Tilly International
		2016	0	Joachim Poltak Lian & Rekan	The Leading Edge Alliance
		2017	0	Johan Malonda Mustika & Rekan	Baker Tilly International
		2018	0	Johan Malonda Mustika & Rekan	Baker Tilly International
		2019	0	Johan Malonda Mustika & Rekan	Baker Tilly International
53	RMBA	2015	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
		2016	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2017	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2018	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2019	0	Aryanto, Amir Jusuf, Mawar & Saptoto	RSM International
54	SIPD	2015	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2016	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2017	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2018	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
		2019	0	Tanubrata Sutanto Fahmi Bambang & Rekan	BDO Global Coordination
55	SMBR	2015	0	Doli, Bambang, Sulistyanto, Dadang & Ali	BKR International
		2016	0	Herman Dody Tanumihardja & Rekan	IGAL
		2017	0	Herman Dody Tanumihardja & Rekan	IGAL
		2018	0	Herman Dody Tanumihardja & Rekan	IGAL
		2019	0	Djoko, Sidik & Indra	Antea
56	SMCB	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2018	1	Osman Bing Satrio & Rekan	Delloitte Touche Tohmatsu
		2019	1	Tanudiredja, Wibisana, Rintis & Rekan	PricewaterhouseCoopers
57	SPMA	2015	0	Paul Hadiwinata, Hidajat, Arsono, Achmad & Rekan	PKF International
		2016	0	Hadori Sugiarto Adi & Rekan	HLB International
		2017	0	Hadori Sugiarto Adi & Rekan	HLB International

		2018	0	Hadori Sugiarto Adi & Rekan	HLB International
		2019	0	Hadori Sugiarto Adi & Rekan	HLB International
58	SSTM	2015	0	Doli, Bambang, Sulistyanto, Dadang & Ali	BKR International
		2016	0	Doli, Bambang, Sulistyanto, Dadang & Ali	BKR International
		2017	0	Ishak, Saleh, Soewondo & Rekan	ISS
		2018	0	Ishak, Saleh, Soewondo & Rekan	ISS
		2019	0	Ishak, Saleh, Soewondo & Rekan	ISS
59	STAR	2015	0	Noor Salim, Nursehan & Sinarahardja	NNS
		2016	0	Liasta, Nirwan, Syafruddin & Rekan	LNS
		2017	0	Herman Dody Tanumihardja & Rekan	IGAL
		2018	0	Herman Dody Tanumihardja & Rekan	IGAL
		2019	0	Budiman, Wawan, Pamudji & Rekan	Eura Audit International
60	SULI	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	0	Rama Wendra	Parker Randall International
61	TFCO	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
62	TIRT	2015	0	Pieter, Uways & Rekan	Kingston Sorel International
		2016	0	S Mannan, Ardiansyah & Rekan	Integra International
		2017	0	S Mannan, Ardiansyah & Rekan	Integra International
		2018	0	S Mannan, Ardiansyah & Rekan	Integra International
		2019	0	S Mannan, Ardiansyah & Rekan	Integra International
63	TKIM	2015	0	Y. Santosa & Rekan	Praxity International
		2016	0	Y. Santosa & Rekan	Praxity International
		2017	0	Y. Santosa & Rekan	Praxity International
		2018	0	Y. Santosa & Rekan	Praxity International
		2019	0	Y. Santosa & Rekan	Praxity International
64	UNIC	2015	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2016	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2017	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2018	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
		2019	1	Purwantono, Sungkoro & Surja	Ernst & Young Global
65	YPAS	2015	0	Teramihardja, Pradhono & Chandra	Morison International
		2016	0	Teramihardja, Pradhono & Chandra	Morison International
		2017	0	Teramihardja, Pradhono & Chandra	Morison International
		2018	0	Teramihardja, Pradhono & Chandra	Morison International
		2019	0	Teramihardja, Pradhono & Chandra	Morison International

Lampiran 4

Data Kualitas Audit, Leverage dan Ukuran Perusahaan

No	Kode	Tahun	Kualitas Audit	Kurs	USD		Leverage		Size	
			Dummy		Total Utang	Total Asset	Total Utang	Total Asset	Hasil	Ln Total Asset
1	ADMG	2015	1	13.795	152.242.537	420.010.232	2.100.185.797.915	5.794.041.150.440	0,3625	29,388
		2016	1	13.436	135.389.017	380.847.522	1.819.086.832.412	5.117.067.305.592	0,3555	29,264
		2017	1	13.548	134.518.424	374.110.303	1.822.455.608.352	5.068.446.385.044	0,3596	29,254
		2018	1	14.481	36.903.892	280.679.854	534.405.260.052	4.064.524.965.774	0,1315	29,033
		2019	1	14.171	47.404.827	255.228.195	671.773.803.417	3.616.838.751.345	0,1857	28,917
2	AISA	2015	0				5.094.072.000.000	9.060.979.000.000	0,5622	29,835
		2016	0				4.990.139.000.000	9.254.539.000.000	0,5392	29,856
		2017	0				5.319.855.000.000	8.724.734.000.000	0,6097	29,797
		2018	0				5.267.348.000.000	1.816.406.000.000	2,90	28,228
		2019	0				3.526.819.000.000	1.868.966.000.000	1,887	28,256
3	AKPI	2015	1				1.775.577.239.000	2.883.143.132.000	0,6158	28,690
		2016	1				1.495.874.021.000	2.615.909.190.000	0,5718	28,593
		2017	1				1.618.713.342.000	2.745.325.833.000	0,5896	28,641
		2018	1				1.836.576.739.000	2.084.567.189.000	0,881	28,366
		2019	1				1.531.819.965.000	2.776.775.756.000	0,5517	28,652
4	ALKA	2015	0				82.596.104.000	144.628.405.000	0,5711	25,697
		2016	0				75.514.424.000	136.618.855.000	0,5527	25,640
		2017	0				226.717.826.000	305.208.703.000	0,7428	26,444
		2018	0				548.236.812.000	648.968.295.000	0,8448	27,199
		2019	0				500.032.251.000	604.824.614.000	0,8267	27,128
5	ALMI	2015	0				1.623.926.585.475	2.189.037.586.057	0,7418	28,414
		2016	0				1.749.336.161.470	2.153.030.503.531	0,8125	28,398
		2017	0				1.997.411.244.539	2.376.281.796.928	0,8406	28,497

		2018	0				2.454.465.678.087	2.781.666.374.017	0,8824	28,654
		2019	0				1.723.459.522.731	1.725.649.624.878	0,9987	28,177
6	ALTO	2015	0				673.255.888.637	1.180.228.072.164	0,5704	27,797
		2016	0				684.252.214.422	1.165.093.632.823	0,5873	27,784
		2017	0				690.099.182.411	1.109.383.971.111	0,6221	27,735
		2018	0				722.716.844.799	1.109.843.522.344	0,6512	27,735
		2019	0				722.719.563.550	1.103.450.087.164	0,655	27,729
7	AMFG	2015	1				880.052.000.000	4.270.275.000.000	0,2061	29,083
		2016	1				1.905.626.000.000	5.504.890.000.000	0,3462	29,337
		2017	1				2.718.939.000.000	6.267.816.000.000	0,4338	29,466
		2018	1				4.835.966.000.000	8.432.632.000.000	0,5735	29,763
		2019	1				5.328.124.000.000	8.738.055.000.000	0,6098	29,799
8	ARGO	2015	0	13.795	161.898.277	130.251.770	2.233.386.731.215	1.796.823.167.150	1,243	28,217
		2016	0	13.436	173.148.791	116.157.533	2.326.427.155.876	1.560.692.613.388	1,4906	28,076
		2017	0	13.548	170.755.921	98.459.842	2.313.401.217.708	1.333.933.939.416	1,7343	27,919
		2018	0	14.481	168.398.426	88.323.888	2.438.577.606.906	1.279.018.222.128	1,9066	27,877
		2019	0	14.171	171.666.033	85.032.904	2.432.679.353.643	1.205.001.282.584	2,0188	27,818
9	BAJA	2015	0				787.055.068.790	948.682.681.142	0,8296	27,578
		2016	0				786.124.255.950	982.626.956.424	0,80	27,613
		2017	0				774.432.726.191	946.448.936.464	0,8183	27,576
		2018	0				824.660.447.657	901.181.796.270	0,9151	27,527
		2019	0				762.683.580.285	836.870.774.001	0,9114	27,453
10	BRNA	2015	0				992.869.623.000	1.820.783.911.000	0,55	28,230
		2016	0				1.060.343.634.000	2.088.696.909.000	0,5077	28,368
		2017	0				1.111.847.645.000	1.964.877.082.000	0,5659	28,306
		2018	0				1.338.054.621.000	2.461.326.183.000	0,5436	28,532
		2019	0				1.309.332.127.000	2.263.112.918.000	0,5786	28,448
11	BRPT	2015	1	13.795	1.057.175.000	2.253.084.000	14.583.729.125.000	31.081.293.780.000	0,4692	31,068
		2016	1	13.436	1.122.222.000	2.570.590.000	15.078.174.792.000	34.538.447.240.000	0,4366	31,173

		2017	1	13.548	1.626.029.000	3.642.928.000	22.029.440.892.000	49.354.388.544.000	0,4464	31,530
		2018	1	14.481	4.340.449.000	7.042.491.000	62.854.041.969.000	101.982.312.171.000	0,6163	32,256
		2019	1	14.171	4.426.628.000	7.182.435.000	62.729.745.388.000	101.782.286.385.000	0,6163	32,254
12	BTEK	2015	0				415.507.865.695	495.390.442.927	0,8387	26,929
		2016	0				3.462.705.880.138	4.879.715.095.300	0,7096	29,216
		2017	0				3.318.435.703.361	5.306.055.112.389	0,6254	29,300
		2018	0				2.904.707.799.327	5.165.236.468.706	0,5624	29,273
		2019	0				2.832.632.209.365	4.975.248.130.342	0,5693	29,235
13	BTON	2015	0				34.011.648.533	183.116.245.288	0,1857	25,933
		2016	0				33.757.198.849	177.290.628.918	0,1904	25,901
		2017	0				28.862.718.117	183.501.650.442	0,1573	25,935
		2018	0				34.207.731.081	217.362.960.011	0,1574	26,105
		2019	0				46.327.027.431	230.561.123.774	0,2009	26,164
14	CPRO	2015	1				7.104.203.000.000	9.086.586.000.000	0,7818	29,838
		2016	1				7.142.388.000.000	7.323.273.000.000	0,9753	29,622
		2017	1				8.787.131.000.000	7.006.675.000.000	1,2541	29,578
		2018	1				5.898.097.000.000	6.572.440.000.000	0,8974	29,514
		2019	1				5.670.767.000.000	6.000.259.000.000	0,9451	29,423
15	CTBN	2015	1	13.795	96.768.655	230.679.826	1.334.923.595.725	3.182.228.199.670	0,4195	28,789
		2016	1	13.436	42.003.025	159.623.606	564.352.643.900	2.144.702.770.216	0,2631	28,394
		2017	1	13.548	44.151.213	149.450.952	598.160.633.724	2.024.761.497.696	0,2954	28,336
		2018	1	14.481	56.917.064	155.653.317	824.216.003.784	2.254.015.683.477	0,3657	28,444
		2019	0	14.171	70.871.753	172.321.876	1.004.323.611.763	2.441.973.304.796	0,4113	28,524
16	ECII	2015	0				140.943.390.684	1.898.418.873.433	0,0742	28,272
		2016	0				153.884.348.892	1.881.645.933.066	0,0818	28,263
		2017	0				184.566.072.808	1.899.930.632.192	0,0971	28,273
		2018	0				405.075.371.341	1.751.622.687.179	0,2313	28,192
		2019	0				465.328.532.936	1.845.324.374.750	0,2522	28,244
17	ERTX	2015	0	13.795	35.854.739	52.990.761	494.616.124.505	731.007.547.995	0,6766	27,318

		2016	0	13.436	32.657.714	52.658.997	438.789.045.304	707.526.283.692	0,6202	27,285
		2017	0	13.548	41.381.863	59.258.870	560.641.479.924	802.839.170.760	0,6983	27,411
		2018	0	14.481	43.571.038	62.585.854	630.952.201.278	906.305.751.774	0,6962	27,533
		2019	0	14.171	51.860.552	71.422.968	734.915.882.392	1.012.134.879.528	0,7261	27,643
18	ESTI	2015	1	13.795	43.813.196	56.837.316	604.403.038.820	784.070.774.220	0,7709	27,388
		2016	1	13.436	33.281.750	49.433.362	447.173.593.000	664.186.651.832	0,6733	27,222
		2017	1	13.548	46.846.685	61.559.548	634.678.888.380	834.008.756.304	0,761	27,450
		2018	1	14.481	45.778.095	62.027.720	662.912.593.695	898.223.413.320	0,738	27,524
		2019	0	14.171	47.655.351	61.112.029	675.323.979.021	866.018.562.959	0,7798	27,487
19	FASW	2015	1				4.548.288.087.745	5.581.000.723.345	0,815	29,350
		2016	1				5.424.781.372.865	6.993.634.266.969	0,7757	29,576
		2017	1				6.081.574.204.386	8.583.223.835.997	0,7085	29,781
		2018	1				6.676.781.411.219	9.369.891.776.775	0,7126	29,869
		2019	1				6.059.395.120.910	10.965.118.708.784	0,5526	30,026
20	FPNI	2015	1	13.795	137.043.000	233.131.000	1.890.508.185.000	3.216.042.145.000	0,5878	28,799
		2016	1	13.436	106.765.000	204.709.000	1.434.494.540.000	2.750.470.124.000	0,5215	28,643
		2017	1	13.548	95.955.000	191.857.000	1.299.998.340.000	2.599.278.636.000	0,5001	28,586
		2018	1	14.481	93.291.000	195.826.000	1.350.946.971.000	2.835.756.306.000	0,4764	28,673
		2019	1	14.171	66.532.000	165.728.000	942.824.972.000	2.348.531.488.000	0,4015	28,485
21	GDST	2015	0				379.524.183.280	1.183.934.183.257	0,3206	27,800
		2016	0				425.486.909.790	1.257.609.869.910	0,3383	27,860
		2017	0				357.929.359.856	1.374.987.178.565	0,2603	27,949
		2018	0				455.885.354.596	1.351.861.756.994	0,3372	27,933
		2019	0				841.187.548.585	1.758.578.169.995	0,4783	28,196
22	GDYR	2015	1	13.795	63.833.766	119.315.863	880.586.801.970	1.645.962.330.085	0,535	28,129
		2016	1	13.436	50.563.392	112.840.841	679.369.734.912	1.516.129.539.676	0,4481	28,047
		2017	1	13.548	70.187.977	123.765.600	950.906.712.396	1.676.776.348.800	0,5671	28,148
		2018	1	14.481	71.622.528	126.016.356	1.037.165.827.968	1.824.842.851.236	0,5684	28,233
		2019	1	14.171	68.002.673	120.360.141	963.665.879.083	1.705.623.558.111	0,565	28,165

23	GJTL	2015	1				12.115.363.000.000	17.509.505.000.000	0,6919	30,494
		2016	1				12.849.602.000.000	18.697.779.000.000	0,6872	30,559
		2017	1				12.501.710.000.000	18.191.176.000.000	0,6872	30,532
		2018	1				13.835.648.000.000	19.711.478.000.000	0,7019	30,612
		2019	1				12.620.444.000.000	18.856.075.000.000	0,6693	30,568
24	HERO	2015	1				2.585.261.000.000	7.799.639.000.000	0,3315	29,685
		2016	1				2.029.250.000.000	7.487.033.000.000	0,271	29,644
		2017	1				2.164.401.000.000	7.363.144.000.000	0,294	29,628
		2018	1				2.330.370.000.000	6.154.748.000.000	0,3786	29,448
		2019	1				2.164.333.000.000	6.054.384.000.000	0,3575	29,432
25	IIKP	2015	0				12.858.662.155	332.003.087.466	0,0387	26,528
		2016	0				84.698.564.317	364.933.257.765	0,2321	26,623
		2017	0				25.036.566.756	313.924.526.593	0,0798	26,472
		2018	0				23.746.905.995	298.090.648.072	0,0797	26,421
		2019	0				25.039.869.959	384.481.206.140	0,0651	26,675
26	IKAI	2015	0				321.009.676.687	390.042.617.783	0,823	26,690
		2016	0				326.877.597.000	265.028.561.223	1,2334	26,303
		2017	0				335.252.238.000	229.825.182.000	1,4587	26,161
		2018	0				542.884.341.000	1.337.016.109.000	0,406	27,921
		2019	0				440.983.741.000	1.357.533.090.000	0,3248	27,937
27	IMAS	2015	1				18.163.865.982.392	24.860.957.839.497	0,7306	30,844
		2016	1				18.923.523.905.726	25.633.342.258.679	0,7382	30,875
		2017	1				22.094.058.955.142	31.440.443.615.533	0,7027	31,079
		2018	1				30.844.060.259.718	40.955.996.273.862	0,7531	31,344
		2019	1				35.290.524.968.923	44.698.662.588.632	0,7895	31,431
28	INAF	2015	0				940.999.667.498	1.533.708.564.241	0,6135	28,059
		2016	0				805.876.240.480	1.381.633.321.120	0,5833	27,954
		2017	0				1.003.464.884.586	1.529.874.782.290	0,6559	28,056
		2018	0				945.703.748.717	1.442.350.608.575	0,6557	27,997

		2019	0				878.999.867.350	1.383.935.194.386	0,6351	27,956
29	INDR	2015	1	13.795	508.012.008	804.851.296	7.008.025.650.360	11.102.923.628.320	0,6312	30,038
		2016	1	13.436	560.630.496	843.581.694	7.532.631.344.256	11.334.363.640.584	0,6646	30,059
		2017	1	13.548	515.802.535	800.108.471	6.988.092.744.180	10.839.869.565.108	0,6447	30,014
		2018	1	14.481	460.511.386	809.964.565	6.668.665.380.666	11.729.096.865.765	0,5686	30,093
		2019	1	14.171	382.129.255	753.558.270	5.415.153.672.605	10.678.674.244.170	0,5071	29,999
30	INDS	2015	0				634.889.428.231	2.553.928.346.219	0,2486	28,569
		2016	0				409.208.624.907	2.477.272.502.538	0,1652	28,538
		2017	0				289.798.419.319	2.434.617.337.849	0,119	28,521
		2018	0				288.105.732.114	2.482.337.567.967	0,1161	28,540
		2019	0				262.135.613.148	2.834.422.741.208	0,0925	28,673
31	INRU	2015	0	13.795	208.763.000	333.904.000	2.879.885.585.000	4.606.205.680.000	0,6252	29,158
		2016	0	13.436	176.929.000	339.428.000	2.377.218.044.000	4.560.554.608.000	0,5213	29,148
		2017	0	13.548	174.769.000	337.585.000	2.367.770.412.000	4.573.601.580.000	0,5177	29,151
		2018	0	14.481	241.050.000	411.225.000	3.490.645.050.000	5.954.949.225.000	0,5862	29,415
		2019	0	14.171	330.295.000	480.886.000	4.680.610.445.000	6.814.635.506.000	0,6868	29,550
32	ISSP	2015	0				2.894.972.000.000	5.447.784.000.000	0,5314	29,326
		2016	0				3.396.754.000.000	6.041.811.000.000	0,5622	29,430
		2017	0				3.428.424.000.000	6.269.365.000.000	0,5469	29,467
		2018	0				3.578.654.000.000	6.494.070.000.000	0,5511	29,502
		2019	0				3.325.841.000.000	6.424.507.000.000	0,5177	29,491
33	JECC	2015	0				990.707.822.000	1.358.464.081.000	0,7293	27,937
		2016	0				1.116.872.234.000	1.587.210.576.000	0,7037	28,093
		2017	0				1.380.623.870.000	1.927.985.352.000	0,7161	28,287
		2018	0				1.394.055.211.000	2.102.146.140.000	0,6632	28,374
		2019	0				1.132.622.125.000	2.102.146.140.000	0,5388	28,374
34	KAEF	2015	0				1.374.127.253.841	3.434.879.313.034	0,400	28,865
		2016	0				2.341.155.131.870	4.612.562.541.064	0,5076	29,160
		2017	0				3.523.628.217.406	6.096.148.972.534	0,578	29,439

		2018	0				7.182.832.797.000	11.329.090.864.000	0,634	30,058
		2019	0				10.939.950.304.000	18.352.877.132.000	0,5961	30,541
35	KIAS	2015	0				310.906.059.952	2.124.390.696.519	0,1464	28,385
		2016	1				339.639.855.817	1.859.669.927.962	0,1826	28,251
		2017	1				340.873.208.857	1.767.603.505.697	0,1928	28,201
		2018	1				349.587.345.823	1.704.424.579.208	0,2051	28,164
		2019	1				326.113.004.490	1.231.680.564.971	0,2648	27,839
36	KICI	2015	0				40.460.281.468	133.831.888.816	0,3023	25,620
		2016	0				50.799.380.910	139.809.135.385	0,3633	25,664
		2017	0				57.921.570.888	149.420.009.884	0,3876	25,730
		2018	0				59.439.145.864	154.088.747.766	0,3857	25,761
		2019	0				65.463.957.074	152.818.996.760	0,4284	25,753
37	KRAS	2015	1	13.795	1.914.040.000	3.702.144.000	26.404.181.800.000	51.071.076.480.000	0,517	31,564
		2016	1	13.436	2.097.036.000	3.936.713.000	28.175.775.696.000	52.893.675.868.000	0,5327	31,599
		2017	1	13.548	2.261.577.000	4.114.386.000	30.639.845.196.000	55.741.701.528.000	0,5497	31,652
		2018	1	14.481	2.758.419.000	3.581.188.000	39.944.665.539.000	51.859.183.428.000	0,7703	31,580
		2019	1	14.171	2.930.715.000	3.286.723.000	41.531.162.265.000	46.576.151.633.000	0,8917	31,472
38	LION	2015	0				184.730.654.202	639.330.150.373	0,2889	27,184
		2016	0				215.209.902.816	685.812.995.987	0,3138	27,254
		2017	0				229.630.859.719	681.937.947.736	0,3367	27,248
		2018	0				221.022.066.026	696.192.628.101	0,3175	27,269
		2019	0				219.318.262.582	688.017.892.312	0,3188	27,257
39	LMPI	2015	0				391.881.675.091	793.093.512.600	0,4941	27,399
		2016	0				402.192.705.158	810.364.824.722	0,4963	27,421
		2017	0				458.292.046.535	834.548.374.286	0,5491	27,450
		2018	0				456.214.088.287	786.704.752.983	0,5799	27,391
		2019	0				448.320.875.981	737.642.257.697	0,6078	27,327
40	LMSH	2015	0				21.341.373.897	133.782.751.041	0,1595	25,619
		2016	0				45.511.700.128	162.828.169.250	0,2795	25,816

		2017	0				31.541.423.763	161.163.426.840	0,1957	25,806
		2018	0				27.335.071.863	160.027.280.153	0,1708	25,799
		2019	0				33.455.177.566	147.090.641.453	0,2274	25,714
41	LPIN	2015	0				207.564.071.081	324.054.785.283	0,6405	26,504
		2016	0				426.243.285.867	477.838.306.256	0,892	26,893
		2017	0				36.654.665.747	268.116.498.330	0,1367	26,315
		2018	0				28.026.041.147	301.596.448.818	0,0929	26,432
		2019	0				21.617.419.367	324.916.202.729	0,0665	26,507
42	MAIN	2015	0				2.413.482.767.000	3.962.068.064.000	0,6091	29,008
		2016	0				2.082.189.069.000	3.826.862.840.000	0,5441	28,973
		2017	1				2.371.092.779.000	4.072.245.477.000	0,5823	29,035
		2018	1				2.439.198.361.000	4.335.844.455.000	0,5626	29,098
		2019	1				2.619.935.420.000	4.648.577.041.000	0,5636	29,168
43	MASA	2015	1	13.795	252.977.703	598.429.237	3.489.827.412.885	8.255.331.324.415	0,4227	29,742
		2016	1	13.436	270.776.948	609.745.210	3.638.159.073.328	8.192.536.641.560	0,4441	29,734
		2017	1	13.548	320.614.779	657.608.837	4.343.689.025.892	8.909.284.523.676	0,4875	29,818
		2018	1	14.481	342.656.446	557.051.444	4.962.007.994.526	8.066.661.960.564	0,6151	29,719
		2019	1	14.171	255.715.066	451.103.384	3.623.738.200.286	6.392.586.054.664	0,5669	29,486
44	MBTO	2015	0				214.685.781.274	648.899.377.240	0,3308	27,199
		2016	0				269.032.270.377	709.959.168.088	0,3789	27,288
		2017	0				367.927.139.244	780.669.761.787	0,4713	27,383
		2018	0				347.517.123.452	648.016.880.325	0,5363	27,197
		2019	0				355.892.726.298	591.063.928.037	0,6021	27,105
45	MLIA	2015	1				6.010.681.233.000	7.125.800.277.000	0,8435	29,595
		2016	1				6.110.478.983.000	7.723.578.677.000	0,7911	29,675
		2017	1				3.432.390.525.000	5.186.685.608.000	0,6618	29,277
		2018	1				3.022.358.125.000	5.263.726.099.000	0,5742	29,292
		2019	1				3.225.135.741.000	5.758.102.626.000	0,5601	29,382
46	MRAT	2015	0				120.064.018.299	497.090.038.108	0,2415	26,932

		2016	0				113.947.973.889	483.037.173.864	0,2359	26,903
		2017	0				130.623.005.085	497.354.419.089	0,2626	26,933
		2018	0				143.913.787.087	511.887.783.867	0,2811	26,961
		2019	0				164.121.422.495	532.762.947.995	0,3081	27,001
47	MYTX	2015	0				2.512.252.000.000	1.944.326.000.000	1,2921	28,296
		2016	0				2.544.730.000.000	1.619.757.000.000	1,5711	28,113
		2017	0				3.109.652.000.000	3.458.737.000.000	0,8991	28,872
		2018	0				3.508.734.000.000	3.747.570.000.000	0,9363	28,952
		2019	0				3.374.481.000.000	3.686.259.000.000	0,9154	28,936
48	NIKL	2015	1	13.795	76.251.201	113.720.564	1.051.885.317.795	1.568.775.180.380	0,6705	28,081
		2016	1	13.436	79.660.396	119.667.792	1.070.317.080.656	1.607.856.453.312	0,6657	28,106
		2017	1	13.548	84.476.044	126.122.841	1.144.481.444.112	1.708.712.249.868	0,6698	28,167
		2018	1	14.481	104.723.676	147.777.212	1.516.503.552.156	2.139.961.806.972	0,7087	28,392
		2019	1	14.171	106.049.817	151.688.978	1.502.831.956.707	2.149.584.507.238	0,6991	28,396
49	POLY	2015	0	13.795	1.157.901.961	232.495.236	15.973.257.551.995	3.207.271.780.620	4,9803	28,796
		2016	0	13.436	1.168.715.677	231.149.516	15.702.863.836.172	3.105.724.896.976	5,0561	28,764
		2017	0	13.548	1.174.807.927	231.566.955	15.916.297.794.996	3.137.269.106.340	5,0733	28,774
		2018	0	14.481	1.167.672.439	238.246.828	16.909.064.589.159	3.450.052.316.268	4,9011	28,869
		2019	0	14.171	1.183.397.441	242.051.545	16.769.925.136.411	3.430.112.444.195	4,889	28,864
50	PRAS	2015	0				811.996.927.211	1.535.656.724.413	0,5288	28,060
		2016	0				903.464.665.102	1.596.466.547.662	0,5659	28,099
		2017	0				865.838.417.894	1.542.243.721.302	0,5614	28,064
		2018	0				947.413.833.531	1.635.543.021.515	0,5793	28,123
		2019	0				1.011.402.296.454	1.657.127.269.798	0,6103	28,136
51	PSDN	2015	1				296.079.753.266	620.398.854.182	0,4772	27,154
		2016	1				373.511.385.025	653.796.725.408	0,5713	27,206
		2017	1				391.494.545.680	691.014.455.523	0,5666	27,261
		2018	1				454.760.270.998	697.657.400.651	0,6518	27,271
		2019	1				587.528.831.446	763.492.320.252	0,7695	27,361

52	PTSN	2015	0	13.795	14.448.536	63.515.533	199.317.554.120	876.196.777.735	0,2275	27,499
		2016	0	13.436	15.725.467	66.020.153	211.287.374.612	887.046.775.708	0,2382	27,511
		2017	0	13.548	16.673.407	67.203.688	225.891.318.036	910.475.565.024	0,2481	27,537
		2018	0	14.481	217.924.169	287.576.140	3.155.759.891.289	4.164.390.083.340	0,7578	29,058
		2019	0	14.171	90.698.602	161.249.768	1.285.289.888.942	2.285.070.462.328	0,5625	28,457
53	RMBA	2015	1				15.816.071.000.000	12.667.314.000.000	1,2486	30,170
		2016	1				4.029.576.000.000	13.470.943.000.000	0,2991	30,232
		2017	1				5.159.928.000.000	14.083.598.000.000	0,3664	30,276
		2018	1				6.513.618.000.000	14.879.589.000.000	0,4378	30,331
		2019	0				8.598.687.000.000	17.000.330.000.000	0,5058	30,464
54	SIPD	2015	0				1.512.527.888.605	2.246.770.166.899	0,6732	28,441
		2016	0				1.424.380.000.000	2.567.211.000.000	0,5548	28,574
		2017	0				1.448.387.000.000	2.239.699.000.000	0,6467	28,437
		2018	0				1.347.391.000.000	2.187.879.000.000	0,6158	28,414
		2019	0				1.554.580.000.000	2.470.793.000.000	0,6292	28,536
55	SMBR	2015	0				319.315.349.000	3.268.667.933.000	0,0977	28,815
		2016	0				1.248.119.294.000	4.368.876.996.000	0,2857	29,106
		2017	0				1.647.477.388.000	5.060.337.247.000	0,3256	29,252
		2018	0				2.064.408.447.000	5.538.079.503.000	0,3728	29,343
		2019	0				2.088.977.112.000	5.571.270.204.000	0,375	29,349
56	SMCB	2015	1				8.871.708.000.000	17.321.565.000.000	0,5122	30,483
		2016	1				11.702.538.000.000	19.763.133.000.000	0,5921	30,615
		2017	1				12.429.452.000.000	19.626.403.000.000	0,6333	30,608
		2018	1				12.250.837.000.000	18.667.187.000.000	0,6563	30,558
		2019	1				12.584.886.000.000	19.567.498.000.000	0,6432	30,605
57	SPMA	2015	0				1.390.005.205.106	2.185.464.365.772	0,636	28,413
		2016	0				1.047.296.887.831	2.158.852.415.950	0,4851	28,401
		2017	0				980.123.282.608	2.175.660.855.114	0,4505	28,408
		2018	0				1.028.235.953.716	2.282.845.632.924	0,4504	28,456

		2019	0				994.592.156.971	2.372.130.750.775	0,4193	28,495
58	SSTM	2015	0				477.792.694.823	721.884.167.684	0,6619	27,305
		2016	0				411.713.925.506	649.654.335.962	0,6337	27,200
		2017	0				393.177.629.585	605.643.301.307	0,6492	27,130
		2018	0				346.923.856.267	562.174.180.897	0,6171	27,055
		2019	0				314.416.806.582	514.765.731.890	0,6108	26,967
59	STAR	2015	0				239.344.544.398	729.020.553.284	0,3283	27,315
		2016	0				200.161.402.637	690.187.353.961	0,29	27,260
		2017	0				124.422.750.504	614.705.038.056	0,2024	27,144
		2018	0				124.601.429.706	332.864.525.071	0,3743	26,531
		2019	0				89.794.451.847	579.813.156.839	0,1549	27,086
60	SULI	2015	1	13.795	106.624.740	85.015.282	1.470.888.288.300	1.172.785.815.190	1,2542	27,790
		2016	1	13.436	107.014.127	91.571.846	1.437.841.810.372	1.230.359.322.856	1,1686	27,838
		2017	1	13.548	81.659.796	82.527.597	1.106.326.916.208	1.118.083.884.156	0,9895	27,743
		2018	1	14.481	96.204.401	101.190.118	1.393.135.930.881	1.465.334.098.758	0,9507	28,013
		2019	0	14.171	100.475.816	105.039.965	1.423.842.788.536	1.488.521.344.015	0,9565	28,029
61	TFCO	2015	1	13.795	29.644.011	315.020.865	408.939.131.745	4.345.712.832.675	0,0941	29,100
		2016	1	13.436	30.667.954	322.283.946	412.054.629.944	4.330.207.098.456	0,0952	29,097
		2017	1	13.548	36.461.388	331.168.426	493.978.884.624	4.486.669.835.448	0,1101	29,132
		2018	1	14.481	27.341.578	321.852.867	395.933.391.018	4.660.751.367.027	0,085	29,170
		2019	1	14.171	23.776.659	313.569.276	336.939.034.689	4.443.590.210.196	0,0758	29,122
62	TIRT	2015	0				672.006.964.821	763.168.027.178	0,8805	27,361
		2016	0				689.189.375.810	815.997.477.795	0,8446	27,428
		2017	0				735.476.711.731	859.299.056.455	0,8559	27,479
		2018	0				835.881.014.674	923.366.433.799	0,9053	27,551
		2019	0				859.736.792.345	895.683.018.081	0,9599	27,521
63	TKIM	2015	0	13.795	1.727.754.000	2.683.873.000	23.834.366.430.000	37.024.028.035.000	0,6438	31,243
		2016	0	13.436	1.554.204.000	2.491.282.000	20.882.284.944.000	33.472.864.952.000	0,6239	31,142
		2017	0	13.548	1.584.135.000	2.580.875.000	21.461.860.980.000	34.965.694.500.000	0,6138	31,185

		2018	0	14.481	1.729.951.000	2.965.136.000	25.051.420.431.000	42.938.134.416.000	0,5834	31,391
		2019	0	14.171	1.677.008.000	3.062.331.000	23.764.880.368.000	43.396.292.601.000	0,5476	31,401
64	UNIC	2015	1	13.795	81.632.548	222.447.500	1.126.120.999.660	3.068.663.262.500	0,367	28,752
		2016	1	13.436	65.725.372	226.913.639	883.086.098.192	3.048.811.653.604	0,2896	28,746
		2017	1	13.548	65.335.271	223.746.950	885.162.251.508	3.031.323.678.600	0,292	28,740
		2018	1	14.481	70.077.695	236.410.388	1.014.795.101.295	3.423.458.828.628	0,2964	28,862
		2019	1	14.171	43.552.524	219.757.421	617.182.817.604	3.114.182.412.991	0,1982	28,767
65	YPAS	2015	0				128.790.247.858	279.189.768.587	0,4613	26,355
		2016	0				138.256.225.581	280.257.664.992	0,4933	26,359
		2017	0				176.449.823.863	303.542.864.533	0,5813	26,439
		2018	0				212.804.573.009	330.955.269.476	0,643	26,525
		2019	0				156.887.406.881	278.236.534.771	0,5639	26,352

Keterangan: Perusahaan yang menggunakan mata uang dollar berjumlah 19 perusahaan

- MIN Total Utang = Rp 12.858.662.155
- MAX Total Utang = Rp 62.854.041.969.000
- MIN Total Asset = Rp 133.782.751.041
- MAX Total Asset – Rp 101.982.312.171.000

Lampiran 5

Data Abnormal Discretionary Expenses (Abn_DISC)

No	Kode	Tahun	1	x1		x2			Y		
				Total asset t-1	x1	Penjualan tahun t	Total asset t-1	x2	Biaya Diskresional	Total asset t-1	y
1	ADMG	2015	1	5.797.867.944.200	0,000	4.288.500.235.990	5.797.867.944.200	0,740	111.233.775.300	5.797.867.944.200	0,019
		2016	1	5.794.041.150.440	0,000	3.761.471.214.840	5.794.041.150.440	0,649	117.197.082.012	5.794.041.150.440	0,020
		2017	1	5.117.067.305.592	0,000	4.316.187.005.880	5.117.067.305.592	0,843	102.528.581.496	5.117.067.305.592	0,020
		2018	1	5.068.446.385.044	0,000	5.164.447.204.809	5.068.446.385.044	1,019	122.849.534.538	5.068.446.385.044	0,024
		2019	1	4.064.524.965.774	0,000	3.307.379.453.819	4.064.524.965.774	0,814	120.882.286.118	4.064.524.965.774	0,030
2	AISA	2015	1	7.373.868.000.000	0,000	6.010.895.000.000	7.373.868.000.000	0,815	539.799.000.000	7.373.868.000.000	0,073
		2016	1	9.060.979.000.000	0,000	6.545.680.000.000	9.060.979.000.000	0,722	667.537.000.000	9.060.979.000.000	0,074
		2017	1	9.254.539.000.000	0,000	4.920.632.000.000	9.254.539.000.000	0,532	916.746.000.000	9.254.539.000.000	0,099
		2018	1	8.724.734.000.000	0,000	1.583.265.000.000	8.724.734.000.000	0,181	395.353.000.000	8.724.734.000.000	0,045
		2019	1	1.816.406.000.000	0,000	1.510.427.000.000	1.816.406.000.000	0,832	538.628.000.000	1.816.406.000.000	0,297
3	AKPI	2015	1	2.227.042.590.000	0,000	2.017.466.511.000	2.227.042.590.000	0,906	110.693.839.000	2.227.042.590.000	0,050
		2016	1	2.883.143.132.000	0,000	2.047.218.639.000	2.883.143.132.000	0,710	133.801.658.000	2.883.143.132.000	0,046
		2017	1	2.615.909.190.000	0,000	2.064.857.643.000	2.615.909.190.000	0,789	113.003.334.000	2.615.909.190.000	0,043
		2018	1	2.745.325.833.000	0,000	2.387.420.036.000	2.745.325.833.000	0,870	111.934.869.000	2.745.325.833.000	0,041
		2019	1	2.776.775.756.000	0,000	2.251.123.299.000	2.776.775.756.000	0,811	133.483.917.000	2.776.775.756.000	0,048
4	ALKA	2015	1	244.879.397.000	0,000	749.146.492.000	244.879.397.000	3,059	17.242.948.000	244.879.397.000	0,070
		2016	1	144.628.405.000	0,000	1.151.605.756.000	144.628.405.000	7,963	19.972.512.000	144.628.405.000	0,138

		2017	1	136.618.855.000	0,000	1.932.783.905.000	136.618.855.000	14,147	26.240.045.000	136.618.855.000	0,192
		2018	1	305.208.703.000	0,000	3.592.798.235.000	305.208.703.000	11,772	32.698.467.000	305.208.703.000	0,107
		2019	1	604.824.614.000	0,000	2.218.385.509.000	604.824.614.000	3,668	41.195.111.000	604.824.614.000	0,068
5	ALMI	2015	1	3.212.438.981.224	0,000	3.333.329.653.540	3.212.438.981.224	1,038	92.912.045.908	3.212.438.981.224	0,029
		2016	1	2.189.037.586.057	0,000	2.461.800.368.336	2.189.037.586.057	1,125	91.733.940.882	2.189.037.586.057	0,042
		2017	1	2.153.030.503.531	0,000	3.484.905.171.484	2.153.030.503.531	1,619	89.753.569.766	2.153.030.503.531	0,042
		2018	1	2.376.281.796.928	0,000	4.422.880.456.073	2.376.281.796.928	1,861	106.503.819.566	2.376.281.796.928	0,045
		2019	1	1.725.649.624.878	0,000	2.234.124.975.480	1.725.649.624.878	1,295	79.298.797.488	1.725.649.624.878	0,046
6	ALTO	2015	1	1.236.807.511.653	0,000	301.781.831.914	1.236.807.511.653	0,244	78.501.064.628	1.236.807.511.653	0,063
		2016	1	1.180.228.072.164	0,000	296.471.502.365	1.180.228.072.164	0,251	59.963.947.829	1.180.228.072.164	0,051
		2017	1	1.165.093.632.823	0,000	262.143.990.839	1.165.093.632.823	0,225	75.168.409.306	1.165.093.632.823	0,065
		2018	1	1.109.383.971.111	0,000	290.274.839.317	1.109.383.971.111	0,262	51.717.386.683	1.109.383.971.111	0,047
		2019	1	1.109.843.522.344	0,000	343.971.642.312	1.109.843.522.344	0,310	49.851.657.372	1.109.843.522.344	0,045
7	AMFG	2015	1	3.946.125.000.000	0,000	3.665.989.000.000	3.946.125.000.000	0,929	408.312.000.000	3.946.125.000.000	0,103
		2016	1	4.270.275.000.000	0,000	3.724.075.000.000	4.270.275.000.000	0,872	407.757.000.000	4.270.275.000.000	0,095
		2017	1	5.504.890.000.000	0,000	3.885.791.000.000	5.504.890.000.000	0,706	458.327.000.000	5.504.890.000.000	0,083
		2018	1	6.267.816.000.000	0,000	4.443.262.000.000	6.267.816.000.000	0,709	499.955.000.000	6.267.816.000.000	0,080
		2019	1	8.432.632.000.000	0,000	4.289.776.000.000	8.432.632.000.000	0,509	518.863.000.000	8.432.632.000.000	0,062
8	ARGO	2015	1	1.814.130.188.440	0,000	624.417.721.495	1.814.130.188.440	0,344	73.722.383.710	1.814.130.188.440	0,041
		2016	1	1.796.823.167.150	0,000	653.927.862.752	1.796.823.167.150	0,364	66.042.467.932	1.796.823.167.150	0,037
		2017	1	1.560.692.613.388	0,000	451.405.256.532	1.560.692.613.388	0,289	50.543.631.984	1.560.692.613.388	0,032

		2018	1	1.333.933.939.416	0,000	448.999.276.176	1.333.933.939.416	0,337	49.939.451.739	1.333.933.939.416	0,037
		2019	1	1.279.018.222.128	0,000	274.938.911.578	1.279.018.222.128	0,215	30.378.670.291	1.279.018.222.128	0,024
9	BAJA	2015	1	959.445.449.616	0,000	1.251.193.634.272	959.445.449.616	1,304	14.131.331.612	959.445.449.616	0,015
		2016	1	948.682.681.142	0,000	978.840.639.564	948.682.681.142	1,032	16.419.251.478	948.682.681.142	0,017
		2017	1	982.626.956.424	0,000	1.218.317.826.843	982.626.956.424	1,240	17.013.104.075	982.626.956.424	0,017
		2018	1	946.448.936.464	0,000	1.279.809.883.694	946.448.936.464	1,352	16.199.753.660	946.448.936.464	0,017
		2019	1	901.181.796.270	0,000	1.072.625.592.333	901.181.796.270	1,190	15.436.913.887	901.181.796.270	0,017
10	BRNA	2015	1	1.334.086.016.000	0,000	1.278.353.442.000	1.334.086.016.000	0,958	114.640.105.000	1.334.086.016.000	0,086
		2016	1	1.820.783.911.000	0,000	1.364.849.405.000	1.820.783.911.000	0,750	116.735.918.000	1.820.783.911.000	0,064
		2017	1	2.088.696.909.000	0,000	1.310.440.496.000	2.088.696.909.000	0,627	133.067.539.000	2.088.696.909.000	0,064
		2018	1	1.964.877.082.000	0,000	1.319.344.703.000	1.964.877.082.000	0,671	118.885.817.000	1.964.877.082.000	0,061
		2019	1	2.461.326.183.000	0,000	1.221.535.436.000	2.461.326.183.000	0,496	132.323.268.000	2.461.326.183.000	0,054
11	BRPT	2015	1	28.927.926.240.000	0,000	19.397.687.505.000	28.927.926.240.000	0,671	1.027.893.040.000	28.927.926.240.000	0,036
		2016	1	31.081.293.780.000	0,000	26.352.120.852.000	31.081.293.780.000	0,848	1.064.386.484.000	31.081.293.780.000	0,034
		2017	1	34.538.447.240.000	0,000	33.231.171.156.000	34.538.447.240.000	0,962	1.281.654.348.000	34.538.447.240.000	0,037
		2018	1	49.354.388.544.000	0,000	44.537.198.841.000	49.354.388.544.000	0,902	2.074.200.516.000	49.354.388.544.000	0,042
		2019	1	101.982.312.171.000	0,000	34.045.345.686.000	101.982.312.171.000	0,334	2.184.034.520.000	101.982.312.171.000	0,021
12	BTEK	2015	1	443.046.469.330	0,000	49.116.023.376	443.046.469.330	0,111	44.135.920.656	443.046.469.330	0,100
		2016	1	495.390.442.927	0,000	748.088.902.523	495.390.442.927	1,510	36.658.062.016	495.390.442.927	0,074
		2017	1	4.879.715.095.300	0,000	887.141.290.201	4.879.715.095.300	0,182	48.190.631.795	4.879.715.095.300	0,010
		2018	1	5.306.055.112.389	0,000	890.045.953.988	5.306.055.112.389	0,168	41.678.254.600	5.306.055.112.389	0,008

17	ERTX	2015	1	579.706.512.880	0,000	954.364.779.530	579.706.512.880	1,646	39.960.721.430	579.706.512.880	0,069
		2016	1	731.007.547.995	0,000	947.977.665.236	731.007.547.995	1,297	42.231.134.988	731.007.547.995	0,058
		2017	1	707.526.283.692	0,000	971.002.907.880	707.526.283.692	1,372	53.968.417.356	707.526.283.692	0,076
		2018	1	802.839.170.760	0,000	1.098.665.042.058	802.839.170.760	1,368	59.842.790.424	802.839.170.760	0,075
		2019	1	906.305.751.774	0,000	1.223.828.037.095	906.305.751.774	1,350	71.401.476.273	906.305.751.774	0,079
18	ESTI	2015	1	866.377.567.560	0,000	510.145.707.805	866.377.567.560	0,589	35.773.718.210	866.377.567.560	0,041
		2016	1	784.070.774.220	0,000	472.471.149.084	784.070.774.220	0,603	35.413.627.972	784.070.774.220	0,045
		2017	1	664.186.651.832	0,000	475.876.751.520	664.186.651.832	0,716	36.778.389.804	664.186.651.832	0,055
		2018	1	834.008.756.304	0,000	521.096.120.496	834.008.756.304	0,625	41.659.172.496	834.008.756.304	0,050
		2019	1	898.223.413.320	0,000	423.632.890.534	898.223.413.320	0,472	30.502.071.359	898.223.413.320	0,034
19	FASW	2015	1	5.581.000.723.345	0,000	4.959.998.929.211	5.581.000.723.345	0,889	236.398.886.574	5.581.000.723.345	0,042
		2016	1	6.993.634.266.969	0,000	5.874.745.032.615	6.993.634.266.969	0,840	209.985.848.626	6.993.634.266.969	0,030
		2017	1	8.583.223.835.997	0,000	7.337.185.138.762	8.583.223.835.997	0,855	255.305.809.993	8.583.223.835.997	0,030
		2018	1	9.369.891.776.775	0,000	9.938.310.691.326	9.369.891.776.775	1,061	463.965.145.565	9.369.891.776.775	0,050
		2019	1	10.965.118.708.784	0,000	8.268.503.880.196	10.965.118.708.784	0,754	440.186.558.958	10.965.118.708.784	0,040
20	FPNI	2015	1	3.187.215.080.000	0,000	6.308.908.735.000	3.187.215.080.000	1,979	135.439.310.000	3.187.215.080.000	0,042
		2016	1	3.216.042.145.000	0,000	5.936.360.700.000	3.216.042.145.000	1,846	126.661.172.000	3.216.042.145.000	0,039
		2017	1	2.750.470.124.000	0,000	5.870.971.608.000	2.750.470.124.000	2,135	131.103.996.000	2.750.470.124.000	0,048
		2018	1	2.599.278.636.000	0,000	6.275.602.008.000	2.599.278.636.000	2,414	132.544.593.000	2.599.278.636.000	0,051
		2019	1	2.835.756.306.000	0,000	4.703.992.595.000	2.835.756.306.000	1,659	144.274.951.000	2.835.756.306.000	0,051
21	GDST	2015	1	1.357.932.144.522	0,000	913.792.626.540	1.357.932.144.522	0,673	76.490.955.606	1.357.932.144.522	0,056

		2016	1	1.183.934.183.257	0,000	757.282.528.180	1.183.934.183.257	0,640	63.744.147.163	1.183.934.183.257	0,054
		2017	1	1.257.609.869.910	0,000	1.404.063.752.036	1.257.609.869.910	1,116	82.683.475.634	1.257.609.869.910	0,066
		2018	1	1.374.987.178.565	0,000	1.556.287.984.166	1.374.987.178.565	1,132	104.859.344.203	1.374.987.178.565	0,076
		2019	1	1.351.861.756.994	0,000	1.852.766.916.975	1.351.861.756.994	1,371	120.031.217.834	1.351.861.756.994	0,089
22	GDYR	2015	1	1.561.198.217.560	0,000	2.129.940.164.440	1.561.198.217.560	1,364	183.969.554.405	1.561.198.217.560	0,118
		2016	1	1.645.962.330.085	0,000	2.084.872.208.472	1.645.962.330.085	1,267	188.653.505.528	1.645.962.330.085	0,115
		2017	1	1.516.129.539.676	0,000	2.184.770.923.932	1.516.129.539.676	1,441	196.679.106.888	1.516.129.539.676	0,130
		2018	1	1.676.776.348.800	0,000	2.315.920.394.529	1.676.776.348.800	1,381	197.324.810.703	1.676.776.348.800	0,118
		2019	1	1.705.623.558.111	0,000	1.974.244.740.298	1.705.623.558.111	1,157	1.008.716.654.546	1.705.623.558.111	0,591
23	GJTL	2015	1	16.122.036.000.000	0,000	12.970.237.000.000	16.122.036.000.000	0,805	1.511.812.000.000	16.122.036.000.000	0,094
		2016	1	17.509.505.000.000	0,000	13.633.556.000.000	17.509.505.000.000	0,779	1.627.053.000.000	17.509.505.000.000	0,093
		2017	1	18.697.779.000.000	0,000	14.146.918.000.000	18.697.779.000.000	0,757	1.470.417.000.000	18.697.779.000.000	0,079
		2018	1	18.191.176.000.000	0,000	15.349.939.000.000	18.191.176.000.000	0,844	1.509.765.000.000	18.191.176.000.000	0,083
		2019	1	19.711.478.000.000	0,000	15.939.421.000.000	19.711.478.000.000	0,809	1.702.624.000.000	19.711.478.000.000	0,086
24	HERO	2015	1	8.295.642.000.000	0,000	14.352.700.000.000	8.295.642.000.000	1,730	3.604.329.000.000	8.295.642.000.000	0,434
		2016	1	7.799.639.000.000	0,000	13.677.931.000.000	7.799.639.000.000	1,754	3.604.301.000.000	7.799.639.000.000	0,462
		2017	1	7.487.033.000.000	0,000	13.033.638.000.000	7.487.033.000.000	1,741	3.766.137.000.000	7.487.033.000.000	0,503
		2018	1	7.363.144.000.000	0,000	12.970.389.000.000	7.363.144.000.000	1,762	3.844.363.000.000	7.363.144.000.000	0,522
		2019	1	6.154.748.000.000	0,000	12.267.782.000.000	6.154.748.000.000	1,993	3.488.590.000.000	6.154.748.000.000	0,567
25	IIKP	2015	1	350.994.617.873	0,000	19.953.305.489	350.994.617.873	0,057	8.382.586.032	350.994.617.873	0,024
		2016	1	332.003.087.466	0,000	84.354.679.726	332.003.087.466	0,254	17.101.269.070	332.003.087.466	0,052

		2017	1	364.933.257.765	0,000	21.412.753.784	364.933.257.765	0,059	7.201.275.363	364.933.257.765	0,020
		2018	1	313.924.526.593	0,000	17.802.375.343	313.924.526.593	0,057	8.469.976.762	313.924.526.593	0,027
		2019	1	298.090.648.072	0,000	20.078.357.205	298.090.648.072	0,067	7.205.342.074	298.090.648.072	0,024
26	IKAI	2015	1	518.546.655.125	0,000	141.199.773.647	518.546.655.125	0,272	28.176.330.194	518.546.655.125	0,054
		2016	1	390.042.617.783	0,000	83.772.635.000	390.042.617.783	0,215	31.480.989.000	390.042.617.783	0,081
		2017	1	265.028.561.223	0,000	13.297.423.000	265.028.561.223	0,050	23.793.644.000	265.028.561.223	0,090
		2018	1	229.825.182.000	0,000	11.276.672.000	229.825.182.000	0,049	58.297.967.000	229.825.182.000	0,254
		2019	1	1.337.016.109.000	0,000	84.524.926.000	1.337.016.109.000	0,063	118.343.146.000	1.337.016.109.000	0,089
27	IMAS	2015	1	23.473.796.788.460	0,000	18.099.979.783.215	23.473.796.788.460	0,771	2.649.341.901.130	23.473.796.788.460	0,113
		2016	1	24.860.957.839.497	0,000	15.049.532.331.662	24.860.957.839.497	0,605	2.560.929.686.464	24.860.957.839.497	0,103
		2017	1	25.633.342.258.679	0,000	15.359.437.288.255	25.633.342.258.679	0,599	2.663.054.580.197	25.633.342.258.679	0,104
		2018	1	31.440.443.615.533	0,000	17.878.271.522.708	31.440.443.615.533	0,569	2.857.271.079.580	31.440.443.615.533	0,091
		2019	1	40.955.996.273.862	0,000	18.615.129.696.492	40.955.996.273.862	0,455	3.148.629.978.007	40.955.996.273.862	0,077
28	INAF	2015	1	1.249.763.660.131	0,000	1.621.898.667.657	1.249.763.660.131	1,298	267.643.136.056	1.249.763.660.131	0,214
		2016	1	1.533.708.564.241	0,000	1.674.702.722.328	1.533.708.564.241	1,092	291.091.819.154	1.533.708.564.241	0,190
		2017	1	1.381.633.321.120	0,000	1.631.317.499.096	1.381.633.321.120	1,181	271.794.252.207	1.381.633.321.120	0,197
		2018	1	1.529.874.782.290	0,000	1.592.979.941.258	1.529.874.782.290	1,041	277.409.869.821	1.529.874.782.290	0,181
		2019	1	1.442.350.608.575	0,000	1.359.175.249.655	1.442.350.608.575	0,942	228.179.701.654	1.442.350.608.575	0,158
29	INDR	2015	1	9.701.335.530.120	0,000	9.408.758.767.850	9.701.335.530.120	0,970	693.940.410.585	9.701.335.530.120	0,072
		2016	1	11.102.923.628.320	0,000	9.294.473.453.740	11.102.923.628.320	0,837	581.342.654.004	11.102.923.628.320	0,052
		2017	1	11.334.363.640.584	0,000	10.539.328.645.140	11.334.363.640.584	0,930	648.293.043.264	11.334.363.640.584	0,057

		2018	1	10.839.869.565.108	0,000	12.156.138.587.160	10.839.869.565.108	1,121	332.715.861.468	10.839.869.565.108	0,031
		2019	1	11.729.096.865.765	0,000	10.879.778.079.474	11.729.096.865.765	0,928	310.987.994.151	11.729.096.865.765	0,027
30	INDS	2015	1	2.282.666.078.493	0,000	1.659.505.639.261	2.282.666.078.493	0,727	148.346.936.304	2.282.666.078.493	0,065
		2016	1	2.553.928.346.219	0,000	1.637.036.790.119	2.553.928.346.219	0,641	165.103.848.567	2.553.928.346.219	0,065
		2017	1	2.477.272.502.538	0,000	1.967.982.902.772	2.477.272.502.538	0,794	210.726.443.437	2.477.272.502.538	0,085
		2018	1	2.434.617.337.849	0,000	2.400.062.227.790	2.434.617.337.849	0,986	241.294.399.187	2.434.617.337.849	0,099
		2019	1	2.482.337.567.967	0,000	2.091.491.715.532	2.482.337.567.967	0,843	215.637.392.066	2.482.337.567.967	0,087
31	INRU	2015	1	4.108.110.960.000	0,000	1.330.127.695.000	4.108.110.960.000	0,324	140.322.740.000	4.108.110.960.000	0,034
		2016	1	4.606.205.680.000	0,000	1.129.618.264.000	4.606.205.680.000	0,245	138.847.624.000	4.606.205.680.000	0,030
		2017	1	4.560.554.608.000	0,000	1.678.123.020.000	4.560.554.608.000	0,368	164.337.240.000	4.560.554.608.000	0,036
		2018	1	4.573.601.580.000	0,000	1.755.430.263.000	4.573.601.580.000	0,384	172.179.090.000	4.573.601.580.000	0,038
		2019	1	5.954.949.225.000	0,000	1.474.605.918.000	5.954.949.225.000	0,248	180.510.198.000	5.954.949.225.000	0,030
32	ISSP	2015	1	5.443.158.000.000	0,000	3.583.541.000.000	5.443.158.000.000	0,658	266.026.000.000	5.443.158.000.000	0,049
		2016	1	5.447.784.000.000	0,000	3.259.200.000.000	5.447.784.000.000	0,598	338.663.000.000	5.447.784.000.000	0,062
		2017	1	6.041.811.000.000	0,000	3.662.810.000.000	6.041.811.000.000	0,606	314.365.000.000	6.041.811.000.000	0,052
		2018	1	6.269.365.000.000	0,000	4.467.590.000.000	6.269.365.000.000	0,713	260.147.000.000	6.269.365.000.000	0,041
		2019	1	6.494.070.000.000	0,000	4.885.875.000.000	6.494.070.000.000	0,752	297.598.000.000	6.494.070.000.000	0,046
33	JECC	2015	1	1.064.129.232.000	0,000	1.663.335.876.000	1.064.129.232.000	1,563	75.152.284.000	1.064.129.232.000	0,071
		2016	1	1.358.464.081.000	0,000	2.037.784.842.000	1.358.464.081.000	1,500	110.171.489.000	1.358.464.081.000	0,081
		2017	1	1.587.210.576.000	0,000	2.184.518.893.000	1.587.210.576.000	1,376	135.791.152.000	1.587.210.576.000	0,086
		2018	1	1.927.985.352.000	0,000	3.207.579.964.000	1.927.985.352.000	1,664	126.277.792.000	1.927.985.352.000	0,065

		2019	1	2.102.146.140.000	0,000	2.926.098.892.000	2.102.146.140.000	1,392	137.294.383.000	2.102.146.140.000	0,065
34	KAEF	2015	1	3.012.778.637.568	0,000	4.860.371.483.524	3.012.778.637.568	1,613	1.227.054.498.636	3.012.778.637.568	0,407
		2016	1	3.434.879.313.034	0,000	5.811.502.656.431	3.434.879.313.034	1,692	1.479.784.404.405	3.434.879.313.034	0,431
		2017	1	4.612.562.541.064	0,000	6.255.312.383.294	4.612.562.541.064	1,356	1.791.957.725.462	4.612.562.541.064	0,388
		2018	1	6.096.148.972.534	0,000	8.459.247.287.000	6.096.148.972.534	1,388	2.596.191.418.000	6.096.148.972.534	0,426
		2019	1	11.329.090.864.000	0,000	9.400.535.476.000	11.329.090.864.000	0,830	3.211.857.197.000	11.329.090.864.000	0,284
35	KIAS	2015	1	2.268.246.639.101	0,000	800.392.438.557	2.268.246.639.101	0,353	130.484.551.476	2.268.246.639.101	0,058
		2016	1	2.124.390.696.519	0,000	863.714.584.966	2.124.390.696.519	0,407	114.274.779.936	2.124.390.696.519	0,054
		2017	1	1.859.669.927.962	0,000	810.064.124.425	1.859.669.927.962	0,436	100.072.506.995	1.859.669.927.962	0,054
		2018	1	1.767.603.505.697	0,000	875.963.168.811	1.767.603.505.697	0,496	88.135.389.648	1.767.603.505.697	0,050
		2019	1	1.704.424.579.208	0,000	735.066.462.915	1.704.424.579.208	0,431	191.117.205.252	1.704.424.579.208	0,112
36	KICI	2015	1	100.322.024.001	0,000	91.734.724.118	100.322.024.001	0,914	15.569.883.523	100.322.024.001	0,155
		2016	1	133.831.888.816	0,000	99.382.027.031	133.831.888.816	0,743	16.404.823.712	133.831.888.816	0,123
		2017	1	139.809.135.385	0,000	113.414.715.049	139.809.135.385	0,811	17.575.065.864	139.809.135.385	0,126
		2018	1	149.420.009.884	0,000	86.916.161.329	149.420.009.884	0,582	18.637.443.928	149.420.009.884	0,125
		2019	1	154.088.747.766	0,000	91.061.314.601	154.088.747.766	0,591	18.531.639.791	154.088.747.766	0,120
37	KRAS	2015	1	32.398.201.080.000	0,000	18.234.548.285.000	32.398.201.080.000	0,563	2.036.611.030.000	32.398.201.080.000	0,063
		2016	1	51.071.076.480.000	0,000	18.067.590.740.000	51.071.076.480.000	0,354	2.374.692.076.000	51.071.076.480.000	0,046
		2017	1	52.893.675.868.000	0,000	19.631.322.960.000	52.893.675.868.000	0,371	2.519.887.356.000	52.893.675.868.000	0,048
		2018	1	55.741.701.528.000	0,000	25.223.686.407.000	55.741.701.528.000	0,453	2.342.316.231.000	55.741.701.528.000	0,042
		2019	1	51.859.183.428.000	0,000	20.129.905.500.000	51.859.183.428.000	0,388	3.056.783.897.000	51.859.183.428.000	0,059

38	LION	2015	1	605.165.911.239	0,000	389.251.192.409	605.165.911.239	0,643	104.130.916.381	605.165.911.239	0,172
		2016	1	639.330.150.373	0,000	379.137.149.036	639.330.150.373	0,593	105.204.261.055	639.330.150.373	0,165
		2017	1	685.812.995.987	0,000	349.690.796.141	685.812.995.987	0,510	109.909.582.337	685.812.995.987	0,160
		2018	1	681.937.947.736	0,000	424.128.420.727	681.937.947.736	0,622	141.485.987.870	681.937.947.736	0,207
		2019	1	696.192.628.101	0,000	372.489.022.928	696.192.628.101	0,535	129.485.349.102	696.192.628.101	0,186
39	LMPI	2015	1	808.892.238.344	0,000	452.693.585.202	808.892.238.344	0,560	61.670.777.066	808.892.238.344	0,076
		2016	1	793.093.512.600	0,000	411.945.398.299	793.093.512.600	0,519	69.572.599.520	793.093.512.600	0,088
		2017	1	810.364.824.722	0,000	411.144.165.006	810.364.824.722	0,507	78.326.586.880	810.364.824.722	0,097
		2018	1	834.548.374.286	0,000	455.555.959.093	834.548.374.286	0,546	68.631.756.720	834.548.374.286	0,082
		2019	1	786.704.752.983	0,000	517.512.379.678	786.704.752.983	0,658	71.044.769.701	786.704.752.983	0,090
40	LMSH	2015	1	141.034.984.628	0,000	174.598.965.938	141.034.984.628	1,238	9.666.105.515	141.034.984.628	0,069
		2016	1	133.782.751.041	0,000	157.855.084.036	133.782.751.041	1,180	10.440.410.223	133.782.751.041	0,078
		2017	1	162.828.169.250	0,000	224.371.164.551	162.828.169.250	1,378	11.354.188.343	162.828.169.250	0,070
		2018	1	161.163.426.840	0,000	240.029.648.845	161.163.426.840	1,489	12.137.370.644	161.163.426.840	0,075
		2019	1	160.027.280.153	0,000	177.788.235.456	160.027.280.153	1,111	12.584.679.162	160.027.280.153	0,079
41	LPIN	2015	1	180.781.762.691	0,000	77.790.171.689	180.781.762.691	0,430	59.631.544.317	180.781.762.691	0,330
		2016	1	324.054.785.283	0,000	141.746.864.032	324.054.785.283	0,437	121.188.239.210	324.054.785.283	0,374
		2017	1	477.838.306.256	0,000	102.949.173.758	477.838.306.256	0,215	19.804.727.722	477.838.306.256	0,041
		2018	1	268.116.498.330	0,000	95.212.682.098	268.116.498.330	0,355	20.580.523.589	268.116.498.330	0,077
		2019	1	301.596.448.818	0,000	88.357.595.957	301.596.448.818	0,293	20.547.105.416	301.596.448.818	0,068
42	MAIN	2015	1	3.530.183.618.000	0,000	4.775.014.772.000	3.530.183.618.000	1,353	333.559.957.000	3.530.183.618.000	0,094

		2016	1	3.962.068.064.000	0,000	5.237.710.149.000	3.962.068.064.000	1,322	417.639.678.000	3.962.068.064.000	0,105
		2017	1	3.826.862.840.000	0,000	5.441.395.835.000	3.826.862.840.000	1,422	418.057.706.000	3.826.862.840.000	0,109
		2018	1	4.072.245.477.000	0,000	6.705.892.735.000	4.072.245.477.000	1,647	532.462.475.000	4.072.245.477.000	0,131
		2019	1	4.335.844.455.000	0,000	7.454.920.083.000	4.335.844.455.000	1,719	523.742.763.000	4.335.844.455.000	0,121
43	MASA	2015	1	7.781.372.887.600	0,000	3.269.721.993.930	7.781.372.887.600	0,420	422.877.475.590	7.781.372.887.600	0,054
		2016	1	8.255.331.324.415	0,000	3.087.600.485.392	8.255.331.324.415	0,374	380.459.755.020	8.255.331.324.415	0,046
		2017	1	8.192.536.641.560	0,000	3.806.646.820.716	8.192.536.641.560	0,465	444.461.242.680	8.192.536.641.560	0,054
		2018	1	8.909.284.523.676	0,000	4.324.617.149.661	8.909.284.523.676	0,485	678.574.664.055	8.909.284.523.676	0,076
		2019	1	8.066.661.960.564	0,000	4.510.109.181.787	8.066.661.960.564	0,559	609.296.712.788	8.066.661.960.564	0,076
44	MBTO	2015	1	623.002.100.394	0,000	694.782.752.351	623.002.100.394	1,115	350.770.258.875	623.002.100.394	0,563
		2016	1	648.899.377.240	0,000	685.443.920.925	648.899.377.240	1,056	333.049.322.288	648.899.377.240	0,513
		2017	1	709.959.168.088	0,000	731.577.343.628	709.959.168.088	1,030	396.334.159.320	709.959.168.088	0,558
		2018	1	780.669.761.787	0,000	347.517.123.452	780.669.761.787	0,445	354.744.465.609	780.669.761.787	0,454
		2019	1	648.016.880.325	0,000	355.892.726.298	648.016.880.325	0,549	301.307.523.700	648.016.880.325	0,465
45	MLIA	2015	1	7.220.918.333.000	0,000	5.713.989.433.000	7.220.918.333.000	0,791	775.798.009.000	7.220.918.333.000	0,107
		2016	1	7.125.800.277.000	0,000	5.793.737.618.000	7.125.800.277.000	0,813	817.336.330.000	7.125.800.277.000	0,115
		2017	1	7.723.578.677.000	0,000	6.277.135.709.000	7.723.578.677.000	0,813	842.918.716.000	7.723.578.677.000	0,109
		2018	1	5.186.685.608.000	0,000	5.576.944.266.000	5.186.685.608.000	1,075	167.815.147.000	5.186.685.608.000	0,032
		2019	1	5.263.726.099.000	0,000	3.887.075.800.000	5.263.726.099.000	0,738	175.163.581.000	5.263.726.099.000	0,033
46	MRAT	2015	1	500.138.658.228	0,000	428.092.732.505	500.138.658.228	0,856	236.425.485.183	500.138.658.228	0,473
		2016	1	497.090.038.108	0,000	344.361.345.265	497.090.038.108	0,693	200.620.423.078	497.090.038.108	0,404

		2017	1	483.037.173.864	0,000	344.678.666.245	483.037.173.864	0,714	193.879.994.327	483.037.173.864	0,401
		2018	1	497.354.419.089	0,000	300.572.751.733	497.354.419.089	0,604	165.647.973.088	497.354.419.089	0,333
		2019	1	511.887.783.867	0,000	305.224.577.860	511.887.783.867	0,596	175.456.786.928	511.887.783.867	0,343
47	MYTX	2015	1	2.042.336.000.000	0,000	1.891.190.000.000	2.042.336.000.000	0,926	132.402.000.000	2.042.336.000.000	0,065
		2016	1	1.944.326.000.000	0,000	1.296.753.000.000	1.944.326.000.000	0,667	97.663.000.000	1.944.326.000.000	0,050
		2017	1	1.619.757.000.000	0,000	1.640.409.000.000	1.619.757.000.000	1,013	106.561.000.000	1.619.757.000.000	0,066
		2018	1	3.458.737.000.000	0,000	3.508.734.000.000	3.458.737.000.000	1,014	97.753.000.000	3.458.737.000.000	0,028
		2019	1	3.747.570.000.000	0,000	3.374.481.000.000	3.747.570.000.000	0,900	106.754.000.000	3.747.570.000.000	0,028
48	NIKL	2015	1	1.414.683.816.160	0,000	1.894.930.724.050	1.414.683.816.160	1,339	118.729.412.705	1.414.683.816.160	0,084
		2016	1	1.568.775.180.380	0,000	1.769.041.306.388	1.568.683.816.160	1,128	126.129.684.148	1.568.683.816.160	0,080
		2017	1	1.607.856.453.312	0,000	2.056.490.818.860	1.607.856.453.312	1,279	108.580.608.576	1.607.856.453.312	0,068
		2018	1	1.708.712.249.868	0,000	2.362.363.017.831	1.708.712.249.868	1,383	96.128.512.731	1.708.712.249.868	0,056
		2019	1	2.139.961.806.972	0,000	2.311.081.630.419	2.139.961.806.972	1,080	102.437.836.845	2.139.961.806.972	0,048
49	POLY	2015	1	3.425.626.560.400	0,000	5.339.406.757.150	3.425.626.560.400	1,559	347.438.042.025	3.425.626.560.400	0,101
		2016	1	3.207.271.780.620	0,000	4.779.842.757.840	3.207.271.780.620	1,490	314.210.963.872	3.207.271.780.620	0,098
		2017	1	3.105.724.896.976	0,000	5.373.387.004.464	3.207.724.896.976	1,675	337.547.349.708	3.207.724.896.976	0,105
		2018	1	3.137.269.106.340	0,000	6.939.073.423.485	3.137.269.106.340	2,212	393.124.482.486	3.137.269.106.340	0,125
		2019	1	3.450.052.316.268	0,000	5.675.979.529.402	3.450.052.316.268	1,645	377.420.380.932	3.450.052.316.268	0,109
50	PRAS	2015	1	1.286.827.899.805	0,000	469.645.085.526	1.286.827.899.805	0,365	29.507.213.824	1.286.827.899.805	0,023
		2016	1	1.535.656.724.413	0,000	366.709.612.329	1.535.656.724.413	0,239	32.608.952.870	1.535.656.724.413	0,021
		2017	1	1.596.466.547.662	0,000	348.471.154.143	1.596.466.547.662	0,218	41.484.740.831	1.596.466.547.662	0,026

		2018	1	1.542.243.721.302	0,000	574.869.742.811	1.542.243.721.302	0,373	41.516.745.484	1.542.243.721.302	0,027
		2019	1	1.635.543.021.515	0,000	340.551.346.399	1.635.543.021.515	0,208	46.325.510.387	1.635.543.021.515	0,028
51	PSDN	2015	1	622.508.294.824	0,000	920.352.848.084	622.508.294.824	1,478	110.485.744.957	622.508.294.824	0,177
		2016	1	620.398.854.182	0,000	932.905.806.441	620.398.854.182	1,504	123.065.497.780	620.398.854.182	0,198
		2017	1	653.796.725.408	0,000	1.399.580.416.996	653.796.725.408	2,141	124.632.433.501	653.796.725.408	0,191
		2018	1	691.014.455.523	0,000	1.334.070.483.011	691.014.455.523	1,931	134.622.661.522	691.014.455.523	0,195
		2019	1	697.657.400.651	0,000	1.224.283.552.949	697.657.400.651	1,755	141.193.929.017	697.657.400.651	0,202
52	PTSN	2015	1	813.488.061.640	0,000	1.131.904.291.305	813.488.061.640	1,391	91.090.964.665	813.488.061.640	0,112
		2016	1	876.196.777.735	0,000	1.115.847.707.600	876.196.777.735	1,274	94.518.659.152	876.196.777.735	0,108
		2017	1	887.046.775.708	0,000	1.163.554.792.692	887.046.775.708	1,312	122.167.247.472	887.046.775.708	0,138
		2018	1	910.475.565.024	0,000	5.569.020.612.072	910.475.565.024	6,117	153.275.708.448	910.475.565.024	0,168
		2019	1	4.164.390.083.340	0,000	4.678.285.168.123	4.164.390.083.340	1,123	183.493.887.879	4.164.390.083.340	0,044
53	RMBA	2015	1	10.821.467.000.000	0,000	10.821.467.000.000	12.667.314.000.000	0,854	2.558.051.000.000	10.821.467.000.000	0,236
		2016	1	12.667.314.000.000	0,000	12.667.314.000.000	13.470.943.000.000	0,940	2.893.049.000.000	12.667.314.000.000	0,228
		2017	1	13.470.943.000.000	0,000	13.470.943.000.000	14.083.598.000.000	0,956	2.646.071.000.000	13.470.943.000.000	0,196
		2018	1	14.083.598.000.000	0,000	14.083.598.000.000	14.879.589.000.000	0,947	2.917.448.000.000	14.083.598.000.000	0,207
		2019	1	14.879.589.000.000	0,000	14.879.589.000.000	17.000.330.000.000	0,875	2.796.136.000.000	14.879.589.000.000	0,188
54	SIPD	2015	1	2.799.604.621.544	0,000	2.113.148.210.101	2.799.604.621.544	0,755	473.479.499.028	2.799.604.621.544	0,169
		2016	1	2.246.770.166.899	0,000	2.427.199.000.000	2.246.770.166.899	1,080	387.548.000.000	2.246.770.166.899	0,172
		2017	1	2.567.211.000.000	0,000	2.449.961.000.000	2.567.211.000.000	0,954	392.306.000.000	2.567.211.000.000	0,153
		2018	1	2.239.699.000.000	0,000	3.120.459.000.000	2.239.699.000.000	1,393	376.127.000.000	2.239.699.000.000	0,168

59	STAR	2015	1	775.917.827.931	0,000	258.967.329.940	775.917.827.931	0,334	7.651.337.384	775.917.827.931	0,010
		2016	1	729.020.553.284	0,000	129.480.611.941	729.020.553.284	0,178	4.941.663.335	729.020.553.284	0,007
		2017	1	690.187.353.961	0,000	114.496.159.735	690.187.353.961	0,166	4.097.902.751	690.187.353.961	0,006
		2018	1	614.705.038.056	0,000	131.833.235.355	614.705.038.056	0,214	6.538.846.511	614.705.038.056	0,011
		2019	1	332.864.525.071	0,000	78.512.610.966	332.864.525.071	0,236	8.577.447.982	332.864.525.071	0,026
60	SULI	2015	1	904.045.327.760	0,000	886.801.435.675	904.045.327.760	0,981	60.829.176.655	904.045.327.760	0,067
		2016	1	1.172.785.815.190	0,000	990.461.665.744	1.172.785.815.190	0,845	77.568.916.740	1.172.785.815.190	0,066
		2017	1	1.230.359.322.856	0,000	893.084.376.768	1.230.359.322.856	0,726	75.084.844.980	1.230.359.322.856	0,061
		2018	1	1.118.083.884.156	0,000	1.359.032.857.299	1.118.083.884.156	1,216	98.218.352.727	1.118.083.884.156	0,088
		2019	1	1.465.334.098.758	0,000	934.204.781.042	1.465.334.098.758	0,638	80.944.100.134	1.465.334.098.758	0,055
61	TFCO	2015	1	4.233.513.947.440	0,000	2.547.188.659.255	4.233.513.947.440	0,602	62.182.824.825	4.233.513.947.440	0,015
		2016	1	4.345.712.832.675	0,000	2.504.159.087.880	4.345.712.832.675	0,576	64.382.826.340	4.345.712.832.675	0,015
		2017	1	4.330.207.098.456	0,000	2.934.377.645.340	4.330.207.098.456	0,678	75.646.599.252	4.330.207.098.456	0,017
		2018	1	4.486.669.835.448	0,000	3.302.970.160.482	4.486.669.835.448	0,736	76.062.408.246	4.486.669.835.448	0,017
		2019	1	4.660.751.367.027	0,000	2.678.632.547.546	4.660.751.367.027	0,575	61.390.883.479	4.660.751.367.027	0,013
62	TIRT	2015	1	716.491.912.027	0,000	852.780.085.776	716.491.912.027	1,190	99.771.407.735	716.491.912.027	0,139
		2016	1	763.168.027.178	0,000	843.528.979.435	763.168.027.178	1,105	103.689.343.878	763.168.027.178	0,136
		2017	1	815.997.477.795	0,000	795.611.411.050	815.997.477.795	0,975	99.004.853.633	815.997.477.795	0,121
		2018	1	859.299.056.455	0,000	1.042.813.378.742	859.299.056.455	1,214	104.440.713.497	859.299.056.455	0,122
		2019	1	923.366.433.799	0,000	645.859.484.361	923.366.433.799	0,699	82.452.181.710	923.366.433.799	0,089
63	TKIM	2015	1	33.723.173.040.000	0,000	14.657.615.145.000	33.723.173.040.000	0,435	1.346.295.435.000	33.723.173.040.000	0,040

		2016	1	37.024.028.035.000	0,000	13.394.375.272.000	37.024.028.035.000	0,362	1.332.824.328.000	37.024.028.035.000	0,036
		2017	1	33.472.864.952.000	0,000	13.706.714.820.000	33.472.864.952.000	0,409	1.125.364.620.000	33.472.864.952.000	0,034
		2018	1	34.965.694.500.000	0,000	15.289.039.800.000	34.965.694.500.000	0,437	1.097.630.838.000	34.965.694.500.000	0,031
		2019	1	42.938.134.416.000	0,000	14.838.709.178.000	42.938.134.416.000	0,346	1.147.128.279.000	42.938.134.416.000	0,027
64	UNIC	2015	1	2.935.515.340.880	0,000	3.937.376.790.740	2.935.515.340.880	1,341	262.763.945.765	2.935.515.340.880	0,090
		2016	1	3.068.663.262.500	0,000	3.709.840.213.944	3.068.663.262.500	1,209	272.107.994.888	3.068.663.262.500	0,089
		2017	1	3.048.811.653.604	0,000	4.342.800.873.204	3.048.811.653.604	1,424	278.020.648.584	3.048.811.653.604	0,091
		2018	1	3.031.323.678.600	0,000	5.074.104.300.489	3.031.323.678.600	1,674	261.307.342.521	3.031.323.678.600	0,086
		2019	1	3.423.458.828.628	0,000	4.564.458.750.444	3.423.458.828.628	1,333	263.735.928.331	3.423.458.828.628	0,077
65	YPAS	2015	1	320.882.480.510	0,000	277.402.566.627	320.882.480.510	0,864	21.458.135.699	320.882.480.510	0,067
		2016	1	279.189.768.587	0,000	278.331.887.681	279.189.768.587	0,997	20.780.703.591	279.189.768.587	0,074
		2017	1	280.257.664.992	0,000	284.888.808.374	280.257.664.992	1,017	20.479.791.164	280.257.664.992	0,073
		2018	1	303.542.864.533	0,000	412.833.362.528	303.542.864.533	1,360	27.081.594.874	303.542.864.533	0,089
		2019	1	330.955.269.476	0,000	388.118.905.159	330.955.269.476	1,173	24.691.165.194	330.955.269.476	0,075

Lampiran 6

Data Abnormal Cashflow Operations (Abn_CFO)

No	Kode	Tahun	x3			Y		
			Perubahan Penjualan	Total asset t-1	x3	CFO	Total asset t-1	y
1	ADMG	2015	- 1.298.082.294.690	5.797.867.944.200	-0,224	316.417.653.170	5.797.867.944.200	0,055
		2016	- 527.029.021.150	5.794.041.150.440	-0,091	177.568.684.604	5.794.041.150.440	0,031
		2017	554.715.791.040	5.117.067.305.592	0,108	229.139.816.832	5.117.067.305.592	0,045
		2018	848.260.198.929	5.068.446.385.044	0,167	21.765.174.696	5.068.446.385.044	0,004
		2019	- 1.857.067.750.990	4.064.524.965.774	-0,457	134.017.003.401	4.064.524.965.774	0,033
2	AISA	2015	870.921.000.000	7.373.868.000.000	0,118	399.185.000.000	7.373.868.000.000	0,054
		2016	534.785.000.000	9.060.979.000.000	0,059	463.580.000.000	9.060.979.000.000	0,051
		2017	- 1.625.048.000.000	9.254.539.000.000	-0,176	267.102.000.000	9.254.539.000.000	0,029
		2018	- 3.337.367.000.000	8.724.734.000.000	-0,383	278.566.000.000	8.724.734.000.000	0,032
		2019	- 72.838.000.000	1.816.406.000.000	-0,040	12.183.000.000	1.816.406.000.000	0,007
3	AKPI	2015	72.083.480.000	2.227.042.590.000	0,032	- 50.796.252.000	2.227.042.590.000	-0,023
		2016	29.752.128.000	2.883.143.132.000	0,010	384.621.003.000	2.883.143.132.000	0,133
		2017	17.639.004.000	2.615.909.190.000	0,007	145.628.143.000	2.615.909.190.000	0,056
		2018	322.562.393.000	2.745.325.833.000	0,117	- 23.973.646.000	2.745.325.833.000	-0,009
		2019	- 136.296.737.000	2.776.775.756.000	-0,049	243.459.904.000	2.776.775.756.000	0,088
4	ALKA	2015	- 481.218.221.000	244.879.397.000	-1,965	- 2.880.134.000	244.879.397.000	-0,012
		2016	402.459.264.000	144.628.405.000	2,783	12.555.800.000	144.628.405.000	0,087
		2017	781.178.149.000	136.618.855.000	5,718	- 3.678.215.000	136.618.855.000	-0,027
		2018	1.660.014.330.000	305.208.703.000	5,439	71.626.222.000	305.208.703.000	0,235
		2019	- 1.374.412.726.000	604.824.614.000	-2,272	233.260.999.000	604.824.614.000	0,386
5	ALMI	2015	- 2.757.901.297	3.212.438.981.224	-8,580	1.749.582.272.593	3.212.438.981.224	0,545
		2016	- 871.529.285.204	2.189.037.586.057	-0,398	49.190.107.633	2.189.037.586.057	0,022
		2017	1.023.104.803.148	2.153.030.503.531	0,475	- 373.368.308.766	2.153.030.503.531	-0,173

		2018	937.975.284.589	2.376.281.796.928	0,395	- 444.151.604.001	2.376.281.796.928	-0,187
		2019	- 2.188.755.480.593	1.725.649.624.878	-1,268	253.724.256.753	1.725.649.624.878	0,147
6	ALTO	2015	- 30.620.541.483	1.236.807.511.653	-0,025	- 11.384.467.878	1.236.807.511.653	-0,009
		2016	- 5.310.329.549	1.180.228.072.164	-0,004	20.444.874.139	1.180.228.072.164	0,017
		2017	- 34.327.511.526	1.165.093.632.823	-0,029	5.602.423.448	1.165.093.632.823	0,005
		2018	28.130.848.478	1.109.383.971.111	0,025	7.723.486.943	1.109.383.971.111	0,007
		2019	53.696.802.995	1.109.843.522.344	0,048	33.552.221.386	1.109.843.522.344	0,030
7	AMFG	2015	455.706.000.000	3.946.125.000.000	0,115	366.837.000.000	3.946.125.000.000	0,093
		2016	58.086.000.000	4.270.275.000.000	0,014	333.042.000.000	4.270.275.000.000	0,078
		2017	161.716.000.000	5.504.890.000.000	0,029	299.081.000.000	5.504.890.000.000	0,054
		2018	557.471.000.000	6.267.816.000.000	0,089	216.818.000.000	6.267.816.000.000	0,035
		2019	- 153.486.000.000	8.432.632.000.000	-0,018	- 45.608.000.000	8.432.632.000.000	-0,005
8	ARGO	2015	- 679.533.785.825	1.814.130.188.440	-0,375	- 58.072.204.520	1.814.130.188.440	-0,032
		2016	29.510.141.257	1.796.823.167.150	0,016	- 229.878.418.476	1.796.823.167.150	-0,128
		2017	- 202.522.606.220	1.560.692.613.388	-0,130	- 5.112.256.512	1.560.692.613.388	-0,003
		2018	- 2.405.980.356	1.333.933.939.416	-0,002	- 25.361.284.869	1.333.933.939.416	-0,019
		2019	- 174.060.364.598	1.279.018.222.128	-0,136	- 50.264.947.959	1.279.018.222.128	-0,039
9	BAJA	2015	21.348.993.867	959.445.449.616	0,022	27.344.372.141	959.445.449.616	0,029
		2016	- 272.352.994.708	948.682.681.142	-0,287	32.970.857.155	948.682.681.142	0,035
		2017	239.477.187.279	982.626.956.424	0,244	52.474.094.986	982.626.956.424	0,053
		2018	61.492.056.851	946.448.936.464	0,065	10.125.713.239	946.448.936.464	0,011
		2019	- 207.184.291.361	901.181.796.270	-0,230	79.605.539.441	901.181.796.270	0,088
10	BRNA	2015	19.512.202.000	1.334.086.016.000	0,015	276.302.922.000	1.334.086.016.000	0,207
		2016	86.495.963.000	1.820.783.911.000	0,048	90.207.118.000	1.820.783.911.000	0,050
		2017	- 54.408.909.000	2.088.696.909.000	-0,026	9.047.191.000	2.088.696.909.000	0,004
		2018	8.904.207.000	1.964.877.082.000	0,005	55.946.663.000	1.964.877.082.000	0,028
		2019	- 97.809.267.000	2.461.326.183.000	-0,040	142.202.375.000	2.461.326.183.000	0,058
11	BRPT	2015	- 11.414.786.775.000	28.927.926.240.000	-0,395	1.110.704.425.000	28.927.926.240.000	0,038
		2016	6.954.433.347.000	31.081.293.780.000	0,224	5.865.055.848.000	31.081.293.780.000	0,189

		2017	6.879.050.304.000	34.538.447.240.000	0,199	4.577.679.528.000	34.538.447.240.000	0,133
		2018	11.306.027.685.000	49.354.388.544.000	0,229	7.850.975.517.000	49.354.388.544.000	0,159
		2019	- 10.491.853.155.000	101.982.312.171.000	-0,103	6.508.584.419.000	101.982.312.171.000	0,064
12	BTEK	2015	- 50.575.312.837	443.046.469.330	-0,114	556.930.894.320	443.046.469.330	1,257
		2016	698.972.879.147	495.390.442.927	1,411	138.783.218.372	495.390.442.927	0,280
		2017	139.052.387.678	4.879.715.095.300	0,028	- 160.428.734.408	4.879.715.095.300	-0,033
		2018	2.904.663.787	5.306.055.112.389	5,470	1.088.089.209.249	5.306.055.112.389	0,205
		2019	- 192.131.735.744	5.165.236.468.706	-0,037	94.459.968.551	5.165.236.468.706	0,018
13	BTON	2015	- 28.328.966.600	174.088.741.855	-0,163	1.520.287.645	174.088.741.855	0,009
		2016	- 4.919.420.290	183.116.245.288	-0,027	- 1.794.007.269	183.116.245.288	-0,010
		2017	25.250.753.120	177.290.628.918	0,142	6.005.724.423	177.290.628.918	0,034
		2018	29.478.329.080	183.501.650.442	0,161	25.560.227.579	183.501.650.442	0,139
		2019	4.836.516.510	217.362.960.011	0,022	25.034.751.120	217.362.960.011	0,115
14	CPRO	2015	- 479.597.000.000	7.086.117.000.000	-0,068	10.877.000.000	7.086.117.000.000	0,002
		2016	- 377.856.000.000	9.086.586.000.000	-0,042	307.083.000.000	9.086.586.000.000	0,034
		2017	- 2.021.638.000.000	7.323.273.000.000	-0,276	- 145.816.000.000	7.323.273.000.000	-0,020
		2018	815.010.000.000	7.006.675.000.000	0,116	109.828.000.000	7.006.675.000.000	0,016
		2019	- 214.816.000.000	6.572.440.000.000	-0,033	358.866.000.000	6.572.440.000.000	0,055
15	CTBN	2015	- 1.012.705.342.325	3.236.848.901.080	-0,313	288.557.105.630	3.236.848.901.080	0,089
		2016	- 244.641.768.479	3.182.228.199.080	-0,077	325.757.472.628	3.182.228.199.080	0,102
		2017	- 650.165.058.276	2.144.702.770.216	-0,303	39.479.278.440	2.144.702.770.216	0,018
		2018	566.396.207.139	2.024.761.497.696	0,280	- 305.996.751.153	2.024.761.497.696	-0,151
		2019	794.899.627.504	2.254.015.683.477	0,353	36.877.590.088	2.254.015.683.477	0,016
16	ECII	2015	- 446.167.304.784	2.003.579.371.172	-0,223	42.323.201.764	2.003.579.371.172	0,021
		2016	- 120.752.711.325	1.898.418.873.433	-0,064	116.375.417.090	1.898.418.873.433	0,061
		2017	158.621.626.098	1.881.645.933.066	0,084	94.274.606.925	1.881.645.933.066	0,050
		2018	184.737.296.522	1.899.930.632.192	0,097	97.562.014.042	1.899.930.632.192	0,051
		2019	- 24.576.538.724	1.751.622.687.179	-0,014	123.814.829.509	1.751.622.687.179	0,071
17	ERTX	2015	277.219.702.570	579.706.512.880	0,478	31.264.629.330	579.706.512.880	0,054

		2016	-	6.387.114.294	731.007.547.995	-0,009	99.631.231.820	731.007.547.995	0,136
		2017		23.025.242.644	707.526.283.692	0,033	97.074.332.820	707.526.283.692	0,137
		2018		127.662.134.178	802.839.170.760	0,159	39.739.151.187	802.839.170.760	0,049
		2019		125.162.995.037	906.305.751.774	0,138	10.160.536.145	906.305.751.774	0,011
18	ESTI	2015	-	77.209.962.035	866.377.567.560	-0,089	- 5.500.025.115	866.377.567.560	-0,006
		2016	-	37.674.558.721	784.070.774.220	-0,048	- 19.251.181.416	784.070.774.220	-0,025
		2017		3.405.602.436	664.186.651.832	0,005	3.772.196.736	664.186.651.832	0,006
		2018		45.219.368.976	834.008.756.304	0,054	- 68.501.487.159	834.008.756.304	-0,082
		2019	-	97.463.229.962	898.223.413.320	-0,109	- 60.366.476.060	898.223.413.320	-0,067
19	FASW	2015		496.110.402.020	5.581.000.723.345	0,089	72.901.791.421	5.581.000.723.345	0,013
		2016		914.746.103.404	6.993.634.266.969	0,131	2.206.943.981.547	6.993.634.266.969	0,316
		2017		1.462.440.106.147	8.583.223.835.997	0,170	1.113.426.743.731	8.583.223.835.997	0,130
		2018		2.601.125.552.564	9.369.891.776.775	0,278	1.733.244.001.462	9.369.891.776.775	0,185
		2019	-	1.669.806.811.130	10.965.118.708.784	-0,152	1.116.219.495.805	10.965.118.708.784	0,102
20	FPNI	2015	-	1.425.424.905.000	3.187.215.080.000	-0,447	- 20.913.220.000	3.187.215.080.000	-0,007
		2016	-	372.548.035.000	3.216.042.145.000	-0,116	17.708.648.000	3.216.042.145.000	0,006
		2017	-	65.389.092.000	2.750.470.124.000	-0,024	16.772.424.000	2.750.470.124.000	0,006
		2018		404.630.400.000	2.599.278.636.000	0,156	47.092.212.000	2.599.278.636.000	0,018
		2019	-	1.571.609.413.000	2.835.756.306.000	-0,554	76.424.203.000	2.835.756.306.000	0,027
21	GDST	2015	-	3.790.199.968.460	1.357.932.144.522	-2,791	- 39.316.274.672	1.357.932.144.522	-0,029
		2016	-	156.510.098.360	1.183.934.183.257	-0,132	87.280.999.316	1.183.934.183.257	0,074
		2017		646.781.223.856	1.257.609.869.910	0,514	32.693.373.940	1.257.609.869.910	0,026
		2018		152.224.232.130	1.374.987.178.565	0,111	6.606.782.082	1.374.987.178.565	0,005
		2019		296.478.932.809	1.351.861.756.994	0,219	- 60.367.965.848	1.351.861.756.994	-0,045
22	GDYR	2015		130.022.668.760	1.561.198.217.560	0,083	223.227.767.688	1.561.198.217.560	0,143
		2016	-	45.067.955.968	1.645.962.330.085	-0,027	84.001.106.148	1.645.962.330.085	0,051
		2017		99.898.715.460	1.516.129.539.676	0,066	227.297.538.770	1.516.129.539.676	0,150
		2018		131.149.470.597	1.676.776.348.800	0,078	- 193.741.194.440	1.676.776.348.800	-0,116
		2019	-	341.675.654.231	1.705.623.558.111	-0,200	32.649.927.316	1.705.623.558.111	0,019

23	GJTL	2015	-	100.497.000.000	16.122.036.000.000	-0,006	795.635.000.000	16.122.036.000.000	0,049
		2016		663.319.000.000	17.509.505.000.000	0,038	1.293.214.000.000	17.509.505.000.000	0,074
		2017		513.362.000.000	18.697.779.000.000	0,027	738.861.000.000	18.697.779.000.000	0,040
		2018		1.203.021.000.000	18.191.176.000.000	0,066	479.736.000.000	18.191.176.000.000	0,026
		2019		589.482.000.000	19.711.478.000.000	0,030	1.258.371.000.000	19.711.478.000.000	0,064
24	HERO	2015		788.671.000.000	8.295.642.000.000	0,095	662.579.000.000	8.295.642.000.000	0,080
		2016	-	674.769.000.000	7.799.639.000.000	-0,087	415.853.000.000	7.799.639.000.000	0,053
		2017	-	644.293.000.000	7.487.033.000.000	-0,086	542.268.000.000	7.487.033.000.000	0,072
		2018	-	63.249.000.000	7.363.144.000.000	-0,009	506.890.000.000	7.363.144.000.000	0,069
		2019	-	702.607.000.000	6.154.748.000.000	-0,114	10.768.000.000	6.154.748.000.000	0,002
25	IIKP	2015	-	1.676.029.988	350.994.617.873	-0,005	3.140.236.652	350.994.617.873	0,009
		2016		64.401.374.237	332.003.087.466	0,194	- 1.707.231.570	332.003.087.466	-0,005
		2017	-	62.941.925.942	364.933.257.765	-0,172	- 3.829.837.721	364.933.257.765	-0,010
		2018	-	3.610.378.441	313.924.526.593	-0,012	841.079.440	313.924.526.593	0,003
		2019		2.275.981.862	298.090.648.072	0,008	624.782.809	298.090.648.072	0,002
26	IKAI	2015	-	121.121.582.896	518.546.655.125	-0,234	- 16.480.938.391	518.546.655.125	-0,032
		2016	-	57.427.138.647	390.042.617.783	-0,147	- 12.666.211.000	390.042.617.783	-0,032
		2017	-	70.475.212.000	265.028.561.223	-0,266	- 22.052.766.000	265.028.561.223	-0,083
		2018	-	2.020.751.000	229.825.182.000	-0,009	- 69.560.019.000	229.825.182.000	-0,303
		2019		73.248.254.000	1.337.016.109.000	0,055	- 55.279.005.000	1.337.016.109.000	-0,041
27	IMAS	2015	-	1.358.185.389.873	23.473.796.788.460	-0,058	793.372.435.545	23.473.796.788.460	0,034
		2016	-	3.050.447.451.553	24.860.957.839.497	-0,123	118.811.023.397	24.860.957.839.497	0,005
		2017		309.904.956.593	25.633.342.258.679	0,012	- 588.161.576.368	25.633.342.258.679	-0,023
		2018		2.518.834.234.453	31.440.443.615.533	0,080	- 2.240.811.709.699	31.440.443.615.533	-0,071
		2019		736.858.173.784	40.955.996.273.862	0,018	615.124.627.663	40.955.996.273.862	0,015
28	INAF	2015		240.462.089.542	1.249.763.660.131	0,192	134.284.985.659	1.249.763.660.131	0,107
		2016		52.804.054.671	1.533.708.564.241	0,034	- 317.962.543.661	1.533.708.564.241	-0,207
		2017	-	43.385.223.232	1.381.633.321.120	-0,031	147.184.447.849	1.381.633.321.120	0,107
		2018	-	38.337.557.838	1.529.874.782.290	-0,025	- 70.390.895.931	1.529.874.782.290	-0,046

		2019	-	233.804.691.603	1.442.350.608.575	-0,162	20.790.922.347	1.442.350.608.575	0,014	
29	INDR	2015		2.070.461.682.320	9.701.335.530.120	0,213	-	411.976.666.590	9.701.335.530.120	-0,042
		2016	-	114.285.314.110	11.102.923.628.320	-0,010		955.355.251.912	11.102.923.628.320	0,086
		2017		1.244.855.191.400	11.334.363.640.584	0,110		972.229.570.896	11.334.363.640.584	0,086
		2018		1.616.809.942.020	10.839.869.565.108	0,149		796.807.974.375	10.839.869.565.108	0,074
		2019	-	1.276.360.507.686	11.729.096.865.765	-0,109		630.836.335.197	11.729.096.865.765	0,054
		2015	-	207.471.620.844	2.282.666.078.493	-0,091		110.641.662.962	2.282.666.078.493	0,048
30	INDS	2016	-	22.468.849.142	2.553.928.346.219	-0,009		193.436.286.326	2.553.928.346.219	0,076
		2017		330.946.112.653	2.477.272.502.538	0,134		320.252.084.705	2.477.272.502.538	0,129
		2018		432.079.325.018	2.434.617.337.849	0,177		133.733.783.003	2.434.617.337.849	0,055
		2019	-	308.570.512.258	2.482.337.567.967	-0,124		155.508.121.580	2.482.337.567.967	0,063
		2015	-	28.233.225.000	4.108.110.960.000	-0,007		350.434.385.000	4.108.110.960.000	0,085
31	INRU	2016	-	200.509.431.000	4.606.205.680.000	-0,044		358.566.532.000	4.606.205.680.000	0,078
		2017		548.504.756.000	4.560.554.608.000	0,120	-	129.247.920.000	4.560.554.608.000	-0,028
		2018		77.307.243.000	4.573.601.580.000	0,017		108.491.652.000	4.573.601.580.000	0,024
		2019	-	280.824.345.000	5.954.949.225.000	-0,047		776.854.220.000	5.954.949.225.000	0,130
		2015		215.668.000.000	5.443.158.000.000	0,040		176.316.000.000	5.443.158.000.000	0,032
32	ISSP	2016	-	324.341.000.000	5.447.784.000.000	-0,060	-	374.268.000.000	5.447.784.000.000	-0,069
		2017		403.610.000.000	6.041.811.000.000	0,067		743.427.000.000	6.041.811.000.000	0,123
		2018		804.780.000.000	6.269.365.000.000	0,128	-	374.759.000.000	6.269.365.000.000	-0,060
		2019		418.285.000.000	6.494.070.000.000	0,064		461.351.000.000	6.494.070.000.000	0,071
		2015		170.323.762.000	1.064.129.232.000	0,160		21.550.154.000	1.064.129.232.000	0,020
33	JECC	2016		374.448.966.000	1.358.464.081.000	0,276		184.371.203.000	1.358.464.081.000	0,136
		2017		146.734.051.000	1.587.210.576.000	0,092		85.948.536.000	1.587.210.576.000	0,054
		2018		1.023.061.071.000	1.927.985.352.000	0,531		382.624.000	1.927.985.352.000	1,820
		2019	-	281.481.072.000	2.102.146.140.000	-0,134		179.820.472.000	2.102.146.140.000	0,086
		2015		339.347.103.764	3.012.778.637.568	0,113		175.966.862.348	3.012.778.637.568	0,058
34	KAEF	2016		951.131.172.907	3.434.879.313.034	0,277		198.050.928.789	3.434.879.313.034	0,058
		2017		443.809.726.863	4.612.562.541.064	0,096		5.241.243.654	4.612.562.541.064	0,001

		2018	2.203.934.903.706	6.096.148.972.534	0,362	171.669.100.000	6.096.148.972.534	0,028
		2019	941.288.189.000	11.329.090.864.000	0,083	- 1.853.834.642.000	11.329.090.864.000	-0,164
35	KIAS	2015	- 98.584.541.437	2.268.246.639.101	-0,043	- 56.748.466.971	2.268.246.639.101	-0,025
		2016	63.322.146.409	2.124.390.696.519	0,030	25.238.536.021	2.124.390.696.519	0,012
		2017	- 53.650.460.541	1.859.669.927.962	-0,029	- 17.868.868.446	1.859.669.927.962	-0,010
		2018	65.899.044.386	1.767.603.505.697	0,037	- 19.687.681.719	1.767.603.505.697	-0,011
		2019	- 140.896.705.896	1.704.424.579.208	-0,083	- 45.225.708.260	1.704.424.579.208	-0,027
36	KICI	2015	- 11.236.594.379	100.322.024.001	-0,112	- 4.055.527.244	100.322.024.001	-0,040
		2016	- 34.449.861.785	133.831.888.816	-0,257	- 97.291.055	133.831.888.816	6,958
		2017	- 26.394.420.336	139.809.135.385	-0,189	6.225.044.449	139.809.135.385	0,045
		2018	- 62.503.848.555	149.420.009.884	-0,418	- 531.708.506	149.420.009.884	-0,004
		2019	- 63.027.433.165	154.088.747.766	-0,409	8.147.131.727	154.088.747.766	0,053
37	KRAS	2015	- 5.013.883.515.000	32.398.201.080.000	-0,155	- 1.020.719.640.000	32.398.201.080.000	-0,032
		2016	- 166.957.545.000	51.071.076.480.000	-0,003	903.100.740.000	51.071.076.480.000	0,018
		2017	1.563.732.220.000	52.893.675.868.000	0,030	2.765.959.680.000	52.893.675.868.000	0,052
		2018	5.592.363.447.000	55.741.701.528.000	0,100	- 1.160.666.631.000	55.741.701.528.000	-0,021
		2019	- 5.093.780.907.000	51.859.183.428.000	-0,098	2.495.867.375.000	51.859.183.428.000	0,048
38	LION	2015	11.628.570.259	605.165.911.239	0,019	59.304.153.529	605.165.911.239	0,098
		2016	- 10.114.043.373	639.330.150.373	-0,016	53.300.060.257	639.330.150.373	0,083
		2017	- 29.446.352.895	685.812.995.987	-0,043	9.661.711.698	685.812.995.987	0,014
		2018	74.437.624.586	681.937.947.736	0,109	979.689.452	681.937.947.736	0,001
		2019	- 51.639.397.799	696.192.628.101	-0,074	10.331.375.004	696.192.628.101	0,015
39	LMPI	2015	- 60.853.724.768	808.892.238.344	-0,075	16.467.774.299	808.892.238.344	0,020
		2016	- 40.748.186.903	793.093.512.600	-0,051	17.977.955.613	793.093.512.600	0,023
		2017	- 801.233.293	810.364.824.722	-9,600	- 16.797.834.611	810.364.824.722	-0,021
		2018	44.411.794.087	834.548.374.286	0,053	29.060.369.596	834.548.374.286	0,035
		2019	61.956.420.585	786.704.752.983	0,079	18.147.515.192	786.704.752.983	0,023
40	LMSH	2015	- 74.473.046.431	141.034.984.628	-0,528	10.910.801.951	141.034.984.628	0,077
		2016	- 16.743.881.902	133.782.751.041	-0,125	6.871.373.245	133.782.751.041	0,051

		2017	66.516.080.515	162.828.169.250	0,409	15.388.660.677	162.828.169.250	0,095
		2018	15.658.484.294	161.163.426.840	0,097	- 2.936.816.318	161.163.426.840	-0,018
		2019	- 62.241.413.389	160.027.280.153	-0,389	- 6.084.801.351	160.027.280.153	-0,038
41	LPIN	2015	7.634.706.822	180.781.762.691	0,042	46.282.975.488	180.781.762.691	0,256
		2016	63.956.692.343	324.054.785.283	0,197	- 17.348.531.716	324.054.785.283	-0,054
		2017	- 38.797.690.274	477.838.306.256	-0,081	- 3.669.565.594	477.838.306.256	-0,008
		2018	- 7.736.491.660	268.116.498.330	-0,029	- 15.037.977.639	268.116.498.330	-0,056
		2019	- 6.855.086.141	301.596.448.818	-0,023	16.077.052.533	301.596.448.818	0,053
42	MAIN	2015	272.936.645.000	3.530.183.618.000	0,077	- 26.280.191.000	3.530.183.618.000	-0,007
		2016	462.695.377.000	3.962.068.064.000	0,117	251.605.232.000	3.962.068.064.000	0,064
		2017	203.685.686.000	3.826.862.840.000	0,053	265.893.212.000	3.826.862.840.000	0,069
		2018	1.264.496.900.000	4.072.245.477.000	0,311	367.904.123.000	4.072.245.477.000	0,090
		2019	749.027.348.000	4.335.844.455.000	0,173	312.988.282.000	4.335.844.455.000	0,072
43	MASA	2015	- 267.030.190.790	7.781.372.887.600	-0,034	678.783.857.880	7.781.372.887.600	0,087
		2016	- 182.121.508.538	8.255.331.324.415	-0,022	372.864.948.532	8.255.331.324.415	0,045
		2017	719.046.335.324	8.192.536.641.560	0,088	371.709.024.600	8.192.536.641.560	0,045
		2018	517.970.328.945	8.909.284.523.676	0,058	454.361.127.084	8.909.284.523.676	0,051
		2019	185.492.032.126	8.066.661.960.564	0,023	- 418.476.998.920	8.066.661.960.564	-0,052
44	MBTO	2015	23.383.902.528	623.002.100.394	0,038	1.011.148.821	623.002.100.394	0,002
		2016	- 9.338.831.426	648.899.377.240	-0,014	4.896.207.231	648.899.377.240	0,008
		2017	46.133.422.703	709.959.168.088	0,065	- 33.053.446.183	709.959.168.088	-0,047
		2018	- 384.060.220.176	780.669.761.787	-0,492	6.591.999.142	780.669.761.787	0,008
		2019	8.375.602.846	648.016.880.325	0,013	- 9.617.956.093	648.016.880.325	-0,015
45	MLIA	2015	84.292.710.000	7.220.918.333.000	0,012	367.602.920.000	7.220.918.333.000	0,051
		2016	79.748.185.000	7.125.800.277.000	0,011	234.571.143.000	7.125.800.277.000	0,033
		2017	483.398.091.000	7.723.578.677.000	0,063	243.550.943.000	7.723.578.677.000	0,032
		2018	- 700.191.443.000	5.186.685.608.000	-0,135	227.388.878.000	5.186.685.608.000	0,044
		2019	- 1.689.868.466.000	5.263.726.099.000	-0,321	175.969.808.000	5.263.726.099.000	0,033
46	MRAT	2015	384.618.030.905	500.138.658.228	0,769	- 8.272.888.090	500.138.658.228	-0,017

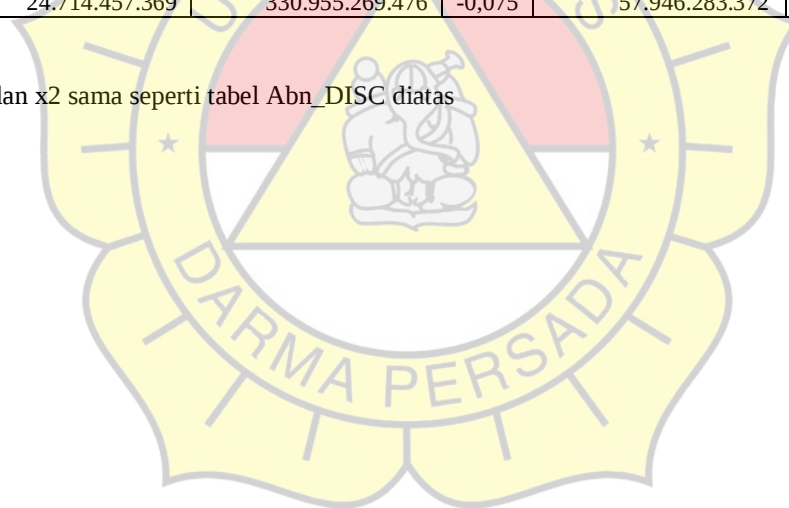
		2016	-	83.731.387.240	497.090.038.108	-0,168	-	16.529.433.188	497.090.038.108	-0,033
		2017		317.320.980	483.037.173.864	6,569	-	10.335.155.394	483.037.173.864	-0,021
		2018	-	44.105.914.512	497.354.419.089	-0,089	-	5.750.378.923	497.354.419.089	-0,012
		2019		4.651.826.127	511.887.783.867	0,009	-	6.529.917.745	511.887.783.867	-0,013
47	MYTX	2015	-	237.868.000.000	2.042.336.000.000	-0,116	-	66.225.000.000	2.042.336.000.000	-0,032
		2016	-	594.437.000.000	1.944.326.000.000	-0,306	-	26.517.000.000	1.944.326.000.000	-0,014
		2017		343.656.000.000	1.619.757.000.000	0,212		122.802.000.000	1.619.757.000.000	0,076
		2018		1.868.325.000.000	3.458.737.000.000	0,540	-	169.713.000.000	3.458.737.000.000	-0,049
		2019	-	134.253.000.000	3.747.570.000.000	-0,036	-	140.424.000.000	3.747.570.000.000	-0,037
48	NIKL	2015	-	131.738.879.670	1.414.683.816.160	-0,093		137.700.407.065	1.414.683.816.160	0,097
		2016	-	125.889.417.662	1.568.683.816.160	-0,080		186.066.067.828	1.568.683.816.160	0,119
		2017		287.449.512.472	1.607.856.453.312	0,179	-	153.074.990.820	1.607.856.453.312	-0,095
		2018		305.872.198.971	1.708.712.249.868	0,179	-	157.588.019.919	1.708.712.249.868	-0,092
		2019	-	51.281.387.412	2.139.961.806.972	-0,024		144.231.856.989	2.139.961.806.972	0,067
49	POLY	2015	-	800.566.984.090	3.425.626.560.400	-0,234		39.378.310.325	3.425.626.560.400	0,011
		2016	-	559.563.999.310	3.207.271.780.620	-0,174		187.277.699.436	3.207.271.780.620	0,058
		2017		593.544.246.624	3.207.724.896.976	0,185		253.035.061.188	3.207.724.896.976	0,079
		2018		1.565.686.419.021	3.137.269.106.340	0,499	-	16.901.108.163	3.137.269.106.340	-0,005
		2019	-	1.263.093.894.083	3.450.052.316.268	-0,366		117.052.516.684	3.450.052.316.268	0,034
50	PRAS	2015		23.980.543.522	1.286.827.899.805	0,019		5.512.017.512	1.286.827.899.805	0,004
		2016	-	102.935.473.197	1.535.656.724.413	-0,067		3.493.277.047	1.535.656.724.413	0,002
		2017	-	18.238.458.186	1.596.466.547.662	-0,011	-	1.995.105.496	1.596.466.547.662	-0,001
		2018		226.398.588.668	1.542.243.721.302	0,147		17.330.565.028	1.542.243.721.302	0,011
		2019	-	234.318.396.412	1.635.543.021.515	-0,143		3.664.810.110	1.635.543.021.515	0,002
51	PSDN	2015	-	54.728.209.005	622.508.294.824	-0,088	-	22.726.926.832	622.508.294.824	-0,037
		2016		12.552.958.357	620.398.854.182	0,020		24.429.296.083	620.398.854.182	0,039
		2017		466.674.610.555	653.796.725.408	0,714	-	24.864.871.829	653.796.725.408	-0,038
		2018	-	65.509.933.985	691.014.455.523	-0,095		17.812.366.089	691.014.455.523	0,026
		2019	-	109.786.930.062	697.657.400.651	-0,157		57.339.523.786	697.657.400.651	0,082

52	PTSN	2015	-	236.016.320.855	813.488.061.640	-0,290	26.967.417.855	813.488.061.640	0,033
		2016	-	16.056.583.705	876.196.777.735	-0,018	115.821.504.332	876.196.777.735	0,132
		2017		47.707.085.092	887.046.775.708	0,054	93.605.150.662	887.046.775.708	0,106
		2018		4.405.465.819.380	910.475.565.024	4,839	223.869.888.360	910.475.565.024	0,246
		2019	-	890.735.443.949	4.164.390.083.340	-0,214	8.161.178.097	4.164.390.083.340	0,002
53	RMBA	2015		2.324.879.000.000	10.821.467.000.000	0,215	- 2.823.747.000.000	10.821.467.000.000	-0,261
		2016		2.414.629.000.000	12.667.314.000.000	0,191	- 2.567.883.000.000	12.667.314.000.000	-0,203
		2017		1.029.889.000.000	13.470.943.000.000	0,076	6.706.000.000	13.470.943.000.000	4,761
		2018		1.664.187.000.000	14.083.598.000.000	0,118	- 8.892.000.000	14.083.598.000.000	-5,975
		2019	-	1.088.358.000.000	14.879.589.000.000	-0,073	- 948.162.000.000	14.879.589.000.000	-0,064
54	SIPD	2015	-	392.426.892.402	2.799.604.621.544	-0,140	205.597.582.102	2.799.604.621.544	0,073
		2016		314.050.789.899	2.246.770.166.899	0,140	- 26.050.000.000	2.246.770.166.899	-0,012
		2017		22.762.000.000	2.567.211.000.000	0,009	23.747.000.000	2.567.211.000.000	0,009
		2018		670.498.000.000	2.239.699.000.000	0,299	116.511.000.000	2.239.699.000.000	0,052
		2019		985.532.000.000	2.187.879.000.000	0,450	223.478.000.000	2.187.879.000.000	0,102
55	SMBR	2015		246.333.352.000	2.928.480.366.000	0,084	522.628.119.000	2.928.480.366.000	0,178
		2016		61.559.809.000	3.268.667.933.000	0,019	87.306.699.000	3.268.667.933.000	0,027
		2017		28.716.897.000	4.368.876.996.000	0,007	183.236.105.000	4.368.876.996.000	0,042
		2018		444.282.538.000	5.060.337.247.000	0,088	64.469.290.000	5.060.337.247.000	0,013
		2019		3.709.243.000	5.538.079.503.000	6,697	87.929.949.000	5.538.079.503.000	0,016
56	SMCB	2015	-	244.590.000.000	17.199.304.000.000	-0,014	533.786.000.000	17.199.304.000.000	0,031
		2016		219.381.000.000	17.321.565.000.000	0,013	983.560.000.000	17.321.565.000.000	0,057
		2017	-	76.283.000.000	19.763.133.000.000	-0,004	818.464.000.000	19.763.133.000.000	0,041
		2018		995.609.000.000	19.626.403.000.000	0,051	404.517.000.000	19.626.403.000.000	0,021
		2019		680.114.000.000	18.667.187.000.000	0,036	- 53.247.000.000	18.667.187.000.000	-0,003
57	SPMA	2015		70.706.038.558	2.091.957.078.669	0,034	85.999.470.922	2.091.957.078.669	0,041
		2016		310.918.744.089	2.185.464.365.772	0,142	266.413.599.145	2.185.464.365.772	0,122
		2017		160.702.826.011	2.158.852.415.950	0,074	131.771.691.225	2.158.852.415.950	0,061
		2018		296.130.999.196	2.175.660.855.114	0,136	224.285.334.887	2.175.660.855.114	0,103

		2019	124.892.525.583	2.282.845.632.924	0,055	112.951.558.986	2.282.845.632.924	0,049
58	SSTM	2015	- 13.674.163.465	773.663.346.934	-0,018	29.295.185.872	773.663.346.934	0,038
		2016	- 69.489.294.490	721.884.167.684	-0,096	42.265.424.796	721.884.167.684	0,059
		2017	- 92.848.366.665	649.654.335.962	-0,143	25.549.790.980	649.654.335.962	0,039
		2018	66.401.767.663	605.643.301.307	0,110	14.880.768.388	605.643.301.307	0,025
		2019	- 56.130.631.413	562.174.180.897	-0,100	33.552.722.613	562.174.180.897	0,060
59	STAR	2015	30.345.301.997	775.917.827.931	0,039	33.093.380.375	775.917.827.931	0,043
		2016	- 129.486.717.999	729.020.553.284	-0,178	36.390.716.827	729.020.553.284	0,050
		2017	- 14.984.452.206	690.187.353.961	-0,022	78.783.737.756	690.187.353.961	0,114
		2018	17.337.075.620	614.705.038.056	0,028	30.736.659.689	614.705.038.056	0,050
		2019	- 53.320.624.389	332.864.525.071	-0,160	75.582.953.903	332.864.525.071	0,227
60	SULI	2015	331.786.805.115	904.045.327.760	0,367	931.244.483.685	904.045.327.760	1,030
		2016	103.660.230.069	1.172.785.815.190	0,088	42.790.556.284	1.172.785.815.190	0,036
		2017	- 97.377.288.976	1.230.359.322.856	-0,079	1.651.894.092	1.230.359.322.856	0,001
		2018	465.948.480.531	1.118.083.884.156	0,417	64.648.426.122	1.118.083.884.156	0,058
		2019	- 424.828.076.257	1.465.334.098.758	-0,290	65.087.403.000	1.465.334.098.758	0,044
61	TFCO	2015	- 953.610.581.945	4.233.513.947.440	-0,225	372.393.693.645	4.233.513.947.440	0,088
		2016	- 43.029.571.375	4.345.712.832.675	-0,010	328.484.980.628	4.345.712.832.675	0,076
		2017	430.218.557.460	4.330.207.098.456	0,099	300.500.844.984	4.330.207.098.456	0,069
		2018	368.592.515.142	4.486.669.835.448	0,082	56.985.616.719	4.486.669.835.448	0,013
		2019	- 624.337.612.936	4.660.751.367.027	-0,134	342.028.336.774	4.660.751.367.027	0,073
62	TIRT	2015	38.208.080.664	716.491.912.027	0,053	16.167.875.835	716.491.912.027	0,023
		2016	- 9.251.106.341	763.168.027.178	-0,012	2.138.273.411	763.168.027.178	0,003
		2017	- 47.917.568.385	815.997.477.795	-0,059	12.654.191.609	815.997.477.795	0,016
		2018	247.201.967.692	859.299.056.455	0,288	12.639.503.604	859.299.056.455	0,015
		2019	- 396.953.894.381	923.366.433.799	-0,430	7.895.681.075	923.366.433.799	0,009
63	TKIM	2015	- 205.137.055.000	33.723.173.040.000	-0,006	4.880.064.020.000	33.723.173.040.000	0,145
		2016	- 1.263.239.873.000	37.024.028.035.000	-0,034	2.031.482.892.000	37.024.028.035.000	0,055
		2017	312.339.548.000	33.472.864.952.000	0,009	619.401.012.000	33.472.864.952.000	0,019

		2018	1.582.324.980.000	34.965.694.500.000	0,045	591.592.293.000	34.965.694.500.000	0,017
		2019	- 450.330.622.000	42.938.134.416.000	-0,010	2.258.984.939.000	42.938.134.416.000	0,053
64	UNIC	2015	- 1.039.803.591.100	2.935.515.340.880	-0,354	105.931.253.200	2.935.515.340.880	0,036
		2016	- 227.536.576.796	3.068.663.262.500	-0,074	163.443.511.856	3.068.663.262.500	0,053
		2017	632.960.659.260	3.048.811.653.604	0,208	252.177.335.096	3.048.811.653.604	0,083
		2018	731.303.427.285	3.031.323.678.600	0,241	86.087.474.217	3.031.323.678.600	0,028
		2019	- 509.645.550.045	3.423.458.828.628	-0,149	222.334.444.887	3.423.458.828.628	0,065
65	YPAS	2015	- 144.113.608.838	320.882.480.510	-0,449	33.677.132.098	320.882.480.510	0,105
		2016	929.321.054	279.189.768.587	0,003	16.763.181.683	279.189.768.587	0,060
		2017	6.556.920.693	280.257.664.992	0,023	27.114.919.034	280.257.664.992	0,097
		2018	127.944.554.154	303.542.864.533	0,422	- 30.780.019.664	303.542.864.533	-0,101
		2019	- 24.714.457.369	330.955.269.476	-0,075	57.946.283.372	330.955.269.476	0,175

Keterangan: Perhitungan x1 dan x2 sama seperti tabel Abn_DISC diatas



Lampiran 7

Data Abnormal Production Cost (Abn_PROD)

No	Kode	Tahun	x4			Y		
			Perubahan Penjualan t-1	Total asset t-1	x4	Biaya Produksi	Total asset t-1	y
1	ADMG	2015	- 572.757.281.435	5.797.867.944.200	-0,099	4.375.328.821.555	5.797.867.944.200	0,755
		2016	- 1.298.082.294.690	5.794.041.150.440	-0,224	4.058.944.590.740	5.794.041.150.440	0,701
		2017	- 527.029.021.150	5.117.067.305.592	-0,103	4.137.438.216.360	5.117.067.305.592	0,809
		2018	554.715.791.040	5.068.446.385.044	0,109	4.994.896.705.929	5.068.446.385.044	0,985
		2019	848.260.198.929	4.064.524.965.774	0,209	3.506.768.002.941	4.064.524.965.774	0,863
2	AISA	2015	1.083.239.000.000	7.373.868.000.000	0,147	5.065.921.000.000	7.373.868.000.000	0,687
		2016	870.921.000.000	9.060.979.000.000	0,096	5.362.999.000.000	9.060.979.000.000	0,592
		2017	534.785.000.000	9.254.539.000.000	0,058	3.626.060.000.000	9.254.539.000.000	0,392
		2018	- 1.625.048.000.000	8.724.734.000.000	-0,186	- 210.322.000.000	8.724.734.000.000	-0,024
		2019	- 3.337.367.000.000	1.816.406.000.000	-1,837	1.072.584.000.000	1.816.406.000.000	0,590
3	AKPI	2015	281.997.841.000	2.227.042.590.000	0,127	1.855.956.919.000	2.227.042.590.000	0,833
		2016	72.083.480.000	2.883.143.132.000	0,025	1.722.550.878.000	2.883.143.132.000	0,597
		2017	29.752.128.000	2.615.909.190.000	0,011	1.950.619.289.000	2.615.909.190.000	0,746
		2018	17.639.004.000	2.745.325.833.000	0,006	2.265.637.010.000	2.745.325.833.000	0,825
		2019	322.562.393.000	2.776.775.756.000	0,116	2.015.288.261.000	2.776.775.756.000	0,726
4	ALKA	2015	130.744.443.000	244.879.397.000	0,534	736.485.625.000	244.879.397.000	3,008
		2016	- 481.218.221.000	144.628.405.000	-3,327	1.120.096.000.000	144.628.405.000	7,745
		2017	402.459.264.000	136.618.855.000	2,946	1.905.365.535.000	136.618.855.000	13,947
		2018	781.178.149.000	305.208.703.000	2,559	3.528.054.322.000	305.208.703.000	11,559
		2019	1.660.014.330.000	604.824.614.000	2,745	2.153.448.989.000	604.824.614.000	3,560
5	ALMI	2015	- 119.235.217.368	3.212.438.981.224	-0,037	2.664.891.948.725	3.212.438.981.224	0,830
		2016	- 2.757.901.297	2.189.037.586.057	-0,001	2.509.117.634.584	2.189.037.586.057	1,146
		2017	- 871.529.285.204	2.153.030.503.531	-0,405	3.502.966.829.870	2.153.030.503.531	1,627

		2018	1.023.104.803.148	2.376.281.796.928	0,431	4.601.442.792.432	2.376.281.796.928	1,936
		2019	937.975.284.589	1.725.649.624.878	0,544	1.729.188.403.176	1.725.649.624.878	1,002
6	ALTO	2015	- 154.798.103.937	1.236.807.511.653	-0,125	220.467.270.124	1.236.807.511.653	0,178
		2016	- 30.620.541.483	1.180.228.072.164	-0,026	208.652.267.994	1.180.228.072.164	0,177
		2017	- 5.310.329.549	1.165.093.632.823	-0,005	229.077.877.582	1.165.093.632.823	0,197
		2018	- 34.327.511.526	1.109.383.971.111	-0,031	257.050.232.682	1.109.383.971.111	0,232
		2019	28.130.848.478	1.109.843.522.344	0,025	296.335.536.440	1.109.843.522.344	0,267
7	AMFG	2015	359.170.000.000	3.946.125.000.000	0,091	2.984.820.000.000	3.946.125.000.000	0,756
		2016	455.706.000.000	4.270.275.000.000	0,107	3.035.782.000.000	4.270.275.000.000	0,711
		2017	58.086.000.000	5.504.890.000.000	0,011	3.485.152.000.000	5.504.890.000.000	0,633
		2018	161.716.000.000	6.267.816.000.000	0,026	3.940.542.000.000	6.267.816.000.000	0,629
		2019	557.471.000.000	8.432.632.000.000	0,066	3.992.668.000.000	8.432.632.000.000	0,473
8	ARGO	2015	- 243.877.823.808	1.814.130.188.440	-0,134	643.364.526.155	1.814.130.188.440	0,355
		2016	- 679.533.785.825	1.796.823.167.150	-0,378	727.194.047.535	1.796.823.167.150	0,405
		2017	29.510.141.257	1.560.692.613.388	0,019	431.789.816.604	1.560.692.613.388	0,277
		2018	- 202.522.606.220	1.333.933.939.416	-0,152	432.054.853.575	1.333.933.939.416	0,324
		2019	- 2.405.980.356	1.279.018.222.128	-0,002	225.850.682.047	1.279.018.222.128	0,177
9	BAJA	2015	177.713.514.844	959.445.449.616	0,185	1.156.497.260.866	959.445.449.616	1,205
		2016	21.348.993.867	948.682.681.142	0,023	1.033.663.977.656	948.682.681.142	1,090
		2017	- 272.352.994.708	982.626.956.424	-0,277	1.238.702.111.146	982.626.956.424	1,261
		2018	239.477.187.279	946.448.936.464	0,253	1.210.670.244.058	946.448.936.464	1,279
		2019	61.492.056.851	901.181.796.270	0,068	1.023.901.344.429	901.181.796.270	1,136
10	BRNA	2015	- 154.074.598.094	1.334.086.016.000	-0,115	1.071.141.047.000	1.334.086.016.000	0,803
		2016	19.512.202.000	1.820.783.911.000	0,011	1.181.015.110.000	1.820.783.911.000	0,649
		2017	86.495.963.000	2.088.696.909.000	0,041	1.215.054.179.000	2.088.696.909.000	0,582
		2018	- 54.408.909.000	1.964.877.082.000	-0,028	1.294.620.679.000	1.964.877.082.000	0,659
		2019	8.904.207.000	2.461.326.183.000	0,004	1.106.050.931.000	2.461.326.183.000	0,449
11	BRPT	2015	108.432.036.000	28.927.926.240.000	0,004	17.237.462.330.000	28.927.926.240.000	0,596
		2016	- 11.414.786.775.000	31.081.293.780.000	-0,367	19.992.801.648.000	31.081.293.780.000	0,643

		2017	6.954.433.347.000	34.538.447.240.000	0,201	26.473.795.532.000	34.538.447.240.000	0,767
		2018	6.879.050.304.000	49.354.388.544.000	0,139	33.584.319.027.000	49.354.388.544.000	0,680
		2019	11.306.027.685.000	101.982.312.171.000	0,111	26.214.241.389.000	101.982.312.171.000	0,257
12	BTEK	2015	- 3.594.385.801	443.046.469.330	-0,008	60.863.645.726	443.046.469.330	0,137
		2016	- 50.575.312.837	495.390.442.927	-0,102	632.575.113.163	495.390.442.927	1,277
		2017	698.972.879.147	4.879.715.095.300	0,143	1.092.425.246.515	4.879.715.095.300	0,224
		2018	139.052.387.678	5.306.055.112.389	0,026	896.242.349.385	5.306.055.112.389	0,169
		2019	2.904.663.787	5.165.236.468.706	5,620	741.272.860.766	5.165.236.468.706	0,144
13	BTON	2015	- 17.539.373.664	174.088.741.855	-0,101	65.599.924.003	174.088.741.855	0,377
		2016	- 28.328.966.600	183.116.245.288	-0,155	55.901.708.696	183.116.245.288	0,305
		2017	- 4.919.420.290	177.290.628.918	-0,028	69.926.067.442	177.290.628.918	0,394
		2018	25.250.753.120	183.501.650.442	0,138	87.637.107.258	183.501.650.442	0,478
		2019	29.478.329.080	217.362.960.011	0,136	105.997.264.121	217.362.960.011	0,488
14	CPRO	2015	- 5.900.985.000.000	7.086.117.000.000	-0,833	7.581.055.000.000	7.086.117.000.000	1,070
		2016	- 479.597.000.000	9.086.586.000.000	-0,053	6.693.499.000.000	9.086.586.000.000	0,737
		2017	- 377.856.000.000	7.323.273.000.000	-0,052	5.274.340.000.000	7.323.273.000.000	0,720
		2018	- 2.021.638.000.000	7.006.675.000.000	-0,289	6.226.321.000.000	7.006.675.000.000	0,889
		2019	815.010.000.000	6.572.440.000.000	0,124	5.750.330.000.000	6.572.440.000.000	0,875
15	CTBN	2015	- 395.593.910.969	3.236.848.901.080	-0,122	1.431.604.328.805	3.236.848.901.080	0,442
		2016	- 1.012.705.342.325	3.182.228.199.080	-0,318	340.500.554.152	3.182.228.199.080	0,107
		2017	- 244.641.768.479	2.144.702.770.216	-0,114	604.566.864.808	2.144.702.770.216	0,282
		2018	- 650.165.058.276	2.024.761.497.696	-0,321	1.428.993.374.952	2.024.761.497.696	0,706
		2019	566.396.207.139	2.254.015.683.477	0,251	1.821.358.720.989	2.254.015.683.477	0,808
16	ECII	2015	214.159.128.971	2.003.579.371.172	0,107	1.395.213.297.801	2.003.579.371.172	0,696
		2016	- 446.167.304.784	1.898.418.873.433	-0,235	1.405.774.429.325	1.898.418.873.433	0,740
		2017	- 120.752.711.325	1.881.645.933.066	-0,064	1.508.056.566.150	1.881.645.933.066	0,801
		2018	158.621.626.098	1.899.930.632.192	0,083	1.514.374.371.235	1.899.930.632.192	0,797
		2019	184.737.296.522	1.751.622.687.179	0,105	1.589.558.272.429	1.751.622.687.179	0,907
17	ERTX	2015	- 17.434.605.500	579.706.512.880	-0,030	865.842.368.635	579.706.512.880	1,494

		2016	277.219.702.570	731.007.547.995	0,379	845.952.671.743	731.007.547.995	1,157
		2017	- 6.387.114.294	707.526.283.692	-0,009	994.089.773.864	707.526.283.692	1,405
		2018	23.025.242.644	802.839.170.760	0,029	974.241.547.101	802.839.170.760	1,213
		2019	127.662.134.178	906.305.751.774	0,141	1.213.167.897.992	906.305.751.774	1,339
18	ESTI	2015	- 13.216.045.395	866.377.567.560	-0,015	529.433.738.815	866.377.567.560	0,611
		2016	- 77.209.962.035	784.070.774.220	-0,098	469.696.195.931	784.070.774.220	0,599
		2017	- 37.674.558.721	664.186.651.832	-0,057	464.240.789.292	664.186.651.832	0,699
		2018	3.405.602.436	834.008.756.304	0,004	547.044.196.917	834.008.756.304	0,656
		2019	45.219.368.976	898.223.413.320	0,050	428.050.343.055	898.223.413.320	0,477
19	FASW	2015	496.110.402.020	5.581.000.723.345	0,089	4.645.713.600.257	5.581.000.723.345	0,832
		2016	- 496.936.990.890	6.993.634.266.969	-0,071	4.559.017.282.160	6.993.634.266.969	0,652
		2017	914.746.103.404	8.583.223.835.997	0,107	6.249.492.787.361	8.583.223.835.997	0,728
		2018	1.462.440.106.147	9.369.891.776.775	0,156	6.946.626.302.177	9.369.891.776.775	0,741
		2019	2.601.125.552.564	10.965.118.708.784	0,237	6.413.558.567.340	10.965.118.708.784	0,585
20	FPNI	2015	587.008.765.000	3.187.215.080.000	0,184	6.093.562.390.000	3.187.215.080.000	1,912
		2016	- 1.425.424.905.000	3.216.042.145.000	-0,443	5.656.818.780.000	3.216.042.145.000	1,759
		2017	- 372.548.035.000	2.750.470.124.000	-0,135	5.758.571.060.000	2.750.470.124.000	2,094
		2018	- 65.389.092.000	2.599.278.636.000	-0,025	6.194.785.386.000	2.599.278.636.000	2,383
		2019	404.630.400.000	2.835.756.306.000	0,143	4.428.771.693.000	2.835.756.306.000	1,562
21	GDST	2015	- 194.505.611.168	1.357.932.144.522	-0,143	803.870.502.998	1.357.932.144.522	0,592
		2016	- 301.819.155.302	1.183.934.183.257	-0,255	696.813.702.895	1.183.934.183.257	0,589
		2017	- 156.510.098.360	1.257.609.869.910	-0,124	1.103.541.338.853	1.257.609.869.910	0,877
		2018	646.781.223.856	1.374.987.178.565	0,470	1.525.209.422.553	1.374.987.178.565	1,109
		2019	152.224.232.130	1.351.861.756.994	0,113	1.947.423.888.474	1.351.861.756.994	1,441
22	GDYR	2015	- 247.486.667.620	1.561.198.217.560	-0,159	1.847.150.265.485	1.561.198.217.560	1,183
		2016	130.022.668.760	1.645.962.330.085	0,079	1.723.845.652.360	1.645.962.330.085	1,047
		2017	- 45.067.955.968	1.516.129.539.676	-0,030	2.000.781.984.780	1.516.129.539.676	1,320
		2018	99.898.715.460	1.676.776.348.800	0,060	2.161.532.834.901	1.676.776.348.800	1,289
		2019	131.149.470.597	1.705.623.558.111	0,077	1.717.285.795.126	1.705.623.558.111	1,007

23	GJTL	2015	717.817.000.000	16.122.036.000.000	0,045	10.211.636.000.000	16.122.036.000.000	0,633
		2016	- 100.497.000.000	17.509.505.000.000	-0,006	10.606.515.000.000	17.509.505.000.000	0,606
		2017	663.319.000.000	18.697.779.000.000	0,035	11.928.444.000.000	18.697.779.000.000	0,638
		2018	513.362.000.000	18.191.176.000.000	0,028	13.643.790.000.000	18.191.176.000.000	0,750
		2019	1.203.021.000.000	19.711.478.000.000	0,061	12.384.848.000.000	19.711.478.000.000	0,628
24	HERO	2015	1.663.675.000.000	8.295.642.000.000	0,201	10.807.655.000.000	8.295.642.000.000	1,303
		2016	788.671.000.000	7.799.639.000.000	0,101	10.016.623.000.000	7.799.639.000.000	1,284
		2017	- 674.769.000.000	7.487.033.000.000	-0,090	9.246.061.000.000	7.487.033.000.000	1,235
		2018	- 644.293.000.000	7.363.144.000.000	-0,088	9.301.529.000.000	7.363.144.000.000	1,263
		2019	- 63.249.000.000	6.154.748.000.000	-0,010	8.690.473.000.000	6.154.748.000.000	1,412
25	IIKP	2015	- 3.214.780.018	350.994.617.873	-0,009	29.438.803.079	350.994.617.873	0,084
		2016	- 1.676.029.988	332.003.087.466	-0,005	99.973.830.858	332.003.087.466	0,301
		2017	64.401.374.237	364.933.257.765	0,176	24.199.067.488	364.933.257.765	0,066
		2018	- 62.941.925.942	313.924.526.593	-0,201	30.553.508.480	313.924.526.593	0,097
		2019	- 3.610.378.441	298.090.648.072	-0,012	30.000.263.573	298.090.648.072	0,101
26	IKAI	2015	50.798.064.000	518.546.655.125	0,098	115.240.966.464	518.546.655.125	0,222
		2016	- 121.121.582.896	390.042.617.783	-0,311	33.369.500.530	390.042.617.783	0,086
		2017	- 57.427.138.647	265.028.561.223	-0,217	20.023.698.000	265.028.561.223	0,076
		2018	- 70.475.212.000	229.825.182.000	-0,307	5.354.441.000	229.825.182.000	0,023
		2019	- 2.020.751.000	1.337.016.109.000	-0,002	53.640.377.000	1.337.016.109.000	0,040
27	IMAS	2015	- 636.571.222.047	23.473.796.788.460	-0,027	14.805.252.001.404	23.473.796.788.460	0,631
		2016	- 1.358.185.389.873	24.860.957.839.497	-0,055	11.496.733.514.534	24.860.957.839.497	0,462
		2017	- 3.050.447.451.553	25.633.342.258.679	-0,119	12.913.053.479.686	25.633.342.258.679	0,504
		2018	309.904.956.593	31.440.443.615.533	0,010	15.653.079.414.316	31.440.443.615.533	0,498
		2019	2.518.834.234.453	40.955.996.273.862	0,062	13.896.766.650.361	40.955.996.273.862	0,339
28	INAF	2015	43.938.386.405	1.249.763.660.131	0,035	1.375.709.081.493	1.249.763.660.131	1,101
		2016	240.462.089.542	1.533.708.564.241	0,157	1.329.933.122.350	1.533.708.564.241	0,867
		2017	52.804.054.671	1.381.633.321.120	0,038	1.310.772.085.114	1.381.633.321.120	0,949
		2018	- 43.385.223.232	1.529.874.782.290	-0,028	1.269.575.745.043	1.529.874.782.290	0,830

		2019	-	38.337.557.838	1.442.350.608.575	-0,027	1.041.429.062.108	1.442.350.608.575	0,722
29	INDR	2015	-	212.152.499.869	9.701.335.530.120	-0,022	8.754.126.602.295	9.701.335.530.120	0,902
		2016		2.070.461.682.320	11.102.923.628.320	0,186	8.267.705.084.348	11.102.923.628.320	0,745
		2017	-	114.285.314.110	11.334.363.640.584	-0,010	9.308.700.339.232	11.334.363.640.584	0,821
		2018		1.244.855.191.400	10.839.869.565.108	0,115	11.749.039.985.178	10.839.869.565.108	1,084
		2019		1.616.809.942.020	11.729.096.865.765	0,138	10.022.583.206.297	11.729.096.865.765	0,855
30	INDS	2015		164.530.161.254	2.282.666.078.493	0,072	1.535.504.198.904	2.282.666.078.493	0,673
		2016	-	207.471.620.844	2.553.928.346.219	-0,081	1.268.268.124.681	2.553.928.346.219	0,497
		2017	-	22.468.849.142	2.477.272.502.538	-0,009	1.520.745.182.933	2.477.272.502.538	0,614
		2018		330.946.112.653	2.434.617.337.849	0,136	2.037.911.652.895	2.434.617.337.849	0,837
		2019		432.079.325.018	2.482.337.567.967	0,174	1.833.404.305.566	2.482.337.567.967	0,739
31	INRU	2015		242.433.592.000	4.108.110.960.000	0,059	1.262.960.740.000	4.108.110.960.000	0,307
		2016	-	28.233.225.000	4.606.205.680.000	-0,006	1.034.647.828.000	4.606.205.680.000	0,225
		2017	-	200.509.431.000	4.560.554.608.000	-0,044	1.382.964.308.000	4.560.554.608.000	0,303
		2018		548.504.756.000	4.573.601.580.000	0,120	1.955.576.046.000	4.573.601.580.000	0,428
		2019		77.307.243.000	5.954.949.225.000	0,013	1.223.962.799.000	5.954.949.225.000	0,206
32	ISSP	2015	-	166.145.000.000	5.443.158.000.000	-0,031	2.497.683.000.000	5.443.158.000.000	0,459
		2016		215.668.000.000	5.447.784.000.000	0,040	2.952.035.000.000	5.447.784.000.000	0,542
		2017	-	324.341.000.000	6.041.811.000.000	-0,054	3.061.957.000.000	6.041.811.000.000	0,507
		2018		403.610.000.000	6.269.365.000.000	0,064	4.179.010.000.000	6.269.365.000.000	0,667
		2019		804.780.000.000	6.494.070.000.000	0,124	3.992.712.000.000	6.494.070.000.000	0,615
33	JECC	2015		2.939.016.000	1.064.129.232.000	0,003	1.443.633.957.000	1.064.129.232.000	1,357
		2016		170.323.762.000	1.358.464.081.000	0,125	1.926.926.736.000	1.358.464.081.000	1,418
		2017		374.448.966.000	1.587.210.576.000	0,236	2.057.260.570.000	1.587.210.576.000	1,296
		2018		146.734.051.000	1.927.985.352.000	0,076	2.910.252.326.000	1.927.985.352.000	1,509
		2019		1.023.061.071.000	2.102.146.140.000	0,487	2.473.422.314.000	2.102.146.140.000	1,177
34	KA EF	2015		172.950.391.374	3.012.778.637.568	0,057	3.378.530.213.910	3.012.778.637.568	1,121
		2016		339.347.103.764	3.434.879.313.034	0,099	4.172.615.975.274	3.434.879.313.034	1,215
		2017		951.131.172.907	4.612.562.541.064	0,206	4.150.615.583.783	4.612.562.541.064	0,900

		2018	443.809.726.863	6.096.148.972.534	0,073	6.029.718.096.855	6.096.148.972.534	0,989
		2019	2.203.934.903.706	11.329.090.864.000	0,195	6.620.337.866.000	11.329.090.864.000	0,584
35	KIAS	2015	- 11.868.855.798	2.268.246.639.101	-0,005	795.010.681.580	2.268.246.639.101	0,350
		2016	- 98.584.541.437	2.124.390.696.519	-0,046	66.332.023.042	2.124.390.696.519	0,031
		2017	63.322.146.409	1.859.669.927.962	0,034	806.358.296.595	1.859.669.927.962	0,434
		2018	- 53.650.460.541	1.767.603.505.697	-0,030	884.650.519.268	1.767.603.505.697	0,500
		2019	65.899.044.386	1.704.424.579.208	0,039	1.024.474.270.843	1.704.424.579.208	0,601
36	KICI	2015	3.941.621.780	100.322.024.001	0,039	82.887.005.310	100.322.024.001	0,826
		2016	- 11.236.594.379	133.831.888.816	-0,084	79.459.499.548	133.831.888.816	0,594
		2017	- 40.427.108.354	139.809.135.385	-0,289	92.055.257.239	139.809.135.385	0,658
		2018	- 36.005.294.835	149.420.009.884	-0,241	77.370.755.185	149.420.009.884	0,518
		2019	- 67.172.586.437	154.088.747.766	-0,436	76.912.331.256	154.088.747.766	0,499
37	KRAS	2015	- 2.158.904.872.000	32.398.201.080.000	-0,067	18.395.454.135.000	32.398.201.080.000	0,568
		2016	- 5.013.883.515.000	51.071.076.480.000	-0,098	16.709.685.370.000	51.071.076.480.000	0,327
		2017	- 166.957.545.000	52.893.675.868.000	-0,003	16.912.796.836.000	52.893.675.868.000	0,320
		2018	1.563.732.220.000	55.741.701.528.000	0,028	23.858.487.504.000	55.741.701.528.000	0,428
		2019	5.592.363.447.000	51.859.183.428.000	0,108	16.126.208.788.000	51.859.183.428.000	0,311
38	LION	2015	43.948.272.184	605.165.911.239	0,073	241.663.831.221	605.165.911.239	0,399
		2016	11.628.570.259	639.330.150.373	0,018	233.288.774.465	639.330.150.373	0,365
		2017	- 10.114.043.373	685.812.995.987	-0,015	238.325.807.694	685.812.995.987	0,348
		2018	- 29.446.352.895	681.937.947.736	-0,043	256.382.525.548	681.937.947.736	0,376
		2019	74.437.624.586	696.192.628.101	0,107	260.414.601.810	696.192.628.101	0,374
39	LMPI	2015	- 162.563.760.792	808.892.238.344	-0,201	343.874.105.023	808.892.238.344	0,425
		2016	- 60.853.724.768	793.093.512.600	-0,077	315.174.303.445	793.093.512.600	0,397
		2017	- 40.748.186.903	810.364.824.722	-0,050	374.218.900.558	810.364.824.722	0,462
		2018	801.233.293	834.548.374.286	0,001	423.942.678.753	834.548.374.286	0,508
		2019	44.411.794.087	786.704.752.983	0,056	500.134.815.251	786.704.752.983	0,636
40	LMSH	2015	- 7.138.748.453	141.034.984.628	-0,051	155.698.977.352	141.034.984.628	1,104
		2016	- 74.473.046.431	133.782.751.041	-0,557	159.628.929.434	133.782.751.041	1,193

		2017	-	16.743.881.902	162.828.169.250	-0,103	188.962.718.436	162.828.169.250	1,161
		2018		66.516.080.515	161.163.426.840	0,413	221.586.345.661	161.163.426.840	1,375
		2019		15.658.484.294	160.027.280.153	0,098	183.938.973.230	160.027.280.153	1,149
41	LPIN	2015	-	7.075.662.470	180.781.762.691	-0,039	41.586.047.184	180.781.762.691	0,230
		2016		7.634.706.822	324.054.785.283	0,024	91.468.537.306	324.054.785.283	0,282
		2017		63.956.692.343	477.838.306.256	0,134	76.060.801.167	477.838.306.256	0,159
		2018	-	38.797.690.274	268.116.498.330	-0,145	80.075.618.178	268.116.498.330	0,299
		2019	-	7.736.491.660	301.596.448.818	-0,026	53.955.821.769	301.596.448.818	0,179
42	MAIN	2015		308.995.662.000	3.530.183.618.000	0,088	4.175.677.080.000	3.530.183.618.000	1,183
		2016		272.936.645.000	3.962.068.064.000	0,069	4.425.203.594.000	3.962.068.064.000	1,117
		2017		462.695.377.000	3.826.862.840.000	0,121	4.960.993.977.000	3.826.862.840.000	1,296
		2018		203.685.686.000	4.072.245.477.000	0,050	6.217.587.542.000	4.072.245.477.000	1,527
		2019		1.264.496.900.000	4.335.844.455.000	0,292	6.683.812.221.000	4.335.844.455.000	1,542
43	MASA	2015	-	411.161.150.323	7.781.372.887.600	-0,053	2.918.813.315.785	7.781.372.887.600	0,375
		2016	-	267.030.190.790	8.255.331.324.415	-0,032	2.613.232.237.559	8.255.331.324.415	0,317
		2017	-	182.121.508.538	8.192.536.641.560	-0,022	3.569.623.275.612	8.192.536.641.560	0,436
		2018		719.046.335.324	8.909.284.523.676	0,081	3.773.068.804.791	8.909.284.523.676	0,423
		2019		517.970.328.945	8.066.661.960.564	0,064	4.007.251.443.455	8.066.661.960.564	0,497
44	MBTO	2015		30.114.263.528	623.002.100.394	0,048	354.228.744.037	623.002.100.394	0,569
		2016		23.383.902.528	648.899.377.240	0,036	345.254.949.375	648.899.377.240	0,532
		2017	-	9.338.831.426	709.959.168.088	-0,013	365.041.851.807	709.959.168.088	0,514
		2018		46.133.422.703	780.669.761.787	0,059	291.638.819.001	780.669.761.787	0,374
		2019	-	384.060.220.176	648.016.880.325	-0,593	303.687.556.240	648.016.880.325	0,469
45	MLIA	2015		432.687.093.000	7.220.918.333.000	0,060	4.852.585.411.000	7.220.918.333.000	0,672
		2016		84.292.710.000	7.125.800.277.000	0,012	4.807.072.662.000	7.125.800.277.000	0,675
		2017		79.748.185.000	7.723.578.677.000	0,010	4.462.827.032.000	7.723.578.677.000	0,578
		2018		483.398.091.000	5.186.685.608.000	0,093	5.206.736.208.000	5.186.685.608.000	1,004
		2019	-	700.191.443.000	5.263.726.099.000	-0,133	3.549.988.117.000	5.263.726.099.000	0,674
46	MRAT	2015		76.619.556.097	500.138.658.228	0,153	174.048.710.442	500.138.658.228	0,348

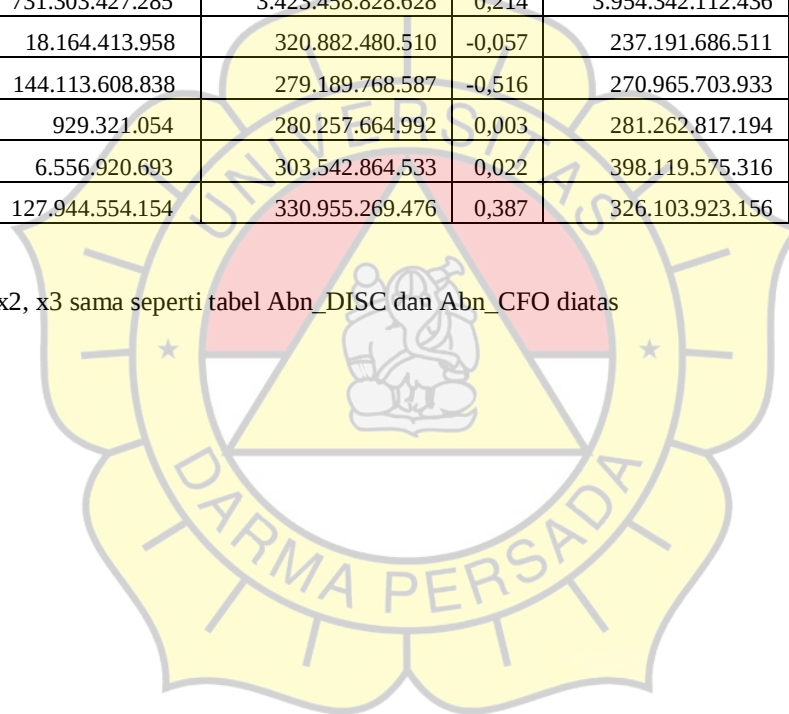
		2016	384.618.030.905	497.090.038.108	0,774	154.065.200.744	497.090.038.108	0,310
		2017	- 83.731.387.240	483.037.173.864	-0,173	164.149.984.843	483.037.173.864	0,340
		2018	317.320.980	497.354.419.089	6,380	142.835.713.599	497.354.419.089	0,287
		2019	- 44.105.914.512	511.887.783.867	-0,086	122.800.018.737	511.887.783.867	0,240
47	MYTX	2015	228.756.000.000	2.042.336.000.000	0,112	1.898.289.000.000	2.042.336.000.000	0,929
		2016	- 237.868.000.000	1.944.326.000.000	-0,122	1.335.325.000.000	1.944.326.000.000	0,687
		2017	- 594.437.000.000	1.619.757.000.000	-0,367	1.951.043.000.000	1.619.757.000.000	1,205
		2018	343.656.000.000	3.458.737.000.000	0,099	2.203.883.000.000	3.458.737.000.000	0,637
		2019	1.868.325.000.000	3.747.570.000.000	0,499	1.997.650.000.000	3.747.570.000.000	0,533
48	NIKL	2015	- 75.457.525.280	1.414.683.816.160	-0,053	1.716.348.941.745	1.414.683.816.160	1,213
		2016	- 131.738.879.670	1.568.683.816.160	-0,084	1.571.597.257.392	1.568.683.816.160	1,002
		2017	- 125.889.417.662	1.607.856.453.312	-0,078	1.951.983.920.280	1.607.856.453.312	1,214
		2018	287.449.512.472	1.708.712.249.868	0,168	2.417.759.559.081	1.708.712.249.868	1,415
		2019	305.872.198.971	2.139.961.806.972	0,143	2.002.612.514.395	2.139.961.806.972	0,936
49	POLY	2015	- 748.547.459.920	3.425.626.560.400	-0,219	5.172.806.779.975	3.425.626.560.400	1,510
		2016	- 800.566.984.090	3.207.271.780.620	-0,250	4.561.156.327.888	3.207.271.780.620	1,422
		2017	- 55.956.399.310	3.207.724.896.976	-0,017	4.972.201.507.104	3.207.724.896.976	1,550
		2018	593.544.246.624	3.137.269.106.340	0,189	6.417.383.929.713	3.137.269.106.340	2,046
		2019	1.565.686.419.021	3.450.052.316.268	0,454	5.330.433.536.935	3.450.052.316.268	1,545
50	PRAS	2015	129.489.910.706	1.286.827.899.805	0,101	467.483.114.513	1.286.827.899.805	0,363
		2016	23.980.543.522	1.535.656.724.413	0,016	215.415.188.364	1.535.656.724.413	0,140
		2017	- 102.935.473.197	1.596.466.547.662	-0,064	291.909.445.498	1.596.466.547.662	0,183
		2018	- 18.238.458.186	1.542.243.721.302	-0,012	465.390.472.179	1.542.243.721.302	0,302
		2019	226.398.588.668	1.635.543.021.515	0,138	316.612.967.568	1.635.543.021.515	0,194
51	PSDN	2015	- 304.472.014.495	622.508.294.824	-0,489	860.373.182.218	622.508.294.824	1,382
		2016	- 54.728.209.005	620.398.854.182	-0,088	789.297.873.378	620.398.854.182	1,272
		2017	12.552.958.357	653.796.725.408	0,019	1.261.175.338.154	653.796.725.408	1,929
		2018	466.674.610.555	691.014.455.523	0,675	1.163.070.277.681	691.014.455.523	1,683
		2019	- 65.509.933.985	697.657.400.651	-0,094	1.014.894.453.664	697.657.400.651	1,455

52	PTSN	2015	- 1.196.440.115.577	813.488.061.640	-1,471	1.146.396.727.435	813.488.061.640	1,409
		2016	- 236.016.320.855	876.196.777.735	-0,269	996.747.339.092	876.196.777.735	1,138
		2017	- 16.056.583.705	887.046.775.708	-0,018	1.017.366.033.408	887.046.775.708	1,147
		2018	47.707.085.092	910.475.565.024	0,052	6.604.714.537.443	910.475.565.024	7,254
		2019	4.405.465.819.380	4.164.390.083.340	1,058	3.450.537.920.098	4.164.390.083.340	0,829
53	RMBA	2015	1.966.651.000.000	10.821.467.000.000	0,182	15.965.450.000.000	10.821.467.000.000	1,475
		2016	2.324.879.000.000	12.667.314.000.000	0,184	17.752.805.000.000	12.667.314.000.000	1,401
		2017	2.414.629.000.000	13.470.943.000.000	0,179	17.368.060.000.000	13.470.943.000.000	1,289
		2018	1.029.889.000.000	14.083.598.000.000	0,073	19.207.987.000.000	14.083.598.000.000	1,364
		2019	1.664.187.000.000	14.879.589.000.000	0,112	18.243.046.000.000	14.879.589.000.000	1,226
54	SIPD	2015	- 1.348.696.645.554	2.799.604.621.544	-0,482	1.745.559.929.827	2.799.604.621.544	0,624
		2016	- 392.426.892.402	2.246.770.166.899	-0,175	2.057.792.590.190	2.246.770.166.899	0,916
		2017	314.050.789.899	2.567.211.000.000	0,122	2.151.888.000.000	2.567.211.000.000	0,838
		2018	22.762.000.000	2.239.699.000.000	0,010	2.718.656.000.000	2.239.699.000.000	1,214
		2019	670.498.000.000	2.187.879.000.000	0,306	3.511.414.000.000	2.187.879.000.000	1,605
55	SMBR	2015	46.307.100.000	2.928.480.366.000	0,016	966.101.568.000	2.928.480.366.000	0,330
		2016	246.333.352.000	3.268.667.933.000	0,075	1.000.194.233.000	3.268.667.933.000	0,306
		2017	61.559.809.000	4.368.876.996.000	0,014	1.107.660.146.000	4.368.876.996.000	0,254
		2018	28.716.897.000	5.060.337.247.000	0,006	1.377.048.318.000	5.060.337.247.000	0,272
		2019	444.282.538.000	5.538.079.503.000	0,080	1.174.412.948.000	5.538.079.503.000	0,212
56	SMCB	2015	842.461.000.000	17.199.304.000.000	0,049	8.281.798.000.000	17.199.304.000.000	0,482
		2016	- 244.590.000.000	17.321.565.000.000	-0,014	7.737.807.000.000	17.321.565.000.000	0,447
		2017	219.381.000.000	19.763.133.000.000	0,011	7.625.120.000.000	19.763.133.000.000	0,386
		2018	- 76.283.000.000	19.626.403.000.000	-0,004	8.816.245.000.000	19.626.403.000.000	0,449
		2019	995.609.000.000	18.667.187.000.000	0,053	8.312.824.000.000	18.667.187.000.000	0,445
57	SPMA	2015	154.972.068.429	2.091.957.078.669	0,074	1.440.883.409.455	2.091.957.078.669	0,689
		2016	70.706.038.558	2.185.464.365.772	0,032	1.568.675.533.031	2.185.464.365.772	0,718
		2017	310.918.744.089	2.158.852.415.950	0,144	1.853.994.418.246	2.158.852.415.950	0,859
		2018	160.702.826.011	2.175.660.855.114	0,074	2.008.812.130.637	2.175.660.855.114	0,923

		2019	296.130.999.196	2.282.845.632.924	0,130	2.130.276.585.371	2.282.845.632.924	0,933
58	SSTM	2015	- 53.894.085.894	773.663.346.934	-0,070	479.139.626.506	773.663.346.934	0,619
		2016	- 13.674.163.465	721.884.167.684	-0,019	388.072.977.559	721.884.167.684	0,538
		2017	- 69.489.294.490	649.654.335.962	-0,107	356.429.541.720	649.654.335.962	0,549
		2018	- 92.848.366.665	605.643.301.307	-0,153	380.625.498.453	605.643.301.307	0,628
		2019	66.401.767.663	562.174.180.897	0,118	312.080.158.576	562.174.180.897	0,555
59	STAR	2015	- 45.519.706.170	775.917.827.931	-0,059	196.585.729.566	775.917.827.931	0,253
		2016	30.345.301.997	729.020.553.284	0,042	90.211.857.554	729.020.553.284	0,124
		2017	- 129.486.717.999	690.187.353.961	-0,188	65.349.439.791	690.187.353.961	0,095
		2018	- 14.984.452.206	614.705.038.056	-0,024	110.264.830.757	614.705.038.056	0,179
		2019	17.337.075.620	332.864.525.071	0,052	90.679.598.836	332.864.525.071	0,272
60	SULI	2015	4.443.622.558	904.045.327.760	0,005	871.583.806.120	904.045.327.760	0,964
		2016	331.786.805.115	1.172.785.815.190	0,283	825.748.052.119	1.172.785.815.190	0,704
		2017	103.660.230.069	1.230.359.322.856	0,084	747.277.113.300	1.230.359.322.856	0,607
		2018	- 97.377.288.976	1.118.083.884.156	-0,087	1.185.600.951.786	1.118.083.884.156	1,060
		2019	465.948.480.531	1.465.334.098.758	0,318	908.850.243.756	1.465.334.098.758	0,620
61	TFCO	2015	- 214.374.158.703	4.233.513.947.440	-0,051	2.499.621.542.125	4.233.513.947.440	0,590
		2016	- 953.610.581.945	4.345.712.832.675	-0,219	2.345.997.418.875	4.345.712.832.675	0,540
		2017	- 43.029.571.375	4.330.207.098.456	-0,010	2.809.843.810.132	4.330.207.098.456	0,649
		2018	430.218.557.460	4.486.669.835.448	0,096	3.329.540.058.771	4.486.669.835.448	0,742
		2019	368.592.515.142	4.660.751.367.027	0,079	2.587.092.640.071	4.660.751.367.027	0,555
62	TIRT	2015	73.732.350.577	716.491.912.027	0,103	705.151.988.827	716.491.912.027	0,984
		2016	38.208.080.664	763.168.027.178	0,050	727.839.004.457	763.168.027.178	0,954
		2017	- 9.251.106.341	815.997.477.795	-0,011	708.713.503.602	815.997.477.795	0,869
		2018	- 47.917.568.385	859.299.056.455	-0,056	990.945.446.457	859.299.056.455	1,153
		2019	247.201.967.692	923.366.433.799	0,268	659.117.875.859	923.366.433.799	0,714
63	TKIM	2015	- 36.545.084.000	33.723.173.040.000	9,870	12.988.865.025.000	33.723.173.040.000	0,385
		2016	- 205.137.055.000	37.024.028.035.000	-0,006	11.497.968.911.000	37.024.028.035.000	0,311
		2017	- 1.263.239.873.000	33.472.864.952.000	-0,038	12.017.019.252.000	33.472.864.952.000	0,359

		2018	312.339.548.000	34.965.694.500.000	0,009	15.245.968.614.000	34.965.694.500.000	0,436
		2019	1.582.324.980.000	42.938.134.416.000	0,037	12.091.006.922.000	42.938.134.416.000	0,282
64	UNIC	2015	- 373.758.451.389	2.935.515.340.880	-0,127	3.768.282.974.890	2.935.515.340.880	1,284
		2016	- 1.039.803.591.100	3.068.663.262.500	-0,339	3.096.037.449.560	3.068.663.262.500	1,009
		2017	- 227.536.576.796	3.048.811.653.604	-0,075	3.895.185.090.076	3.048.811.653.604	1,278
		2018	632.960.659.260	3.031.323.678.600	0,209	4.936.920.243.504	3.031.323.678.600	1,629
		2019	731.303.427.285	3.423.458.828.628	0,214	3.954.342.112.436	3.423.458.828.628	1,155
65	YPAS	2015	- 18.164.413.958	320.882.480.510	-0,057	237.191.686.511	320.882.480.510	0,739
		2016	- 144.113.608.838	279.189.768.587	-0,516	270.965.703.933	279.189.768.587	0,971
		2017	929.321.054	280.257.664.992	0,003	281.262.817.194	280.257.664.992	1,004
		2018	6.556.920.693	303.542.864.533	0,022	398.119.575.316	303.542.864.533	1,312
		2019	127.944.554.154	330.955.269.476	0,387	326.103.923.156	330.955.269.476	0,985

Keterangan: Perhitungan x1, x2, x3 sama seperti tabel Abn_DISC dan Abn_CFO diatas



Lampiran 8

Tabulasi Data

No	Kode	Tahun	Kualitas Audit	Leverage	Ukuran Perusahaan	REM
1	ADMG	2015	1	0,362	29,388	0,828
		2016	1	0,355	29,264	0,751
		2017	1	0,360	29,254	0,873
		2018	1	0,131	29,033	1,014
		2019	1	0,186	28,917	0,925
2	AISA	2015	0	0,562	29,835	0,814
		2016	0	0,539	29,856	0,717
		2017	0	0,610	29,797	0,520
		2018	0	2,900	28,228	0,053
		2019	0	1,887	28,256	0,894
3	AKPI	2015	1	0,616	28,690	0,860
		2016	1	0,572	28,593	0,777
		2017	1	0,590	28,641	0,845
		2018	1	0,881	28,366	0,857
		2019	1	0,552	28,652	0,862
4	ALKA	2015	0	0,571	25,697	3,066
		2016	0	0,553	25,640	7,970
		2017	0	0,743	26,444	14,112
		2018	0	0,845	27,199	11,901
		2019	0	0,827	27,128	4,014
5	ALMI	2015	0	0,742	28,414	1,403
		2016	0	0,812	28,398	1,211
		2017	0	0,841	28,497	1,495
		2018	0	0,882	28,654	1,794
		2019	0	0,999	28,177	1,195
6	ALTO	2015	0	0,570	27,797	0,233
		2016	0	0,587	27,784	0,245
		2017	0	0,622	27,735	0,266
		2018	0	0,651	27,735	0,285
		2019	0	0,655	27,729	0,342
7	AMFG	2015	1	0,206	29,083	0,953
		2016	1	0,346	29,337	0,884
		2017	1	0,434	29,466	0,771
		2018	1	0,573	29,763	0,743
		2019	1	0,610	29,799	0,530
8	ARGO	2015	0	1,243	28,217	0,363
		2016	0	1,491	28,076	0,314
		2017	0	1,734	27,919	0,306
		2018	0	1,907	27,877	0,342

		2019	0	2,019	27,818	0,161
9	BAJA	2015	0	0,830	27,578	1,249
		2016	0	0,800	27,613	1,142
		2017	0	0,818	27,576	1,331
		2018	0	0,915	27,527	1,307
		2019	0	0,911	27,453	1,242
10	BRNA	2015	0	0,545	28,230	1,096
		2016	0	0,508	28,368	0,762
		2017	0	0,566	28,306	0,650
		2018	0	0,544	28,532	0,748
		2019	0	0,579	28,448	0,561
11	BRPT	2015	1	0,469	31,068	0,670
		2016	1	0,437	31,173	0,866
		2017	1	0,446	31,530	0,936
		2018	1	0,616	32,256	0,882
		2019	1	0,616	32,254	0,342
12	BTEK	2015	0	0,839	26,929	1,494
		2016	0	0,710	29,216	1,631
		2017	0	0,625	29,300	0,201
		2018	0	0,562	29,273	0,382
		2019	0	0,569	29,235	0,167
13	BTON	2015	0	0,186	25,933	0,426
		2016	0	0,190	25,901	0,339
		2017	0	0,157	25,935	0,472
		2018	0	0,157	26,105	0,663
		2019	0	0,201	26,164	0,651
14	CPRO	2015	1	0,782	29,838	1,258
		2016	1	0,975	29,622	0,906
		2017	1	1,254	29,578	0,828
		2018	1	0,897	29,514	1,023
		2019	1	0,945	29,423	1,057
15	CTBN	2015	1	0,419	28,789	0,627
		2016	1	0,263	28,394	0,294
		2017	1	0,295	28,336	0,407
		2018	1	0,366	28,444	0,667
		2019	0	0,411	28,524	0,967
16	ECII	2015	0	0,074	28,272	0,886
		2016	0	0,082	28,263	0,968
		2017	0	0,097	28,273	1,018
		2018	0	0,231	28,192	1,012
		2019	0	0,252	28,244	1,170
17	ERTX	2015	0	0,677	27,318	1,616
		2016	0	0,620	27,285	1,351
		2017	0	0,698	27,411	1,619

		2018	0	0,696	27,533	1,338
		2019	0	0,726	27,643	1,429
18	ESTI	2015	1	0,771	27,388	0,646
		2016	1	0,673	27,222	0,620
		2017	1	0,761	27,450	0,760
		2018	1	0,738	27,524	0,624
		2019	0	0,780	27,487	0,443
19	FASW	2015	1	0,815	29,350	0,888
		2016	1	0,776	29,576	0,997
		2017	1	0,709	29,781	0,888
		2018	1	0,713	29,869	0,976
		2019	1	0,553	30,026	0,727
20	FPNI	2015	1	0,588	28,799	1,948
		2016	1	0,522	28,643	1,804
		2017	1	0,500	28,586	2,147
		2018	1	0,476	28,673	2,452
		2019	1	0,401	28,485	1,640
21	GDST	2015	0	0,321	27,800	0,619
		2016	0	0,338	27,860	0,716
		2017	0	0,260	27,949	0,969
		2018	0	0,337	27,933	1,190
		2019	0	0,478	28,196	1,485
22	GDYR	2015	1	0,535	28,129	1,444
		2016	1	0,448	28,047	1,213
		2017	1	0,567	28,148	1,599
		2018	1	0,568	28,233	1,291
		2019	1	0,565	28,165	1,617
23	GJTL	2015	1	0,692	30,494	0,777
		2016	1	0,687	30,559	0,773
		2017	1	0,687	30,532	0,756
		2018	1	0,702	30,612	0,859
		2019	1	0,669	30,568	0,779
24	HERO	2015	1	0,331	29,685	1,817
		2016	1	0,271	29,644	1,800
		2017	1	0,294	29,628	1,810
		2018	1	0,379	29,448	1,854
		2019	1	0,357	29,432	1,981
25	IIKP	2015	0	0,039	26,528	0,117
		2016	0	0,232	26,623	0,347
		2017	0	0,080	26,472	0,076
		2018	0	0,080	26,421	0,127
		2019	0	0,065	26,675	0,127
26	IKAI	2015	0	0,823	26,690	0,245
		2016	0	1,233	26,303	0,134

		2017	0	1,459	26,161	0,082
		2018	0	0,406	27,921	-0,026
		2019	0	0,325	27,937	0,087
27	IMAS	2015	1	0,731	30,844	0,777
		2016	1	0,738	30,875	0,570
		2017	1	0,703	31,079	0,585
		2018	1	0,753	31,344	0,517
		2019	1	0,790	31,431	0,431
28	INAF	2015	0	0,614	28,059	1,422
		2016	0	0,583	27,954	0,850
		2017	0	0,656	28,056	1,252
		2018	0	0,656	27,997	0,965
		2019	0	0,635	27,956	0,895
29	INDR	2015	1	0,631	30,038	0,931
		2016	1	0,665	30,059	0,883
		2017	1	0,645	30,014	0,964
		2018	1	0,569	30,093	1,188
		2019	1	0,507	29,999	0,935
30	INDS	2015	0	0,249	28,569	0,786
		2016	0	0,165	28,538	0,637
		2017	0	0,119	28,521	0,828
		2018	0	0,116	28,540	0,991
		2019	0	0,092	28,673	0,888
31	INRU	2015	0	0,625	29,158	0,427
		2016	0	0,521	29,148	0,333
		2017	0	0,518	29,151	0,311
		2018	0	0,586	29,415	0,489
		2019	0	0,687	29,550	0,366
32	ISSP	2015	0	0,531	29,326	0,540
		2016	0	0,562	29,430	0,535
		2017	0	0,547	29,467	0,682
		2018	0	0,551	29,502	0,648
		2019	0	0,518	29,491	0,732
33	JECC	2015	0	0,729	27,937	1,448
		2016	0	0,704	28,093	1,635
		2017	0	0,716	28,287	1,436
		2018	0	0,663	28,374	3,395
		2019	0	0,539	28,374	1,327
34	KAEF	2015	0	0,400	28,865	1,587
		2016	0	0,508	29,160	1,703
		2017	0	0,578	29,439	1,289
		2018	0	0,634	30,058	1,443
		2019	0	0,596	30,541	0,704
35	KIAS	2015	0	0,146	28,385	0,383

		2016	1	0,183	28,251	0,097
		2017	1	0,193	28,201	0,478
		2018	1	0,205	28,164	0,539
		2019	1	0,265	27,839	0,687
36	KICI	2015	0	0,302	25,620	0,941
		2016	0	0,363	25,664	7,674
		2017	0	0,388	25,730	0,829
		2018	0	0,386	25,761	0,639
		2019	0	0,428	25,753	0,672
37	KRAS	2015	1	0,517	31,564	0,599
		2016	1	0,533	31,599	0,391
		2017	1	0,550	31,652	0,420
		2018	1	0,770	31,580	0,449
		2019	1	0,892	31,472	0,418
38	LION	2015	0	0,289	27,184	0,669
		2016	0	0,314	27,254	0,613
		2017	0	0,337	27,248	0,522
		2018	0	0,317	27,269	0,585
		2019	0	0,319	27,257	0,575
39	LMPI	2015	0	0,494	27,399	0,522
		2016	0	0,496	27,421	0,508
		2017	0	0,549	27,450	0,538
		2018	0	0,580	27,391	0,625
		2019	0	0,608	27,327	0,749
40	LMSH	2015	0	0,160	25,619	1,250
		2016	0	0,280	25,816	1,323
		2017	0	0,196	25,806	1,325
		2018	0	0,171	25,799	1,432
		2019	0	0,227	25,714	1,190
41	LPIN	2015	0	0,641	26,504	0,816
		2016	0	0,892	26,893	0,603
		2017	0	0,137	26,315	0,193
		2018	0	0,093	26,432	0,319
		2019	0	0,067	26,507	0,300
42	MAIN	2015	0	0,609	29,008	1,270
		2016	0	0,544	28,973	1,286
		2017	1	0,582	29,035	1,475
		2018	1	0,563	29,098	1,748
		2019	1	0,564	29,168	1,735
43	MASA	2015	1	0,423	29,742	0,517
		2016	1	0,444	29,734	0,408
		2017	1	0,488	29,818	0,535
		2018	1	0,615	29,719	0,551
		2019	1	0,567	29,486	0,520

44	MBTO	2015	0	0,331	27,199	1,133
		2016	0	0,379	27,288	1,053
		2017	0	0,471	27,383	1,026
		2018	0	0,536	27,197	0,836
		2019	0	0,602	27,105	0,919
45	MLIA	2015	1	0,844	29,595	0,830
		2016	1	0,791	29,675	0,822
		2017	1	0,662	29,277	0,718
		2018	1	0,574	29,292	1,080
		2019	1	0,560	29,382	0,741
46	MRAT	2015	0	0,242	26,932	0,804
		2016	0	0,236	26,903	0,680
		2017	0	0,263	26,933	0,720
		2018	0	0,281	26,961	0,609
		2019	0	0,308	27,001	0,570
47	MYTX	2015	0	1,292	28,296	0,962
		2016	0	1,571	28,113	0,723
		2017	0	0,899	28,872	1,346
		2018	0	0,936	28,952	0,616
		2019	0	0,915	28,936	0,524
48	NIKL	2015	1	0,671	28,081	1,395
		2016	1	0,666	28,106	1,201
		2017	1	0,670	28,167	1,186
		2018	1	0,709	28,392	1,379
		2019	1	0,699	28,396	1,051
49	POLY	2015	0	4,980	28,796	1,623
		2016	0	5,056	28,764	1,578
		2017	0	5,073	28,774	1,734
		2018	0	4,901	28,869	2,165
		2019	0	4,889	28,864	1,688
50	PRAS	2015	0	0,529	28,060	0,390
		2016	0	0,566	28,099	0,164
		2017	0	0,561	28,064	0,208
		2018	0	0,579	28,123	0,340
		2019	0	0,610	28,136	0,224
51	PSDN	2015	1	0,477	27,154	1,523
		2016	1	0,571	27,206	1,510
		2017	1	0,567	27,261	2,082
		2018	1	0,652	27,271	1,904
		2019	1	0,770	27,361	1,739
52	PTSN	2015	0	0,227	27,499	1,554
		2016	0	0,238	27,511	1,378
		2017	0	0,248	27,537	1,390
		2018	0	0,758	29,058	7,668

		2019	0	0,562	28,457	0,875
53	RMBA	2015	1	1,249	30,170	1,451
		2016	1	0,299	30,232	1,427
		2017	1	0,366	30,276	6,247
		2018	1	0,438	30,331	-4,404
		2019	0	0,506	30,464	1,350
54	SIPD	2015	0	0,673	28,441	0,866
		2016	0	0,555	28,574	1,077
		2017	0	0,647	28,437	1,000
		2018	0	0,616	28,414	1,434
		2019	0	0,629	28,536	1,908
55	SMBR	2015	0	0,098	28,815	0,564
		2016	0	0,286	29,106	0,391
		2017	0	0,326	29,252	0,361
		2018	0	0,373	29,343	0,375
		2019	0	0,375	29,349	0,346
56	SMCB	2015	1	0,512	30,483	0,566
		2016	1	0,592	30,615	0,554
		2017	1	0,633	30,608	0,471
		2018	1	0,656	30,558	0,553
		2019	1	0,643	30,605	0,534
57	SPMA	2015	0	0,636	28,413	0,794
		2016	0	0,485	28,401	0,903
		2017	0	0,450	28,408	0,986
		2018	0	0,450	28,456	1,101
		2019	0	0,419	28,495	1,062
58	SSTM	2015	0	0,662	27,305	0,688
		2016	0	0,634	27,200	0,629
		2017	0	0,649	27,130	0,627
		2018	0	0,617	27,055	0,692
		2019	0	0,611	26,967	0,657
59	STAR	2015	0	0,328	27,315	0,306
		2016	0	0,290	27,260	0,180
		2017	0	0,202	27,144	0,215
		2018	0	0,374	26,531	0,240
		2019	0	0,155	27,086	0,525
60	SULI	2015	1	1,254	27,790	2,061
		2016	1	1,169	27,838	0,807
		2017	1	0,989	27,743	0,670
		2018	1	0,951	28,013	1,206
		2019	0	0,957	28,029	0,720
61	TFCO	2015	1	0,094	29,100	0,693
		2016	1	0,095	29,097	0,630
		2017	1	0,110	29,132	0,736

		2018	1	0,085	29,170	0,772
		2019	1	0,076	29,122	0,642
62	TIRT	2015	0	0,881	27,361	1,146
		2016	0	0,845	27,428	1,092
		2017	0	0,856	27,479	1,005
		2018	0	0,905	27,551	1,289
		2019	0	0,960	27,521	0,812
63	TKIM	2015	0	0,644	31,243	0,570
		2016	0	0,624	31,142	0,401
		2017	0	0,614	31,185	0,411
		2018	0	0,583	31,391	0,484
		2019	0	0,548	31,401	0,361
64	UNIC	2015	1	0,367	28,752	1,409
		2016	1	0,290	28,746	1,151
		2017	1	0,292	28,740	1,452
		2018	1	0,296	28,862	1,743
		2019	1	0,198	28,767	1,297
65	YPAS	2015	0	0,461	26,355	0,911
		2016	0	0,493	26,359	1,105
		2017	0	0,581	26,439	1,173
		2018	0	0,643	26,525	1,299
		2019	0	0,564	26,352	1,235

Lampiran 9

Hasil Pengolahan Data SPSS

Hasil Uji Statistik Deskriptif

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Leverage	291	.04	1.00	.5124	.22644
Size	291	25.62	31.65	28.4629	1.35990
REM	291	.27	1.47	.9063	.24651
Valid N (listwise)	291				

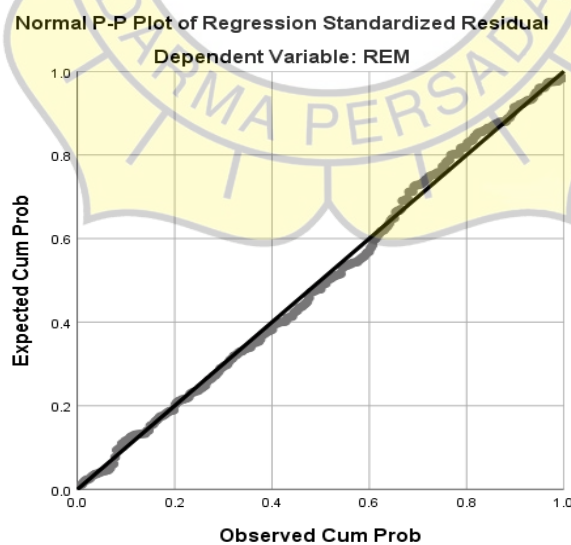
Sumber: *Output IBM SPSS 25, data diolah (2020)*

Kualitas Audit

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	178	61.2	61.2	61.2
	1	113	38.8	38.8	100.0
Total		291	100.0	100.0	

Sumber: *Output IBM SPSS 25, data diolah (2020)*

Hasil Uji Normalitas menggunakan *Normal Probability Plot*



Sumber: *Output IBM SPSS 25, data diolah (2020)*

Hasil Uji Normalitas Metode *Kolmogorof-Smirnof*

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		291
Normal Parameters ^{a,b}	Mean	.0000000
	Std. Deviation	.23660552
Most Extreme Differences	Absolute	.035
	Positive	.033
	Negative	-.035
Test Statistic		.035
Asymp. Sig. (2-tailed)		.200 ^c

a. Test distribution is Normal.

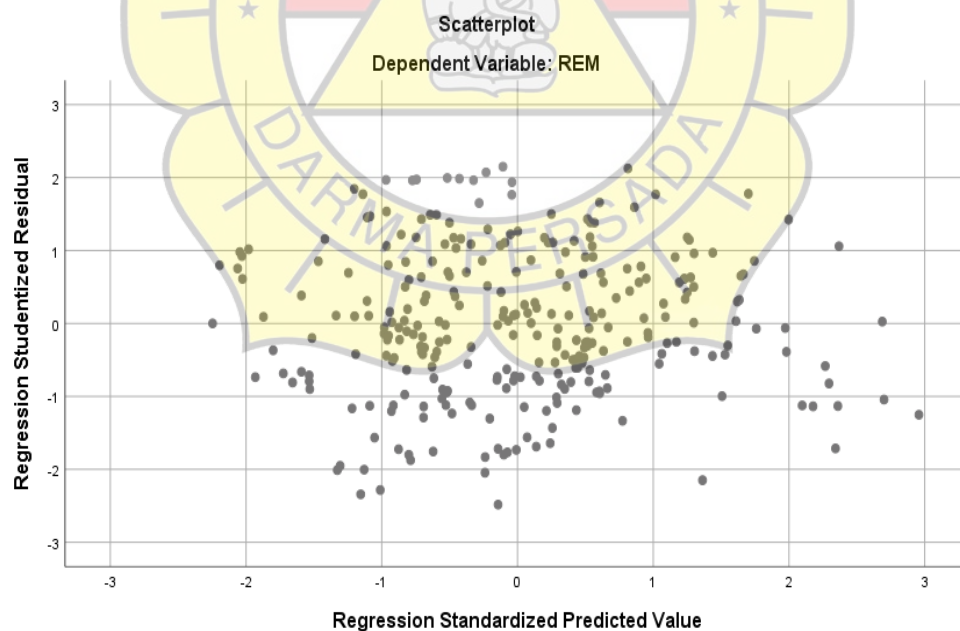
b. Calculated from data.

c. Lilliefors Significance Correction.

d. This is a lower bound of the true significance.

Sumber: *Output IBM SPSS 25, data diolah (2020)*

Hasil Uji Heteroskedastisitas



Sumber: *Output IBM SPSS 25, data diolah (2020)*

Hasil Uji Multikolinearitas

		Coefficients ^a					Collinearity Statistics	
		Unstandardized Coefficients		Standardized Coefficients				
Model		B	Std. Error	Beta	t	Sig.	Tolerance	VIF
1	(Constant)	1.710	.333		5.128	.000		
	Kualitas Audit	.106	.033	.210	3.225	.001	.757	1.321
	Leverage	.244	.064	.224	3.831	.000	.935	1.070
	Size	-.034	.012	-.188	-2.808	.005	.715	1.398

a. Dependent Variable: REM

Sumber: *Output IBM SPSS 25, data diolah (2020)*

Hasil Uji Autokorelasi

Model Summary ^b					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.260 ^a	.068	.058	.17543	2.041

a. Predictors: (Constant), Size, Leverage, Kualitas Audit

b. Dependent Variable: REM

Sumber: *Output IBM SPSS 25, data diolah (2020)*

Hasil Uji Regresi Linear Berganda

		Coefficients ^a				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	1.710	.333		5.128	.000
	Kualitas Audit	.106	.033	.210	3.225	.001
	Leverage	.244	.064	.224	3.831	.000
	Size	-.034	.012	-.188	-2.808	.005

a. Dependent Variable: REM

Sumber: *Output IBM SPSS 25, data diolah (2020)*

Hasil Uji Statistik t

Model		t	Sig.
1	(Constant)	5.128	.000
	Kualitas Audit	3.225	.001
	Leverage	3.831	.000
	Size	-2.808	.005

Sumber: *Output IBM SPSS 25, data diolah (2020)*

Hasil Uji Koefesien Determinasi

Model Summary ^b				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.260 ^a	.068	.058	.17543

a. Predictors: (Constant), Size, Leverage, Kualitas Audit

b. Dependent Variable: REM

Sumber: *Output IBM SPSS 25, data diolah (2020)*

Lampiran 10

LEMBAR KONSULTASI
BIMBINGAN SKRIPSI MAHASISWA

Nama : Annisa Rachman
 No. Induk Mahasiswa : 2015420096
 Dosen Pembimbing : Ahmad Basid Hasibuan, S.E., M.Si, CSRS
 Mulai Bimbingan : 8 November 2019

Hari/ Tanggal	Pokok Bahasan	Paraf Pembimbing
13 November 2019	Mencari jurnal tentang: - <i>Determinant of Audit Quality</i> - <i>Determinant of Leverage</i> - <i>Determinant of Company Size</i> - <i>Determinant of Real Earnings Management</i>	
23 November 2019	Revisi Bab I - Judul tidak sesuai dengan latar belakang - Penulisan nama dan tahun - Research GAP ketertarikan dengan <i>Real Earnings Management</i> - Identifikasi masalah, rumusan masalah dan tujuan penelitian Revisi Bab II - Landasan Teori - Penelitian Terdahulu - Kerangka Pemikiran	
28 November 2019	Bab I Latar Belakang - Harus ada masalah terkait dengan judul yang diteliti - Fenomena yang relevan saat ini - GAP penelitian - Referensi 5 tahun terakhir - Sumbernya harus jelas GAP penelitiannya cari dan tampilkan hubungan kualitas audit dengan <i>real earnings management</i> siapa saja yang meneliti hasilnya positif dan siapa saja yang negatif. Tampilkan hubungan <i>leverage</i> dengan REM, ukuran perusahaan dengan REM, 5 penelitian yang positif dan yang negatif 3 sampai 5 penelitian.	
7 November 2019	- Perubahan tahun judul - Revisi referensi terbaru - Bab III cari metodologi penelitian terbaru	

14 Desember 2019	- Teknik penulisan tiap lembar - Buat daftar isi dan kata pengantar - Referensi bab I tambahkan dengan latar belakang tahun yang lebih update - Definisi variabel diperbanyak minimal 5 - Berikan pendapat sendiri dari pengertian variabel - Hubungan variabel ambil dari penelitian sebelumnya - Mengurutkan jurnal sesuai tahun terbaru	
29 Desember 2019	- Mengganti tahun penelitian menjadi 2015-2019 - Memberikan Laporan Keuangan secara konsisten - Untuk perusahaan yang melaporkan dengan mata uang asing harus dikonversikan ke dalam rupiah menggunakan nilai kurs Bank Indonesia - Menambahkan teknik sampling serta kriteria sampel penelitian - Memperbaiki teknik penulisan dan daftar pustaka	
2 November 2020	- Revisi bab 4 - Menentukan kriteria sampel penelitian - Mengganti populasi dari seluruh perusahaan menjadi perusahaan manufaktur yang terdaftar di BEI	
15 Januari 2021	- Membuat perhitungan data sampel perusahaan sesuai dengan kriteria sampel penelitian - Membuat perhitungan data setiap variabel dengan menggunakan kurs Bank Indonesia - Membuat data Kantor Akuntan Publik per tahun - Melengkapi perhitungan data serta revisi bab 5	

Jakarta, 16 Februari 2021
Pembimbing



(Ahmad Basid Hasibuan, SE, M.Si, CSRS)

Lampiran 11

DAFTAR RIWAYAT HIDUP**DATA PRIBADI**

Nama : Annisa Rachman
 Tempat Tanggal Lahir : Jakarta, 22 Juli 1995
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RIWAYAT PENDIDIKAN

2000-2006 : SDNP Komp. IKIP Jakarta
 2006-2009 : SMP Assyairiyah Attahiriyyah
 2009-2012 : SMK IPTEK Jakarta

SEMINAR YANG PERNAH DIKUTI

- Seminar “Pengawasan OJK Terhadap Sektor Perasuransian dalam Menyokong MEA 2016”
- Seminar Akuntansi “Peran Akuntansi Indonesia dalam Menghadapi Era Pasar Bebas ASEAN”
- Seminar Audit Forensik “Peran Audit Forensik dalam Mengungkapkan Kecurangan Laporan Keuangan”
- Kuliah Umum dengan Tema “Brave to be Success with Creative Bussiness”