

LAMPIRAN-LAMPIRAN



Lampiran 1. Daftar Sampel Penelitian

NO	NAMA PERUSAHAAN	KODE SAHAM
1	PT. Adaro Energy Tbk	ADRO
2	PT. Atlas Resources Tbk	ARII
3	PT. Baramulti Suksessarana Tbk	BSSR
4	PT. Bumi Resources Tbk	BUMI
5	PT. Bayan Resources Tbk	BYAN
6	PT. Dian Swastatika Sentosa Tbk	DSSA
7	PT. Golden Energy Mines Tbk	GEMS
8	PT. Garda Tujuh Buana Tbk	GTBO
9	PT. Harum Energy Tbk	HRUM
10	PT. Indika Energy Tbk	INDY
11	PT. Indo Tambangraya Megah Tbk	ITMG
12	PT. Resource Alam Indonesia Tbk	KKGI
13	PT. Mitrabara Adiperdana Tbk	MBAP
14	PT. Bukit Asam Tbk	PTBA
15	PT. Golden Eagle Energy Tbk	SMMT
16	PT. TBS Energi Utama Tbk	TOBA
17	PT. Pelayaran Nasional Bina Buana Raya Tbk	BBRM
18	PT. Batulicin Nusantara Maritim Tbk	BESS
19	PT. Eksploitasi Energi Indonesia Tbk	CNKO
20	PT. Mitrabahtera Segara Sejati Tbk	MBSS
21	PT. Pelita Samudera Shipping Tbk	PSSI
22	PT. Indo Straits Tbk	PTIS
23	PT. Transcoal Pacific Tbk	TCPI
24	PT. Dana Brata Luhur Tbk	TEBE
25	PT. Trans Power Marine Tbk	TPMA

Lampiran 2. Perhitungan X1 Metode Springate S-score

Nama Perusahaan	Tahun	ASET LANCAR	LIABILITAS LANCAR	MODAL KERJA	TOTAL ASSET	X1
ADRO	2019	Rp 29.475.638.280	Rp 17.219.435.970	Rp 12.256.202.310	Rp 100.822.956.850	0,122
	2020	Rp 24.545.698.325	Rp 16.229.283.525	Rp 8.316.415.800	Rp 90.458.698.050	0,092
	2021	Rp 40.497.305.508	Rp 19.428.071.102	Rp 21.069.234.406	Rp 108.257.989.784	0,195
	2022	Rp 83.678.049.879	Rp 38.501.811.272	Rp 45.176.238.607	Rp 169.616.471.417	0,266
ARII	2023	Rp 66.320.140.728	Rp 32.916.767.344	Rp 33.403.473.384	Rp 161.447.312.776	0,207
	2019	Rp 875.849.150	Rp 3.637.564.480	Rp 2.761.715.330	Rp 5.084.409.440	-0,543
	2020	Rp 844.050.375	Rp 4.055.368.275	Rp 3.211.317.900	Rp 5.114.368.350	-0,628
	2021	Rp 1.072.757.689	Rp 2.416.069.887	Rp 1.343.312.198	Rp 5.271.967.430	-0,255
BSSR	2022	Rp 2.278.965.701	Rp 3.159.083.689	Rp 890.117.988	Rp 7.058.892.975	-0,125
	2023	Rp 3.275.992.496	Rp 4.698.411.400	Rp 1.422.418.904	Rp 8.135.794.000	-0,175
	2019	Rp 1.083.196.555.980	Rp 897.777.188.440	Rp 185.419.367.540	Rp 3.502.004.014.520	0,053
	2020	Rp 1.360.346.768.550	Rp 862.603.281.225	Rp 497.743.487.325	Rp 3.732.897.911.400	0,133
BUMI	2021	Rp 3.878.086.495.298	Rp 2.421.260.478.323	Rp 1.456.826.016.975	Rp 6.211.543.780.834	0,235
	2022	Rp 3.354.552.359.969	Rp 2.693.918.396.544	Rp 660.633.963.425	Rp 6.368.399.213.925	0,104
	2023	Rp 3.265.833.937.808	Rp 2.367.719.252.296	Rp 898.114.685.512	Rp 6.296.735.697.368	0,143
	2019	Rp 6.342.394.444.980	Rp 16.384.673.218.650	Rp 10.042.278.773.670	Rp 50.458.925.350.680	-0,199
BYAN	2020	Rp 5.632.814.793.375	Rp 18.408.571.186.950	Rp 12.775.756.393.575	Rp 48.599.700.885.225	-0,263
	2021	Rp 11.066.792.114.720	Rp 41.054.635.667.890	Rp 29.987.843.553.170	Rp 60.269.220.783.934	-0,498
	2022	Rp 12.155.845.691.941	Rp 14.515.965.089.250	Rp 2.360.119.397.309	Rp 70.601.466.869.339	-0,033
	2023	Rp 10.863.912.678.032	Rp 13.075.361.418.264	Rp 2.211.448.740.232	Rp 64.788.734.033.856	-0,034
DSSA	2019	Rp 7.258.465.767.520	Rp 8.115.691.049.510	Rp 857.225.281.990	Rp 17.854.220.518.310	-0,048
	2020	Rp 10.904.473.181.700	Rp 3.355.158.145.500	Rp 7.549.315.036.200	Rp 22.959.602.186.850	0,329
	2021	Rp 20.239.617.466.241	Rp 6.463.597.304.200	Rp 13.776.020.162.041	Rp 34.726.639.253.379	0,397
	2022	Rp 37.761.057.941.247	Rp 28.811.650.951.875	Rp 8.949.406.989.372	Rp 62.066.013.405.315	0,144
GEM5	2023	Rp 29.308.808.476.840	Rp 20.635.829.327.056	Rp 8.672.979.149.784	Rp 53.097.634.283.456	0,163
	2019	Rp 12.088.006.317.970	Rp 9.323.407.146.350	Rp 5.954.054.703.080	Rp 51.954.054.703.080	0,095
	2020	Rp 15.945.688.382.400	Rp 10.269.852.506.550	Rp 5.675.835.875.850	Rp 41.110.769.066.850	0,138
	2021	Rp 16.344.465.518.054	Rp 9.603.423.903.935	Rp 6.741.041.614.119	Rp 42.950.727.299.224	0,157
GTBO	2022	Rp 35.661.209.244.611	Rp 26.230.471.897.300	Rp 9.430.737.347.311	Rp 101.168.891.290.058	0,093
	2023	Rp 21.316.315.323.112	Rp 12.728.480.545.000	Rp 8.587.834.778.112	Rp 47.223.416.830.072	0,182
	2019	Rp 5.137.660.635.250	Rp 3.883.627.449.900	Rp 1.254.033.185.350	Rp 10.905.626.952.990	0,115
	2020	Rp 5.781.369.204.450	Rp 4.686.582.952.800	Rp 1.094.786.251.650	Rp 11.534.449.318.875	0,095
HRUM	2021	Rp 6.195.033.493.928	Rp 6.067.486.767.827	Rp 127.546.724.101	Rp 11.829.385.364.053	0,011
	2022	Rp 12.394.274.270.408	Rp 7.444.837.391.924	Rp 3.949.436.878.484	Rp 17.761.664.513.724	0,223
	2023	Rp 12.979.873.974.296	Rp 9.486.661.174.096	Rp 3.493.212.800.200	Rp 20.226.443.248.920	0,173
	2019	Rp 24.195.942.210	Rp 52.941.242.860	Rp 28.745.300.650	Rp 769.057.217.280	-0,037
INDY	2020	Rp 23.400.073.825	Rp 50.231.706.525	Rp 26.831.630.700	Rp 786.739.673.425	-0,034
	2021	Rp 42.686.726.599	Rp 77.569.280.490	Rp 34.882.552.891	Rp 814.542.013.540	-0,043
	2022	Rp 154.673.704.634	Rp 76.446.603.565	Rp 78.227.101.069	Rp 971.207.179.406	0,081
	2023	Rp 298.098.236.208	Rp 97.363.524.920	Rp 200.734.711.288	Rp 1.062.644.442.904	0,189
ITMG	2019	Rp 4.028.806.972.850	Rp 436.849.890.840	Rp 3.591.957.082.010	Rp 6.244.617.297.380	0,575
	2020	Rp 3.536.036.276.850	Rp 350.995.509.900	Rp 3.185.040.766.950	Rp 7.069.103.911.800	0,451
	2021	Rp 3.533.172.859.814	Rp 1.149.760.532.997	Rp 2.383.412.326.817	Rp 12.480.489.037.558	0,191
	2022	Rp 8.168.952.736.141	Rp 3.550.773.051.393	Rp 4.618.179.684.748	Rp 20.116.894.920.736	0,230
KKGI	2023	Rp 6.664.311.564.008	Rp 3.959.510.048.456	Rp 2.704.801.515.552	Rp 25.175.980.471.872	0,107
	2019	Rp 19.997.033.038.610	Rp 9.938.413.569.920	Rp 10.058.019.468.700	Rp 50.517.798.018.950	0,199
	2020	Rp 19.761.576.396.975	Rp 10.031.843.894.625	Rp 9.729.732.502.350	Rp 49.523.237.997.975	0,196
	2021	Rp 29.850.039.715.378	Rp 16.206.215.032.024	Rp 13.643.824.638.354	Rp 52.673.686.754.169	0,259
MBAP	2022	Rp 31.506.634.856.242	Rp 18.545.693.856.939	Rp 12.960.940.999.303	Rp 56.335.201.092.702	0,229
	2023	Rp 22.878.923.785.432	Rp 15.146.063.635.512	Rp 7.732.860.149.932	Rp 47.991.586.444.242	0,161
	2019	Rp 6.557.364.330	Rp 3.259.033.360	Rp 3.298.330.970	Rp 16.890.302.770	0,195
	2020	Rp 5.952.550.275	Rp 2.938.477.500	Rp 3.014.072.775	Rp 16.423.566.075	0,184
MBSS	2021	Rp 14.098.114.456	Rp 5.204.517.867	Rp 8.893.596.589	Rp 23.775.564.291	0,374
	2022	Rp 30.023.321.395	Rp 9.212.278.103	Rp 20.811.043.450	Rp 41.532.621.940	0,501
	2023	Rp 19.730.506.752	Rp 4.536.219.664	Rp 15.194.287.088	Rp 33.727.849.352	0,450
	2019	Rp 547.583.067.900	Rp 251.925.899.500	Rp 295.657.168.400	Rp 1.765.172.881.890	0,167
PTBA	2020	Rp 468.982.780.875	Rp 153.715.174.200	Rp 315.267.606.675	Rp 1.540.656.411.525	0,205
	2021	Rp 716.475.741.450	Rp 296.207.374.276	Rp 420.268.367.174	Rp 1.886.109.338.583	0,223
	2022	Rp 1.465.878.589.439	Rp 567.351.540.268	Rp 898.527.049.171	Rp 2.677.175.358.390	0,336
	2023	Rp 3.795.367.647.456	Rp 754.054.801.648	Rp 1.041.312.845.808	Rp 3.091.471.608.960	0,337
TOBA	2019	Rp 1.845.307.302.520	Rp 152.070.000.750	Rp 1.333.237.301.770	Rp 2.689.606.227.330	0,496
	2020	Rp 1.781.090.904.600	Rp 475.712.234.150	Rp 1.305.373.680.450	Rp 2.579.468.730.850	0,506
	2021	Rp 2.990.042.324.046	Rp 751.699.210.289	Rp 2.238.343.113.757	Rp 3.677.412.944.091	0,609
	2022	Rp 4.127.128.858.751	Rp 770.295.566.706	Rp 3.356.833.292.045	Rp 4.822.302.985.601	0,696
SMMT	2023	Rp 2.913.692.292.880	Rp 778.463.941.072	Rp 2.135.228.351.808	Rp 3.537.982.020.400	0,604
	2019	Rp 11.679.884	Rp 4.691.251	Rp 6.988.633	Rp 15.698.052	0,268
	2020	Rp 8.364.356	Rp 3.872.457	Rp 4.491.899	Rp 24.056.755	0,187
	2021	Rp 18.211.500	Rp 7.500.647	Rp 10.710.853	Rp 36.123.703	0,297
CNKO	2022	Rp 24.432.148	Rp 10.701.780	Rp 13.730.368	Rp 45.359.207	0,303
	2023	Rp 15.148.356	Rp 9.968.101	Rp 5.180.255	Rp 38.765.389	0,134
	2019	Rp 85.378.192.680	Rp 139.763.286.351	Rp 54.385.093.671	Rp 871.513.339.763	-0,062
	2020	Rp 93.577.946.345	Rp 160.127.033.037	Rp 66.549.086.692	Rp 881.768.218.140	-0,075
BBRM	2021	Rp 237.930.057.104	Rp 111.872.346.585	Rp 126.057.710.519	Rp 1.051.640.434.770	0,120
	2022	Rp 174.801.416.368	Rp 159.985.988.549	Rp 11.815.427.819	Rp 1.482.852.785.319	0,040
	2023	Rp 188.675.899.475	Rp 175.199.888.029	Rp 1.735.011.446	Rp 1.007.863.610.940	0,013
	2019	Rp 1.181.005.555.180	Rp 1.284.258.132.520	Rp 103.252.577.340	Rp 8.865.927.170.320	-0,012
PSSI	2020	Rp 997.344.055.575	Rp 1.362.516.252.300	Rp 365.172.196.725	Rp 10.941.282.580.725	-0,033
	2021	Rp 2.982.487.915.914	Rp 1.713.617.304.949	Rp 1.268.870.610.965	Rp 12.244.255.782.796	0,104
	2022	Rp 4.110.125.960.208	Rp 2.075.010.548.806	Rp 2.035.115.411.402	Rp 14.147.353.261.167	0,144
	2023	Rp 3.667.161.425.272	Rp 2.287.136.721.680	Rp 1.380.024.703.592	Rp 14.611.866.414.848	0,094
BESS	2019	Rp 105.308.276.810	Rp 113.309.803.860	Rp 8.001.527.050	Rp 1.082.659.311.690	-0,007
	2020	Rp 113.108.193.450	Rp 319.092.716.250	Rp 205.984.522.800	Rp 527.499.349.650	-0,390
	2021	Rp 128.834.886.614	Rp 265.308.425.536	Rp 136.473.538.922	Rp 480.101.937.038	-0,284
	2022	Rp 143.894.917.820	Rp 78.173.599.938	Rp 65.721.317.882	Rp 534.995.169.994	0,123
PTIS	2023	Rp 158.080.288.800	Rp 63.232.331.344	Rp 94.847.957.456	Rp 536.265.523.720	0,177
	2019	Rp 21.327.461.587	Rp 92.129.728.055	Rp 70.802.266.468	Rp 568.979.239.113	-0,124
	2020	Rp 99.934.687.098	Rp 105.590.771.015	Rp 5.656.083.917	Rp 620.407.533.334	-0,009
	2021	Rp 137.475.358.287	Rp 110.883.887.168	Rp 26.591.471.119	Rp 667.408.015.354	0,040
TCPI	2022	Rp 213.870.565.668	Rp 181.429.256.697	Rp 32.441.308.971	Rp 772.666.449.902	0,042
	2023	Rp 168.832.887.239	Rp 74.520.364.386	Rp 94.312.522.853	Rp 689.803.373.589	0,137
	2019	Rp 807.439.077	Rp 1.793.934.043	Rp 986.494.966	Rp 1.635.154.338	-0,603
	2020	Rp 421.671.344	Rp 1.777.594.073	Rp 1.355.922.729	Rp 1.110.213.240	-1,221
MBSS	2021	Rp 557.796.856	Rp 1.717.108.630	Rp 1.159.311.774	Rp 1.206.842.636	-0,961
	2022	Rp 357.342.129	Rp 1.567.490.086	Rp 1.210.147.957	Rp 905.897.550	-1,336
	2023	Rp 478.128.660	Rp 1.727.957.485	Rp 1.249.828.825	Rp 976.451.944	-1,280
	2019	Rp 810.119.336.070	Rp 218.241.812.690	Rp 591.877.523.380	Rp 3.047.351.957.100	0,194
TEBE	2020	Rp 762.311.895.975	Rp 361.521.822.375	Rp 400.790.073.600	Rp 2.762.127.175.500	0,145
	2021	Rp 634.271.818.415	Rp 85.486.649.175	Rp 548.785.169.240	Rp 2.534.732.103.865	0,217
	2022	Rp 1.760.628.432.988	Rp 249.548.844.348	Rp 1.511.079.58		

Lampiran 3.Perhitungan X2 Metode Springate S-score

Nama Perusahaan	Tahun	Lab a Sebelum Bunga dan Pajak	Total Aset	X2
ADRO	2019	Rp 9.207.668.910	Rp 100.822.956.850	0,091
	2020	Rp 3.149.188.875	Rp 90.458.698.050	0,035
	2021	Rp 21.207.315.519	Rp 108.796.662.240	0,195
	2022	Rp 70.415.401.089	Rp 170.457.491.363	0,413
ARII	2023	Rp 35.368.666.728	Rp 162.253.711.523	0,218
	2019	-Rp 79.573.120	Rp 5.084.409.440	-0,016
	2020	-Rp 253.987.650	Rp 5.114.368.350	-0,050
	2021	Rp 76.838.565	Rp 5.298.199.800	0,015
BSSR	2022	Rp 563.657.461	Rp 7.093.893.525	0,079
	2023	Rp 49.500.776	Rp 8.176.430.750	0,006
	2019	Rp 577.186.322.130	Rp 3.502.004.014.520	0,165
	2020	Rp 578.893.009.275	Rp 3.732.897.911.400	0,155
	2021	Rp 3.769.990.487.202	Rp 6.242.451.315.240	0,604
	2022	Rp 4.857.436.663.925	Rp 6.399.976.045.575	0,759
	2023	Rp 3.400.614.730.864	Rp 6.328.186.699.489	0,537
BUMI	2019	-Rp 265.654.875.090	Rp 50.458.925.350.680	-0,005
	2020	-Rp 4.570.578.764.325	Rp 48.599.700.885.225	-0,094
	2021	Rp 4.153.159.097.651	Rp 60.569.109.681.240	0,069
	2022	Rp 10.919.593.547.748	Rp 70.951.534.532.921	0,154
BYAN	2023	Rp 1.269.510.899.024	Rp 65.112.341.488.488	0,019
	2019	Rp 4.353.406.418.900	Rp 17.854.220.518.310	0,244
	2020	Rp 6.047.560.296.225	Rp 22.959.602.186.850	0,263
	2021	Rp 23.223.849.710.329	Rp 34.899.432.818.940	0,665
DSSA	2022	Rp 46.332.672.569.591	Rp 62.373.759.196.785	0,743
	2023	Rp 25.173.842.334.336	Rp 53.362.846.909.288	0,472
	2019	Rp 1.857.896.046.710	Rp 51.954.053.704.080	0,036
	2020	-Rp 76.805.919.225	Rp 41.110.769.066.850	-0,002
	2021	Rp 5.413.302.317.339	Rp 43.164.442.460.640	0,125
	2022	Rp 25.175.077.738.703	Rp 101.670.523.323.662	0,248
	2023	Rp 18.207.370.279.376	Rp 47.459.288.852.381	0,384
GEMS	2019	Rp 1.401.752.035.200	Rp 10.905.626.952.990	0,129
	2020	Rp 1.802.105.271.225	Rp 11.534.449.318.875	0,156
	2021	Rp 6.575.736.704.557	Rp 11.888.246.276.580	0,553
	2022	Rp 14.137.334.926.624	Rp 17.849.733.284.436	0,792
GTBO	2023	Rp 10.528.834.710.600	Rp 20.327.470.501.785	0,518
	2019	-Rp 56.374.845.340	Rp 769.057.217.280	-0,073
	2020	-Rp 17.485.620.200	Rp 786.739.673.475	-0,022
	2021	-Rp 3.054.750.327	Rp 818.594.024.400	-0,004
HRUM	2022	Rp 120.308.564.315	Rp 976.022.776.634	0,123
	2023	Rp 84.566.117.512	Rp 1.067.952.150.617	0,079
	2019	Rp 358.021.693.150	Rp 6.244.617.297.380	0,057
	2020	Rp 909.629.552.475	Rp 7.069.103.911.800	0,129
INDY	2021	Rp 1.820.294.432.223	Rp 12.142.589.775.880	0,149
	2022	Rp 7.512.294.908.814	Rp 20.216.641.777.504	0,372
	2023	Rp 4.054.414.983.448	Rp 25.301.729.725.656	0,160
	2019	Rp 756.261.745.030	Rp 50.517.798.018.050	0,015
ITMG	2020	-Rp 1.405.836.611.550	Rp 49.523.237.997.975	-0,028
	2021	Rp 7.164.571.674.927	Rp 52.935.781.628.340	0,135
	2022	Rp 15.893.614.933.668	Rp 56.815.523.111.978	0,280
	2023	Rp 3.675.646.653.744	Rp 48.231.295.328.270	0,076
	2019	Rp 2.597.134.760	Rp 16.890.302.770	0,154
	2020	Rp 1.028.438.775	Rp 16.423.566.075	0,063
	2021	Rp 8.862.318.941	Rp 23.893.867.260	0,371
	2022	Rp 24.301.122.952	Rp 41.738.558.193	0,582
KKGI	2023	Rp 9.929.630.592	Rp 33.896.313.571	0,293
	2019	Rp 112.172.254.700	Rp 1.765.172.881.890	0,064
	2020	-Rp 132.601.766.850	Rp 1.540.656.411.525	-0,086
	2021	Rp 484.548.385.742	Rp 1.895.494.282.380	0,256
MBAP	2022	Rp 913.323.250.227	Rp 2.690.449.764.210	0,339
	2023	Rp 603.124.977.792	Rp 3.107.912.322.080	0,194
	2019	Rp 676.688.136.080	Rp 2.689.606.227.330	0,252
	2020	Rp 529.770.666.600	Rp 2.579.468.720.850	0,205
PTBA	2021	Rp 1.839.228.567.621	Rp 3.695.711.095.260	0,498
	2022	Rp 3.628.435.787.106	Rp 4.846.213.711.739	0,749
	2023	Rp 473.799.074.673	Rp 3.555.653.570.450	0,133
	2019	Rp 5.455.162	Rp 26.098.052	0,209
	2020	Rp 3.231.685	Rp 24.056.755	0,134
	2021	Rp 10.358.675	Rp 36.123.703	0,287
	2022	Rp 16.202.314	Rp 45.359.207	0,357
	2023	Rp 8.154.313	Rp 38.765.189	0,210
SMMT	2019	Rp 6.234.017.115	Rp 871.513.339.763	0,007
	2020	-Rp 23.386.617.883	Rp 881.768.218.140	-0,027
	2021	Rp 258.001.970.758	Rp 1.051.640.434.770	0,245
	2022	Rp 463.165.596.772	Rp 1.182.852.785.319	0,392
TOBA	2023	Rp 280.054.340.392	Rp 1.007.863.610.940	0,278
	2019	Rp 878.282.276.960	Rp 8.865.927.170.320	0,099
	2020	Rp 536.525.301.950	Rp 10.041.282.588.725	0,055
	2021	Rp 1.233.872.292.677	Rp 12.305.181.016.560	0,100
BBRM	2022	Rp 1.804.119.834.302	Rp 14.217.500.966.613	0,127
	2023	Rp 506.440.466.008	Rp 14.684.849.919.904	0,034
	2019	-Rp 60.359.787.840	Rp 1.082.659.311.690	-0,056
	2020	-Rp 156.447.121.950	Rp 527.499.349.650	-0,297
BESS	2021	Rp 101.753.275.359	Rp 482.490.338.680	0,202
	2022	Rp 12.668.347.341	Rp 537.647.869.966	0,024
	2023	Rp 64.271.631.816	Rp 538.944.068.435	0,119
	2019	Rp 13.038.181.894	Rp 568.979.239.113	0,023
	2020	Rp 54.741.228.792	Rp 620.407.533.334	0,088
	2021	Rp 115.531.892.914	Rp 667.408.015.354	0,173
	2022	Rp 58.751.082.752	Rp 772.666.449.902	0,076
	2023	Rp 81.094.051.677	Rp 689.803.373.589	0,118
CNKO	2019	Rp 116.487.959	Rp 1.635.154.338	0,071
	2020	-Rp 266.991.306	Rp 1.110.213.240	-0,240
	2021	Rp 73.152.107	Rp 1.206.842.636	0,061
	2022	-Rp 42.058.641	Rp 905.892.550	-0,046
MBSS	2023	-Rp 34.046.746	Rp 976.451.944	-0,035
	2019	Rp 25.260.106.960	Rp 3.047.351.957.100	0,008
	2020	-Rp 212.284.147.950	Rp 2.762.127.175.500	-0,077
	2021	Rp 173.254.340.690	Rp 2.547.344.478.900	0,068
PSSI	2022	Rp 438.339.705.817	Rp 3.335.602.122.448	0,131
	2023	Rp 379.831.941.208	Rp 3.827.826.243.723	0,099
	2019	Rp 175.812.938.950	Rp 2.000.483.506.010	0,088
	2020	Rp 100.161.202.050	Rp 2.081.398.783.275	0,048
	2021	Rp 395.610.921.607	Rp 2.312.126.391.000	0,171
	2022	Rp 751.433.153.846	Rp 2.835.414.452.623	0,265
	2023	Rp 720.423.055.640	Rp 3.158.588.400.224	0,228
PTIS	2019	Rp 3.778.521.780	Rp 504.525.572.100	0,007
	2020	Rp 237.289.500	Rp 500.961.935.250	0,000
	2021	Rp 602.950.864	Rp 528.499.552.800	0,001
	2022	Rp 9.041.675.408	Rp 659.291.880.411	0,014
TCPI	2023	Rp 12.899.723.400	Rp 584.817.183.684	0,022
	2019	Rp 2.066.794	Rp 3.077.535	0,088
	2020	Rp 57.886	Rp 2.752.211	0,021
	2021	Rp 85.441	Rp 2.847.296	0,030
TEBE	2022	Rp 116.698	Rp 2.809.869	0,042
	2023	Rp 189.705	Rp 3.509.253	0,054
	2019	Rp 63.678.070	Rp 898.913.890	0,071
	2020	-Rp 2.066.794	Rp 834.038.915	-0,002
	2021	Rp 202.891.081	Rp 989.060.914	0,205
	2022	Rp 423.102.362	Rp 1.302.505.387	0,325
	2023	Rp 297.964.736	Rp 1.150.900.654	0,259
TPMA	2019	Rp 123.096.836.610	Rp 1.559.551.902.480	0,079
	2020	Rp 36.319.638.600	Rp 1.470.815.959.725	0,025
	2021	Rp 63.747.684.985	Rp 1.423.336.489.200	0,045
	2022	Rp 236.791.915.746	Rp 1.697.596.409.996	0,139
	2023	Rp 315.947.235.576	Rp 1.818.985.148.179	0,174

Lampiran 4. Perhitungan X3 Metode Springate S-score

Nama Perusahaan	Tahun	Lab a Sebelum Pajak	Liabilitas Lancar	X3
ADRO	2019	Rp 9.207.668.910	Rp 17.219.435.970	0,535
	2020	Rp 3.149.188.875	Rp 16.229.283.525	0,194
	2021	Rp 21.207.315.519	Rp 19.428.071.102	1,092
	2022	Rp 70.415.401.089	Rp 38.501.811.272	1,829
ARII	2023	Rp 35.368.666.728	Rp 32.916.767.344	1,074
	2019	-Rp 79.573.120	Rp 3.637.564.480	-0,022
	2020	-Rp 253.987.650	Rp 4.055.368.275	-0,063
	2021	Rp 76.838.565	Rp 2.416.069.887	0,032
BSSR	2022	Rp 563.657.481	Rp 3.159.083.689	0,178
	2023	Rp 49.500.776	Rp 4.698.411.400	0,011
	2019	Rp 577.186.322.130	Rp 897.777.188.440	0,643
	2020	Rp 578.893.009.275	Rp 862.603.281.225	0,671
BUMI	2021	Rp 3.769.990.487.202	Rp 2.421.260.478.323	1,557
	2022	Rp 4.857.436.663.925	Rp 2.693.918.396.544	1,803
	2023	Rp 3.400.614.730.864	Rp 2.367.719.252.296	1,436
	2019	-Rp 265.654.875.090	Rp 16.384.673.218.650	-0,016
BYAN	2020	-Rp 4.570.578.764.325	Rp 18.408.571.186.950	-0,248
	2021	Rp 4.153.159.097.651	Rp 41.054.635.667.890	0,101
	2022	Rp 10.919.593.347.748	Rp 14.515.965.089.250	0,752
	2023	Rp 1.269.510.899.024	Rp 13.075.361.418.264	0,097
DSSA	2019	Rp 4.353.406.418.900	Rp 8.115.691.049.510	0,536
	2020	Rp 6.047.560.296.225	Rp 3.355.158.145.500	1,802
	2021	Rp 23.223.849.710.329	Rp 6.463.597.304.200	3,593
	2022	Rp 46.332.672.569.591	Rp 28.811.650.951.875	1,608
GEMS	2023	Rp 25.173.842.334.336	Rp 20.635.829.327.056	1,220
	2019	Rp 1.857.896.046.710	Rp 9.323.407.146.900	0,199
	2020	-Rp 76.805.919.225	Rp 10.269.852.506.550	-0,007
	2021	Rp 5.413.302.317.339	Rp 9.603.423.903.935	0,564
GTBO	2022	Rp 25.175.077.738.703	Rp 26.230.471.897.300	0,960
	2023	Rp 18.207.370.279.376	Rp 12.728.480.545.000	1,430
	2019	Rp 1.401.752.035.200	Rp 3.883.627.449.900	0,364
	2020	Rp 1.802.105.271.225	Rp 4.686.582.952.800	0,385
HRUM	2021	Rp 6.575.736.704.557	Rp 6.067.486.767.827	1,084
	2022	Rp 14.137.334.926.624	Rp 7.444.837.391.924	1,899
	2023	Rp 10.528.834.710.600	Rp 9.486.661.174.096	1,110
	2019	-Rp 56.374.845.340	Rp 52.941.242.860	-1,065
INDY	2020	-Rp 17.486.620.200	Rp 50.231.706.525	-0,348
	2021	-Rp 3.054.750.327	Rp 77.569.280.490	-0,039
	2022	Rp 120.308.564.315	Rp 76.446.603.565	1,574
	2023	Rp 84.566.117.512	Rp 97.363.524.920	0,869
ITMG	2019	Rp 358.021.693.150	Rp 436.849.890.840	0,820
	2020	Rp 909.629.552.475	Rp 350.995.509.900	2,592
	2021	Rp 1.820.294.432.223	Rp 1.149.760.532.997	1,583
	2022	Rp 7.512.294.908.814	Rp 3.550.773.051.393	2,116
KKGI	2023	Rp 4.054.414.983.448	Rp 3.959.510.048.456	1,024
	2019	Rp 756.261.745.030	Rp 9.938.413.569.920	0,076
	2020	-Rp 1.405.836.611.550	Rp 10.031.843.894.625	-0,140
	2021	Rp 7.164.571.674.927	Rp 16.206.215.032.024	0,442
MBAP	2022	Rp 15.893.614.933.668	Rp 18.545.693.856.939	0,857
	2023	Rp 3.675.646.653.744	Rp 15.146.063.635.512	0,243
	2019	Rp 2.597.134.760	Rp 3.259.033.360	0,797
	2020	Rp 1.028.438.775	Rp 2.938.477.500	0,350
PTBA	2021	Rp 8.862.318.941	Rp 5.204.517.867	1,703
	2022	Rp 24.301.122.952	Rp 9.212.278.103	2,638
	2023	Rp 9.929.630.592	Rp 5.365.219.664	2,189
	2019	Rp 112.172.254.700	Rp 251.925.899.500	0,445
SMMT	2020	-Rp 132.601.766.850	Rp 153.715.174.200	-0,863
	2021	Rp 484.548.385.742	Rp 296.207.374.276	1,636
	2022	Rp 913.323.250.227	Rp 567.351.540.268	1,610
	2023	Rp 603.124.920.792	Rp 754.054.801.648	0,800
TOBA	2019	Rp 676.688.136.080	Rp 511.070.001.748	1,321
	2020	Rp 529.770.666.600	Rp 475.717.224.150	1,114
	2021	Rp 1.839.228.567.621	Rp 751.699.210.289	2,447
	2022	Rp 3.628.435.787.106	Rp 770.295.566.706	4,710
BBRM	2023	Rp 473.799.074.672	Rp 778.463.941.072	0,609
	2019	Rp 5.455.162	Rp 4.691.251	1,163
	2020	Rp 3.231.685	Rp 3.872.457	0,835
	2021	Rp 10.358.675	Rp 7.500.647	1,381
BESS	2022	Rp 16.202.314	Rp 10.701.780	1,514
	2023	Rp 8.154.313	Rp 9.968.101	0,818
	2019	Rp 6.234.017.119	Rp 139.763.286.351	0,045
	2020	-Rp 23.386.617.883	Rp 160.127.033.037	-0,146
CNKO	2021	Rp 258.001.970.758	Rp 111.872.346.585	2,306
	2022	Rp 463.165.596.772	Rp 159.985.988.549	2,895
	2023	Rp 280.054.340.392	Rp 175.199.888.029	1,598
	2019	Rp 878.282.276.960	Rp 1.284.258.132.520	0,681
MBSS	2020	Rp 596.525.305.950	Rp 1.362.516.252.300	0,438
	2021	Rp 1.233.872.292.677	Rp 1.713.617.304.949	0,720
	2022	Rp 1.804.119.834.302	Rp 2.075.010.548.806	0,869
	2023	Rp 506.440.466.008	Rp 2.287.136.721.680	0,221
PTIS	2019	-Rp 60.359.787.840	Rp 113.309.803.860	-0,533
	2020	-Rp 156.447.121.950	Rp 319.092.716.250	-0,490
	2021	Rp 10.753.276.362	Rp 267.308.425.536	0,041
	2022	Rp 12.668.347.341	Rp 78.173.599.938	0,162
TEBE	2023	Rp 64.271.631.816	Rp 63.232.331.344	1,016
	2019	Rp 13.038.181.894	Rp 92.129.728.055	0,142
	2020	Rp 54.741.228.792	Rp 105.590.771.015	0,518
	2021	Rp 115.531.892.914	Rp 110.883.887.168	1,042
TPMA	2022	Rp 58.751.082.752	Rp 181.429.256.697	0,324
	2023	Rp 81.094.051.677	Rp 74.520.364.386	1,088
	2019	-Rp 116.487.959	Rp 1.793.934.043	0,065
	2020	-Rp 266.991.306	Rp 1.777.594.073	-0,150
MBSS	2021	-Rp 73.152.107	Rp 1.717.108.630	-0,043
	2022	-Rp 42.058.641	Rp 1.567.490.086	-0,027
	2023	-Rp 34.046.746	Rp 1.727.957.485	-0,020
	2019	Rp 25.260.106.960	Rp 218.241.812.690	0,116
PSSI	2020	-Rp 212.284.147.950	Rp 361.521.822.375	-0,587
	2021	Rp 173.254.340.690	Rp 85.486.649.175	2,027
	2022	Rp 438.339.705.817	Rp 249.548.844.348	1,757
	2023	Rp 379.831.941.208	Rp 192.370.097.600	1,974
TCPI	2019	Rp 175.812.938.950	Rp 518.920.511.560	0,339
	2020	Rp 100.161.202.050	Rp 382.977.286.650	0,262
	2021	Rp 395.610.921.607	Rp 460.479.921.688	0,859
	2022	Rp 751.433.153.846	Rp 417.401.760.548	1,800
TEBE	2023	Rp 720.423.055.640	Rp 357.986.544.248	2,012
	2019	Rp 3.778.521.780	Rp 77.067.628.440	0,049
	2020	Rp 237.289.500	Rp 36.664.275.375	0,006
	2021	Rp 602.950.864	Rp 32.714.536.300	0,018
TEBE	2022	Rp 9.041.675.408	Rp 33.489.867.479	0,270
	2023	Rp 12.899.723.400	Rp 56.117.831.928	0,230
	2019	Rp 269.950	Rp 976.285	0,277
	2020	Rp 85.441	Rp 934.229	0,062
TEBE	2021	Rp 116.698	Rp 859.876	0,136
	2022	Rp 189.705	Rp 889.080	0,213
	2023	Rp 63.678.070	Rp 120.301.292	0,529
	2019	-Rp 2.066.794	Rp 78.671.662	-0,026
TPMA	2020	-Rp 202.891.081	Rp 116.195.378	-1,746
	2021	Rp 423.193.362	Rp 235.004.803	1,800
	2022	Rp 297.964.736	Rp 47.641.053	6,254
	2023	Rp 123.096.836.610	Rp 315.293.065.120	0,390
TPMA	2020	Rp 36.319.638.600	Rp 237.633.697.350	0,153
	2021	Rp 63.747.684.985	Rp 216.040.664.909	0,295
	2022	Rp 236.791.915.746	Rp 250.565.947.884	0,945
	2023	Rp 315.947.235.576	Rp 245.680.429.272	1,286

Lampiran 5. Perhitungan X4 Metode Springate S-score

Nama Perusahaan	Tahun	Penjualan	Total Aset	X4
ADRO	2019	Rp 48.296.441.380	Rp 100.822.956.850	0,479
	2020	Rp 35.931.385.350	Rp 90.458.698.050	0,397
	2021	Rp 56.972.093.142	Rp 108.257.989.784	0,526
	2022	Rp 127.458.835.669	Rp 169.616.471.417	0,751
	2023	Rp 100.474.643.296	Rp 161.447.312.776	0,622
ARII	2019	Rp 877.357.910	Rp 5.084.409.440	0,173
	2020	Rp 597.618.000	Rp 5.114.368.350	0,117
	2021	Rp 1.645.843.536	Rp 5.271.967.430	0,312
	2022	Rp 3.869.527.111	Rp 7.058.892.975	0,548
	2023	Rp 4.325.868.344	Rp 8.135.794.000	0,532
BSSR	2019	Rp 5.840.682.249.270	Rp 3.502.004.014.520	1,668
	2020	Rp 4.698.501.703.875	Rp 3.732.897.911.400	1,259
	2021	Rp 9.865.195.415.365	Rp 6.211.543.780.834	1,588
	2022	Rp 16.187.448.556.584	Rp 6.368.399.213.925	2,542
	2023	Rp 17.486.933.118.096	Rp 6.296.735.697.368	2,777
BUMI	2019	Rp 15.542.555.653.460	Rp 50.458.925.350.680	0,308
	2020	Rp 11.204.435.927.475	Rp 48.599.700.885.225	0,231
	2021	Rp 14.386.190.940.275	Rp 60.269.220.783.934	0,239
	2022	Rp 28.788.987.331.637	Rp 70.601.466.869.339	0,408
	2023	Rp 25.898.090.161.240	Rp 64.788.734.033.856	0,400
BYAN	2019	Rp 19.440.509.980.980	Rp 17.854.220.518.310	1,089
	2020	Rp 19.775.730.573.900	Rp 22.959.602.186.850	0,861
	2021	Rp 40.698.326.152.632	Rp 34.726.639.253.379	1,172
	2022	Rp 73.992.678.279.778	Rp 62.066.013.405.315	1,192
	2023	Rp 55.210.483.212.648	Rp 53.097.634.283.456	1,040
DSSA	2019	Rp 23.279.822.872.570	Rp 51.954.053.704.080	0,448
	2020	Rp 21.366.291.164.400	Rp 41.110.769.066.850	0,520
	2021	Rp 30.891.618.583.472	Rp 42.950.727.299.224	0,719
	2022	Rp 93.695.500.305.338	Rp 101.168.891.290.058	0,926
	2023	Rp 77.305.998.128.352	Rp 47.223.416.830.072	1,637
GEMS	2019	Rp 15.471.273.490.970	Rp 10.905.626.952.990	1,419
	2020	Rp 15.045.485.006.475	Rp 11.534.449.318.875	1,304
	2021	Rp 22.629.971.789.979	Rp 11.829.385.364.053	1,913
	2022	Rp 45.933.960.023.593	Rp 17.761.664.513.724	2,586
	2023	Rp 44.734.708.339.136	Rp 20.226.443.248.920	2,212
GTBO	2019	Rp 228.194.585.520	Rp 769.057.217.280	0,297
	2020	Rp 58.750.966.565	Rp 795.075.140.475	0,000
	2021	Rp 775.021.835.539	Rp 814.541.013.540	0,072
	2022	Rp 906.414.629.080	Rp 971.207.179.406	0,798
	2023	Rp 3.668.391.645.930	Rp 1.062.644.442.904	0,853
HRUM	2019	Rp 2.237.084.991.225	Rp 6.244.617.297.380	0,587
	2020	Rp 4.796.888.452.073	Rp 7.069.103.911.800	0,316
	2021	Rp 14.227.710.953.145	Rp 12.480.489.037.558	0,384
	2022	Rp 14.267.821.561.440	Rp 20.116.894.920.736	0,707
	2023	Rp 38.873.989.587.400	Rp 25.175.980.471.872	0,567
INDY	2019	Rp 25.710.991.488.000	Rp 50.517.798.018.050	0,770
	2020	Rp 43.793.860.007.011	Rp 49.523.237.997.975	0,519
	2021	Rp 68.192.480.614.975	Rp 52.673.686.754.169	0,831
	2022	Rp 46.661.752.953.040	Rp 56.535.201.092.702	1,206
	2023	Rp 23.966.820.240	Rp 47.991.586.444.240	0,972
ITMG	2019	Rp 16.802.137.800	Rp 16.890.302.770	1,419
	2020	Rp 29.634.044.697	Rp 16.423.566.075	1,023
	2021	Rp 57.201.266.703	Rp 23.775.564.291	1,246
	2022	Rp 36.602.440.040	Rp 43.532.624.387	0,942
	2023	Rp 1.604.478.765.890	Rp 33.727.849.352	1,085
KKG	2019	Rp 1.023.741.123.300	Rp 1.765.172.881.890	0,909
	2020	Rp 1.885.645.096.668	Rp 1.540.656.411.525	0,664
	2021	Rp 4.015.197.366.556	Rp 1.886.109.338.583	1,000
	2022	Rp 4.542.663.798.656	Rp 2.677.175.358.390	1,500
	2023	Rp 3.644.071.747.910	Rp 3.091.471.608.960	1,469
MBAP	2019	Rp 2.852.113.235.225	Rp 2.689.606.227.330	1,355
	2020	Rp 4.421.108.757.894	Rp 2.579.468.720.850	1,106
	2021	Rp 7.071.644.586.524	Rp 3.677.412.944.091	1,202
	2022	Rp 3.454.525.284.496	Rp 4.822.302.985.601	1,466
	2023	Rp 21.787.564	Rp 3.537.982.020.400	0,976
PTBA	2019	Rp 17.325.192	Rp 26.098.052	0,835
	2020	Rp 29.261.468	Rp 24.056.755	0,720
	2021	Rp 42.645.590	Rp 36.123.703	0,810
	2022	Rp 38.488.867	Rp 45.399.207	0,942
	2023	Rp 250.264.866.368	Rp 38.765.189	0,993
SMMT	2019	Rp 209.445.719.950	Rp 871.513.339.763	0,287
	2020	Rp 508.273.589.516	Rp 881.768.218.140	0,238
	2021	Rp 1.049.271.370.556	Rp 1.051.640.434.770	0,483
	2022	Rp 1.016.267.095.417	Rp 1.182.852.785.319	0,282
	2023	Rp 7.341.577.251.030	Rp 1.007.863.610.940	1,008
TOBA	2019	Rp 4.705.141.826.700	Rp 8.865.927.170.320	0,828
	2020	Rp 6.601.785.620.197	Rp 10.941.282.580.725	0,430
	2021	Rp 10.001.619.411.640	Rp 12.244.255.782.796	0,539
	2022	Rp 7.727.466.504.416	Rp 14.147.353.261.167	0,707
	2023	Rp 1.241.405.693.210	Rp 14.611.866.414.848	0,223
BBRM	2019	Rp 160.863.810.975	Rp 1.082.659.311.690	0,223
	2020	Rp 107.757.647.299	Rp 527.499.349.650	0,305
	2021	Rp 146.781.619.244	Rp 480.101.937.038	0,224
	2022	Rp 162.570.275.880	Rp 534.995.169.994	0,274
	2023	Rp 240.357.716.479	Rp 536.265.523.720	0,303
BESS	2019	Rp 295.532.059.811	Rp 568.979.239.113	0,522
	2020	Rp 404.097.297.862	Rp 620.407.533.334	0,476
	2021	Rp 406.469.609.964	Rp 667.408.015.354	0,605
	2022	Rp 363.741.176.938	Rp 772.666.449.902	0,526
	2023	Rp 1.220.774.774	Rp 689.803.373.589	0,527
CNKO	2019	Rp 884.575.360	Rp 1.635.154.338	0,747
	2020	Rp 980.326.231	Rp 1.110.213.240	0,797
	2021	Rp 1.375.279.833	Rp 1.206.842.636	0,812
	2022	Rp 1.741.978.238	Rp 905.892.550	1,518
	2023	Rp 1.087.436.646.560	Rp 976.451.944	1,784
MBSS	2019	Rp 777.680.637.775	Rp 3.047.351.957.100	0,357
	2020	Rp 1.047.417.842.777	Rp 2.762.127.175.500	0,282
	2021	Rp 1.390.211.803.006	Rp 2.534.732.103.865	0,413
	2022	Rp 974.087.446.728	Rp 3.319.144.600.432	0,419
	2023	Rp 1.052.290.990.410	Rp 3.808.801.999.176	0,256
PSSI	2019	Rp 968.932.351.800	Rp 2.000.483.506.010	0,526
	2020	Rp 1.551.526.394.774	Rp 2.081.398.783.275	0,466
	2021	Rp 1.876.401.608.424	Rp 2.300.678.624.350	0,674
	2022	Rp 1.578.465.930.312	Rp 2.821.424.805.757	0,665
	2023	Rp 43.230.989.230	Rp 3.142.890.258.688	0,502
PTIS	2019	Rp 173.464.620.525	Rp 504.525.572.100	0,086
	2020	Rp 179.855.650.967	Rp 500.961.935.250	0,346
	2021	Rp 288.822.764.562	Rp 525.882.853.480	0,342
	2022	Rp 215.576.064.472	Rp 656.039.001.249	0,440
	2023	Rp 2.319.911	Rp 581.910.650.208	0,370
TCPI	2019	Rp 1.672.368	Rp 3.077.535	0,754
	2020	Rp 1.670.829	Rp 2.752.211	0,608
	2021	Rp 1.758.131	Rp 2.847.296	0,587
	2022	Rp 1.825.584	Rp 2.809.869	0,626
	2023	Rp 379.904.122	Rp 3.509.253	0,520
TEBE	2019	Rp 197.952.877	Rp 898.913.890	0,423
	2020	Rp 448.008.428	Rp 834.038.915	0,237
	2021	Rp 781.793.751	Rp 989.060.914	0,453
	2022	Rp 632.232.808	Rp 1.302.505.387	0,600
	2023	Rp 666.210.985.330	Rp 1.150.900.654	0,549
TPMA	2019	Rp 563.623.344.900	Rp 1.559.531.902.480	0,427
	2020	Rp 599.528.958.034	Rp 1.470.815.959.725	0,383
	2021	Rp 987.931.969.600	Rp 1.416.289.286.220	0,423
	2022	Rp 1.026.433.615.512	Rp 1.689.220.641.764	0,585
	2023		Rp 1.809.944.816.648	0,567

Lampiran 6. Perhitungan X1 Metode Taffler T-score

Nama Perusahaan	Tahun	LABA SEBELUM PAJAK	KEWAJIBAN LANCAR	X1
ADRO	2019 Rp	9.207.668.910	Rp 17.219.435.970	0,535
	2020 Rp	3.149.188.875	Rp 16.229.283.525	0,194
	2021 Rp	21.207.315.519	Rp 19.428.071.102	1,092
	2022 Rp	70.415.401.089	Rp 38.501.811.272	1,829
	2023 Rp	35.368.666.728	Rp 32.916.767.344	1,074
ARII	2019 -Rp	79.573.120	Rp 3.637.564.480	-0,022
	2020 -Rp	253.987.650	Rp 4.055.368.275	-0,063
	2021 Rp	76.838.565	Rp 2.416.069.887	0,032
	2022 Rp	563.657.461	Rp 3.159.083.689	0,178
	2023 Rp	49.500.776	Rp 4.698.411.400	0,011
BSSR	2019 Rp	577.186.322.130	Rp 897.777.188.440	0,643
	2020 Rp	578.893.009.275	Rp 862.603.281.225	0,671
	2021 Rp	3.769.990.487.202	Rp 2.421.260.478.323	1,557
	2022 Rp	4.857.436.663.925	Rp 2.693.918.396.544	1,803
	2023 Rp	3.400.614.730.864	Rp 2.367.719.252.296	1,436
BUMI	2019 -Rp	265.654.875.090	Rp 16.384.673.218.650	-0,016
	2020 -Rp	4.570.578.764.325	Rp 18.408.571.186.950	-0,248
	2021 Rp	4.153.159.097.651	Rp 41.054.635.667.890	0,101
	2022 Rp	10.919.593.547.748	Rp 14.515.965.089.250	0,752
	2023 Rp	1.269.510.899.024	Rp 13.075.361.418.264	0,097
BYAN	2019 Rp	4.353.406.418.900	Rp 8.115.691.049.510	0,536
	2020 Rp	6.047.560.296.225	Rp 3.355.158.145.500	1,802
	2021 Rp	23.223.849.710.329	Rp 6.463.597.304.200	3,593
	2022 Rp	46.332.672.569.591	Rp 28.811.650.951.875	1,608
	2023 Rp	25.173.842.334.336	Rp 20.635.829.327.056	1,220
DSSA	2019 Rp	1.857.896.046.710	Rp 9.323.407.146.900	0,199
	2020 -Rp	76.805.919.225	Rp 10.269.852.506.550	-0,007
	2021 Rp	5.413.302.317.339	Rp 9.603.423.903.935	0,564
	2022 Rp	25.175.077.738.703	Rp 26.230.471.897.300	0,960
	2023 Rp	18.207.370.279.376	Rp 12.728.480.545.003	1,430
GEMS	2019 Rp	1.401.752.035.200	Rp 3.883.627.449.900	0,361
	2020 Rp	1.802.105.271.225	Rp 4.686.582.952.800	0,385
	2021 Rp	6.575.736.704.557	Rp 6.067.486.767.827	1,084
	2022 Rp	14.137.334.926.624	Rp 7.444.837.391.924	1,899
	2023 Rp	10.528.834.710.600	Rp 9.486.661.174.096	1,110
GTBO	2019 -Rp	56.374.845.340	Rp 52.941.242.860	-1,065
	2020 -Rp	17.486.620.200	Rp 50.231.706.525	-0,348
	2021 Rp	3.054.759.327	Rp 77.569.280.490	-0,039
	2022 Rp	120.308.564.315	Rp 76.446.603.565	1,574
	2023 Rp	84.566.117.512	Rp 97.363.524.920	0,869
HRUM	2019 Rp	358.021.693.150	Rp 436.849.890.840	0,820
	2020 Rp	909.629.552.475	Rp 350.995.509.900	2,592
	2021 Rp	1.820.294.432.223	Rp 1.149.760.532.997	1,583
	2022 Rp	7.512.294.908.814	Rp 3.350.773.051.393	2,116
	2023 Rp	4.054.414.983.448	Rp 3.959.510.048.456	1,024
INDY	2019 Rp	756.261.745.030	Rp 9.938.413.569.920	0,076
	2020 -Rp	1.405.836.611.550	Rp 10.031.843.894.625	-0,140
	2021 Rp	7.164.571.674.927	Rp 16.206.215.032.024	0,442
	2022 Rp	15.893.614.933.668	Rp 18.545.693.856.939	0,857
	2023 Rp	3.675.646.653.744	Rp 15.146.063.635.512	0,243
ITMG	2019 Rp	2.597.134.760	Rp 3.259.033.360	0,797
	2020 Rp	1.028.438.775	Rp 2.938.477.500	0,350
	2021 Rp	8.862.318.941	Rp 5.204.517.867	1,703
	2022 Rp	24.301.122.952	Rp 9.212.278.103	2,638
	2023 Rp	9.929.630.592	Rp 4.536.219.664	2,189
KKGI	2019 Rp	112.172.254.700	Rp 251.925.899.500	0,445
	2020 -Rp	132.601.766.850	Rp 153.715.174.200	-0,863
	2021 Rp	484.548.385.742	Rp 296.207.374.276	1,636
	2022 Rp	913.323.250.227	Rp 567.351.540.268	1,610
	2023 Rp	603.124.977.792	Rp 754.054.801.648	0,800
MBAP	2019 Rp	676.688.136.080	Rp 512.070.000.750	1,321
	2020 Rp	529.770.666.600	Rp 475.717.224.150	1,114
	2021 Rp	1.839.228.567.621	Rp 751.699.210.289	2,447
	2022 Rp	3.628.435.787.106	Rp 770.295.566.706	4,710
	2023 Rp	473.799.074.672	Rp 778.463.941.073	0,609
PTBA	2019 Rp	5.455.162,00	Rp 4.691.251,00	1,163
	2020 Rp	3.231.685,00	Rp 3.872.457,00	0,835
	2021 Rp	10.358.675,00	Rp 7.500.647,00	1,381
	2022 Rp	16.202.314,00	Rp 10.701.780,00	1,514
	2023 Rp	8.154.313,00	Rp 9.968.101,00	0,818
SMMT	2019 Rp	6.234.017.119,00	Rp 139.763.286.351,00	0,045
	2020 Rp	23.386.617.983,00	Rp 160.127.033.037,00	-0,146
	2021 Rp	258.001.970.758,00	Rp 111.872.346.585,00	2,306
	2022 Rp	463.165.596.772,00	Rp 159.985.988.549,00	2,895
	2023 Rp	280.054.340.392,00	Rp 175.199.888.029,00	1,598
TOBA	2019 Rp	878.282.276.960	Rp 1.284.258.132.520	0,684
	2020 Rp	596.525.305.950	Rp 1.362.516.252.300	0,438
	2021 Rp	1.233.872.292.677	Rp 1.713.617.304.949	0,720
	2022 Rp	1.804.119.834.302	Rp 2.075.010.548.806	0,869
	2023 Rp	506.440.466.008	Rp 2.287.136.721.680	0,221
BBRM	2019 -Rp	60.359.787.840	Rp 113.309.803.860	-0,533
	2020 -Rp	156.447.121.950	Rp 319.092.716.250	-0,490
	2021 Rp	10.753.275.359	Rp 265.308.425.536	0,041
	2022 Rp	12.668.347.341	Rp 78.173.599.938	0,162
	2023 Rp	64.271.631.816	Rp 63.232.331.344	1,016
BESS	2019 Rp	13.038.181.899,00	Rp 92.129.728.055,00	0,142
	2020 Rp	54.741.228.792,00	Rp 105.590.771.015,00	0,518
	2021 Rp	115.531.892.914,00	Rp 110.883.887.168,00	1,042
	2022 Rp	58.751.082.752,00	Rp 181.429.256.697,00	0,324
	2023 Rp	81.094.051.677,00	Rp 74.520.364.386,00	1,088
CNKO	2019 Rp	116.487.959,00	Rp 1.793.934.043,00	0,065
	2020 Rp	-266.991.306,00	Rp 1.777.594.073,00	-0,150
	2021 Rp	-73.152.107,00	Rp 1.717.108.630,00	-0,043
	2022 Rp	-42.058.641,00	Rp 1.567.490.086,00	-0,027
	2023 Rp	-34.046.746,00	Rp 1.727.957.485,00	-0,020
MBSS	2019 Rp	25.260.106.960	Rp 218.241.812.690	0,116
	2020 -Rp	212.284.147.950	Rp 361.521.822.375	-0,587
	2021 Rp	173.254.340.690	Rp 85.486.649.175	2,027
	2022 Rp	438.339.705.817	Rp 249.548.844.348	1,757
	2023 Rp	379.831.941.208	Rp 192.370.097.600	1,974
PSSI	2019 Rp	175.812.938.950	Rp 518.920.511.560	0,339
	2020 Rp	100.161.202.050	Rp 382.977.286.650	0,262
	2021 Rp	395.610.921.607	Rp 460.479.921.688	0,859
	2022 Rp	751.433.153.846	Rp 417.401.760.548	1,800
	2023 Rp	720.423.055.640	Rp 357.986.544.248	2,012
PTIS	2019 Rp	3.778.521.780	Rp 77.067.628.440	0,049
	2020 Rp	237.289.500	Rp 36.664.275.375	0,006
	2021 Rp	602.950.864	Rp 32.714.536.300	0,018
	2022 Rp	9.041.675.408	Rp 33.489.867.479	0,270
	2023 Rp	12.899.723.400	Rp 56.117.831.928	0,230
TCPI	2019 Rp	269.950,00	Rp 976.285,00	0,277
	2020 Rp	57.886,00	Rp 936.229,00	0,062
	2021 Rp	85.441,00	Rp 954.930,00	0,089
	2022 Rp	116.698,00	Rp 859.876,00	0,136
	2023 Rp	189.705,00	Rp 889.080,00	0,213
TEBE	2019 Rp	63.678.070,00	Rp 120.301.292,00	0,529
	2020 Rp	-2.066.794,00	Rp 78.671.662,00	-0,026
	2021 Rp	202.891.081,00	Rp 116.195.378,00	1,746
	2022 Rp	423.102.362,00	Rp 235.004.803,00	1,800
	2023 Rp	297.964.736,00	Rp 47.641.053,00	6,254
TPMA	2019 Rp	123.096.836.610	Rp 315.293.065.120	0,390
	2020 Rp	36.319.638.600	Rp 237.633.697.350	0,153
	2021 Rp	63.747.684.985	Rp 216.040.664.909	0,295
	2022 Rp	236.791.915.746	Rp 250.565.947.884	0,945
	2023 Rp	315.947.235.576	Rp 245.680.429.272	1,286

Lampiran 7. Perhitungan X2 Metode Taffler T-score

Nama Perusahaan	Tahun	AKTIVA LANCAR	KEWAJIBAN LANCAR	X2
ADRO	2019	Rp29.475.638.280,00	Rp 17.219.435.970	1,712
	2020	Rp24.545.699.325,00	Rp 16.229.283.525	1,512
	2021	Rp40.497.305.508,00	Rp 19.428.071.102	2,084
	2022	Rp83.678.049.879,00	Rp 38.501.811.272	2,173
ARII	2023	Rp66.320.140.728,00	Rp 32.916.767.344	2,015
	2019	Rp875.849.150,00	Rp 3.637.564.480	0,241
	2020	Rp844.050.375,00	Rp 4.055.368.275	0,208
	2021	Rp1.072.757.689,00	Rp 2.416.069.887	0,444
BSSR	2022	Rp2.278.965.701,00	Rp 3.159.083.689	0,721
	2023	Rp3.275.992.496,00	Rp 4.698.411.400	0,697
	2019	Rp1.083.196.555.980,00	Rp 897.777.188.440	1,207
	2020	Rp1.360.346.768.550,00	Rp 862.603.281.225	1,577
BUMI	2021	Rp3.878.086.495.298,00	Rp 2.421.260.478.323	1,602
	2022	Rp3.354.552.359.969,00	Rp 2.693.918.396.544	1,245
	2023	Rp3.265.833.937.808,00	Rp 2.367.719.252.296	1,379
	2019	Rp6.342.394.444.980,00	Rp 16.384.673.218.650	0,387
BYAN	2020	Rp5.632.814.793.375,00	Rp 18.408.571.186.950	0,306
	2021	Rp11.066.792.114.720,00	Rp 41.054.635.667.890	0,270
	2022	Rp12.155.845.691.941,00	Rp 14.515.965.089.250	0,837
	2023	Rp10.863.912.678.032,00	Rp 13.075.361.418.264	0,831
DSSA	2019	Rp 7.258.465.767.520	Rp 8.115.691.049.510	0,894
	2020	Rp 10.904.473.181.700	Rp 3.355.158.145.500	3,250
	2021	Rp 20.239.617.466.241	Rp 6.463.597.304.200	3,131
	2022	Rp 37.761.057.941.247	Rp 28.811.650.951.875	1,311
GEMS	2023	Rp 29.308.808.476.840	Rp 20.635.829.327.056	1,420
	2019	Rp 12.088.006.317.970	Rp 9.323.407.146.900	1,297
	2020	Rp 15.945.688.382.400	Rp 10.269.852.506.550	1,553
	2021	Rp 16.344.465.518.054	Rp 9.603.423.903.935	1,702
GTBO	2022	Rp 35.661.209.244.611	Rp 26.230.471.897.300	1,360
	2023	Rp 21.316.315.323.112	Rp 12.728.480.545.000	1,675
	2019	Rp 5.137.660.635.250	Rp 3.883.627.449.900	1,323
	2020	Rp 5.781.369.204.450	Rp 4.686.582.952.800	1,234
HRUM	2021	Rp 6.195.033.491.928	Rp 6.067.486.767.827	1,021
	2022	Rp 11.394.274.270.408	Rp 7.444.837.391.924	1,530
	2023	Rp 12.979.873.974.296	Rp 9.486.661.174.096	1,368
	2019	Rp 24.195.942.210	Rp 52.941.242.860	0,457
INDY	2020	Rp 23.400.075.825	Rp 50.231.706.525	0,466
	2021	Rp 42.686.726.599	Rp 77.569.280.490	0,550
	2022	Rp 154.673.704.634	Rp 76.446.603.565	2,023
	2023	Rp 298.098.236.208	Rp 97.363.524.920	3,062
ITMG	2019	Rp 4.028.806.972.850	Rp 436.849.890.840	9,222
	2020	Rp 3.536.036.276.850	Rp 350.995.509.900	10,074
	2021	Rp 3.533.172.859.814	Rp 1.149.760.532.997	3,073
	2022	Rp 8.168.952.736.141	Rp 3.550.773.051.393	2,301
KKGI	2023	Rp 6.664.311.564.008	Rp 3.959.510.048.456	1,683
	2019	Rp 19.997.033.038.620	Rp 9.938.413.569.920	2,012
	2020	Rp 19.761.576.396.975	Rp 10.031.843.894.625	1,970
	2021	Rp 29.850.039.715.378	Rp 16.206.215.032.024	1,842
MBAP	2022	Rp 31.506.634.856.242	Rp 18.545.693.856.939	1,699
	2023	Rp 22.878.923.785.432	Rp 15.146.063.635.512	1,511
	2019	Rp 6.557.364.330	Rp 3.259.033.360	2,012
	2020	Rp 5.952.550.275	Rp 2.938.477.500	2,026
PTBA	2021	Rp 14.098.114.456	Rp 5.204.517.867	2,709
	2022	Rp 30.023.321.395	Rp 9.212.278.103	3,259
	2023	Rp 19.730.506.752	Rp 4.536.219.664	4,350
	2019	Rp 547.583.067.900	Rp 251.925.899.500	2,174
SMMT	2020	Rp 468.982.780.875	Rp 153.715.174.200	3,051
	2021	Rp 716.475.741.450	Rp 296.207.374.276	2,419
	2022	Rp 1.465.878.589.439	Rp 567.351.540.268	2,584
	2023	Rp 1.795.367.647.456	Rp 754.054.801.648	2,381
TOBA	2019	Rp 1.845.307.302.520	Rp 532.070.000.750	3,474
	2020	Rp 1.781.090.904.600	Rp 475.717.224.150	3,744
	2021	Rp 2.990.042.324.046	Rp 751.699.210.289	3,978
	2022	Rp 4.127.128.858.751	Rp 770.295.566.706	5,358
BBRM	2023	Rp 2.913.692.292.880	Rp 778.463.941.072	3,743
	2019	Rp 11.679.884,00	Rp 4.691.251,00	2,490
	2020	Rp 8.364.356,00	Rp 3.872.457,00	2,160
	2021	Rp 18.211.500,00	Rp 7.500.647,00	2,428
SMMT	2022	Rp 24.432.148,00	Rp 10.701.780,00	2,283
	2023	Rp 15.148.356,00	Rp 9.968.101,00	1,520
	2019	Rp 85.378.192.680,00	Rp 139.763.286.351,00	0,611
	2020	Rp 93.577.946.345,00	Rp 160.127.033.037,00	0,584
CNKO	2021	Rp 237.930.057.104,00	Rp 111.872.346.585,00	2,127
	2022	Rp 171.801.416.368,00	Rp 159.985.988.549,00	1,074
	2023	Rp 188.675.899.475,00	Rp 175.199.888.029,00	1,077
	2019	Rp 1.181.005.555.180	Rp 1.284.258.132.520	0,920
MBSS	2020	Rp 997.344.055.575	Rp 1.362.516.252.300	0,732
	2021	Rp 2.982.487.915.914	Rp 1.713.617.304.949	1,740
	2022	Rp 4.110.125.960.208	Rp 2.075.010.548.806	1,981
	2023	Rp 3.667.161.425.272	Rp 2.287.136.721.680	1,603
BESS	2019	Rp 105.308.276.810	Rp 113.309.803.860	0,929
	2020	Rp 113.108.193.450	Rp 319.092.716.250	0,354
	2021	Rp 128.834.886.614	Rp 265.308.425.536	0,486
	2022	Rp 143.894.917.820	Rp 78.173.599.938	1,841
PSSI	2023	Rp 158.080.288.800	Rp 63.232.331.344	2,500
	2019	Rp 21.327.461.587,00	Rp 92.129.728.055,00	0,231
	2020	Rp 99.934.687.098,00	Rp 105.590.771.015,00	0,946
	2021	Rp 137.475.358.287,00	Rp 110.883.887.168,00	1,240
CNKO	2022	Rp 213.870.565.668,00	Rp 181.429.256.697,00	1,179
	2023	Rp 168.832.887.239,00	Rp 74.520.364.386,00	2,266
	2019	Rp 807.439.077,00	Rp 1.793.934.043,00	0,450
	2020	Rp 421.671.344,00	Rp 1.777.594.073,00	0,237
PTIS	2021	Rp 557.796.856,00	Rp 1.717.108.630,00	0,325
	2022	Rp 357.342.129,00	Rp 1.567.490.086,00	0,228
	2023	Rp 478.128.660,00	Rp 1.727.957.485,00	0,277
	2019	Rp 810.119.336.070	Rp 218.241.812.690	3,712
TCPI	2020	Rp 762.311.895.975	Rp 361.521.822.375	2,109
	2021	Rp 634.271.818.415	Rp 85.486.649.175	7,420
	2022	Rp 1.760.628.432.988	Rp 249.548.844.348	7,055
	2023	Rp 2.497.525.980.456	Rp 192.370.097.600	12,983
TEBE	2019	Rp 352.426.638.300	Rp 518.920.511.560	0,679
	2020	Rp 419.339.010.825	Rp 382.977.286.650	1,095
	2021	Rp 723.766.429.924	Rp 460.479.921.688	1,572
	2022	Rp 926.329.027.518	Rp 417.401.760.548	2,219
TPMA	2023	Rp 1.457.121.907.848	Rp 357.986.544.248	4,070
	2019	Rp 74.256.054.180	Rp 77.067.628.440	0,964
	2020	Rp 96.236.286.300	Rp 36.664.275.375	2,625
	2021	Rp 117.373.626.282	Rp 32.714.536.300	3,588
TEBE	2022	Rp 148.655.149.882	Rp 33.489.867.479	4,439
	2023	Rp 172.119.146.688	Rp 56.117.831.928	3,067
	2019	Rp 972.877,00	Rp 976.285,00	0,997
	2020	Rp 771.851,00	Rp 936.229,00	0,824
TEBE	2021	Rp 762.722,00	Rp 954.939,00	0,799
	2022	Rp 702.956,00	Rp 859.876,00	0,818
	2023	Rp 800.686,00	Rp 889.080,00	0,901
TPMA	2019	Rp 161.552.193,00	Rp 120.301.292,00	1,343
	2020	Rp 82.923.190,00	Rp 78.671.662,00	1,054
	2021	Rp 291.282.052,00	Rp 116.195.378,00	2,507
	2022	Rp 454.419.703,00	Rp 235.004.803,00	1,934
TPMA	2023	Rp 449.977.658,00	Rp 47.641.053,00	9,445
	2019	Rp 265.590.277.810	Rp 315.293.065.120	0,842
	2020	Rp 259.871.224.725	Rp 237.633.697.350	1,094
	2021	Rp 295.614.083.525	Rp 216.040.664.909	1,368
	2022	Rp 416.118.063.755	Rp 250.565.947.884	1,661
	2023	Rp 436.586.916.416	Rp 245.680.429.272	1,777

Lampiran 8. Perhitungan X3 Metode Taffler T-score

Nama Perusahaan	Tahun	KEWAJIBAN LANCAR		TOTAL ASET		X3
		Rp		Rp		
ADRO	2019	Rp	17.219.435.970	Rp	100.822.956.850	0,171
	2020	Rp	16.229.283.525	Rp	90.458.698.050	0,179
	2021	Rp	19.428.071.102	Rp	108.257.989.784	0,179
	2022	Rp	38.501.811.272	Rp	169.616.471.417	0,227
ARII	2023	Rp	32.916.767.344	Rp	161.447.312.776	0,204
	2019	Rp	3.637.564.480	Rp	5.084.409.440	0,715
	2020	Rp	4.055.368.275	Rp	5.114.368.350	0,793
	2021	Rp	2.416.069.887	Rp	5.271.967.430	0,458
BSSR	2022	Rp	3.159.083.689	Rp	7.058.892.975	0,448
	2023	Rp	4.698.411.400	Rp	8.135.794.000	0,577
	2019	Rp	897.777.188.440	Rp	3.502.004.014.520	0,256
	2020	Rp	862.603.281.225	Rp	3.732.897.911.400	0,231
BUMI	2021	Rp	2.421.260.478.323	Rp	6.211.543.780.834	0,390
	2022	Rp	2.693.918.396.544	Rp	6.368.399.213.925	0,423
	2023	Rp	2.367.719.252.296	Rp	6.296.735.697.368	0,376
	2019	Rp	16.384.673.218.650	Rp	50.458.925.350.680	0,325
BYAN	2020	Rp	18.408.571.186.950	Rp	48.599.700.885.225	0,379
	2021	Rp	41.054.635.667.890	Rp	60.269.220.783.934	0,681
	2022	Rp	14.515.965.089.250	Rp	70.601.466.869.339	0,206
	2023	Rp	13.075.361.418.264	Rp	64.788.734.033.856	0,202
DSSA	2019	Rp	8.115.691.049.510	Rp	17.854.220.518.310	0,455
	2020	Rp	3.355.158.145.500	Rp	22.959.602.186.850	0,146
	2021	Rp	6.463.597.304.200	Rp	34.726.639.253.379	0,186
	2022	Rp	28.811.650.951.875	Rp	62.066.013.405.315	0,464
GEMS	2023	Rp	20.635.829.327.056	Rp	53.097.634.283.456	0,389
	2019	Rp	9.323.407.146.900	Rp	51.954.053.704.080	0,179
	2020	Rp	10.269.852.506.550	Rp	41.110.769.066.850	0,250
	2021	Rp	9.603.423.903.935	Rp	42.950.727.299.224	0,224
GTBO	2022	Rp	26.230.471.897.300	Rp	101.168.891.290.058	0,259
	2023	Rp	12.728.480.545.000	Rp	47.223.416.830.072	0,270
	2019	Rp	3.883.627.449.900	Rp	10.905.626.952.990	0,356
	2020	Rp	4.686.582.952.800	Rp	11.534.449.318.875	0,406
HRUM	2021	Rp	6.067.486.767.827	Rp	11.829.385.364.053	0,513
	2022	Rp	7.444.837.391.924	Rp	17.761.664.513.724	0,419
	2023	Rp	9.486.661.174.096	Rp	20.226.443.248.920	0,469
	2019	Rp	52.941.242.860	Rp	769.057.217.280	0,069
INDY	2020	Rp	50.231.706.525	Rp	795.075.140.475	0,063
	2021	Rp	77.569.280.490	Rp	814.541.013.540	0,095
	2022	Rp	76.446.603.565	Rp	971.207.179.406	0,079
	2023	Rp	97.363.524.920	Rp	1.062.644.442.904	0,092
ITMG	2019	Rp	436.849.890.840	Rp	6.244.617.297.380	0,070
	2020	Rp	350.995.509.900	Rp	7.069.103.911.800	0,050
	2021	Rp	1.149.760.532.997	Rp	12.480.489.037.558	0,092
	2022	Rp	3.550.773.051.393	Rp	20.116.894.920.736	0,177
KKGI	2023	Rp	3.959.510.048.456	Rp	25.175.980.471.872	0,157
	2019	Rp	9.938.413.569.920	Rp	50.517.798.018.050	0,197
	2020	Rp	10.031.843.894.625	Rp	49.523.237.997.975	0,203
	2021	Rp	16.206.215.032.024	Rp	52.673.686.754.169	0,308
MBAP	2022	Rp	18.545.693.856.939	Rp	56.535.201.092.702	0,328
	2023	Rp	15.146.063.635.512	Rp	47.991.586.444.240	0,316
	2019	Rp	3.259.033.360	Rp	16.890.302.770	0,193
	2020	Rp	2.938.477.500	Rp	16.423.566.075	0,179
PTBA	2021	Rp	5.204.517.867	Rp	23.775.564.291	0,219
	2022	Rp	9.212.278.103	Rp	41.532.624.387	0,222
	2023	Rp	4.536.219.664	Rp	33.727.849.352	0,134
	2019	Rp	251.925.899.500	Rp	1.765.172.881.890	0,143
SMMT	2020	Rp	153.715.174.200	Rp	1.540.656.411.525	0,100
	2021	Rp	296.207.374.276	Rp	1.886.109.338.583	0,157
	2022	Rp	567.351.540.268	Rp	2.677.175.358.390	0,212
	2023	Rp	754.054.801.648	Rp	3.091.471.608.960	0,244
TOBA	2019	Rp	512.070.000.750	Rp	2.689.606.227.330	0,190
	2020	Rp	475.717.224.150	Rp	2.579.468.720.850	0,174
	2021	Rp	751.699.210.289	Rp	3.677.412.944.091	0,204
	2022	Rp	770.295.566.706	Rp	4.822.302.985.601	0,160
TTMG	2023	Rp	778.463.941.072	Rp	3.537.982.020.400	0,220
	2019	Rp	4.691.251.00	Rp	26.098.052.00	0,180
	2020	Rp	3.872.457.00	Rp	24.056.755.00	0,161
	2021	Rp	7.500.647.00	Rp	36.123.703.00	0,208
BBRM	2022	Rp	10.701.780.00	Rp	45.359.207.00	0,236
	2023	Rp	9.968.101.00	Rp	38.765.189.00	0,257
	2019	Rp	139.763.286.351,00	Rp	871.513.339.763,00	0,160
	2020	Rp	160.127.033.037,00	Rp	881.768.218.140,00	0,182
BESS	2021	Rp	111.872.346.585,00	Rp	1.051.640.434.770,00	0,106
	2022	Rp	159.985.988.549,00	Rp	1.182.852.785.319,00	0,135
	2023	Rp	175.199.888.029,00	Rp	1.007.863.610.940,00	0,174
	2019	Rp	1.284.258.132.520	Rp	8.865.927.170.320	0,145
CNKO	2020	Rp	1.362.516.252.300	Rp	10.941.282.580.725	0,125
	2021	Rp	1.713.617.304.949	Rp	12.244.255.782.796	0,140
	2022	Rp	2.075.010.548.806	Rp	14.147.353.261.167	0,147
	2023	Rp	2.287.136.721.680	Rp	14.611.866.414.848	0,157
PTIS	2019	Rp	113.309.803.960	Rp	1.082.659.311.690	0,105
	2020	Rp	319.092.716.250	Rp	527.499.349.650	0,605
	2021	Rp	265.308.425.536	Rp	480.101.937.038	0,553
	2022	Rp	78.173.599.938	Rp	534.995.169.994	0,146
MBSS	2023	Rp	63.232.331.344	Rp	536.265.523.720	0,118
	2019	Rp	92.129.728.055,00	Rp	568.979.239.113,00	0,162
	2020	Rp	105.590.771.015,00	Rp	620.407.533.334,00	0,170
	2021	Rp	110.883.887.168,00	Rp	667.408.015.354,00	0,166
PSSI	2022	Rp	181.429.256.697,00	Rp	772.666.449.902,00	0,235
	2023	Rp	74.520.364.386,00	Rp	689.803.373.589,00	0,108
	2019	Rp	1.793.934.043,00	Rp	1.635.154.338,00	1,097
	2020	Rp	1.777.594.073,00	Rp	1.110.213.240,00	1,601
TPMA	2021	Rp	1.717.108.630,00	Rp	1.206.842.636,00	1,423
	2022	Rp	1.567.490.086,00	Rp	905.892.550,00	1,730
	2023	Rp	1.727.957.985,00	Rp	976.451.944,00	1,770
	2019	Rp	218.241.812.690	Rp	3.047.351.957.100	0,072
PSSI	2020	Rp	361.521.822.375	Rp	2.762.127.175.500	0,131
	2021	Rp	85.486.649.175	Rp	2.534.732.103.865	0,034
	2022	Rp	249.548.844.348	Rp	3.319.144.600.432	0,075
	2023	Rp	192.370.097.600	Rp	3.808.801.999.176	0,051
TCPI	2019	Rp	518.920.511.560	Rp	2.000.483.506.010	0,259
	2020	Rp	382.977.286.650	Rp	2.081.398.783.275	0,184
	2021	Rp	460.479.921.688	Rp	2.300.678.624.350	0,200
	2022	Rp	417.401.760.548	Rp	2.821.424.805.757	0,148
TEBE	2023	Rp	357.986.544.248	Rp	3.142.890.258.688	0,114
	2019	Rp	77.067.628.440	Rp	504.525.572.100	0,153
	2020	Rp	36.664.275.375	Rp	500.961.935.250	0,073
	2021	Rp	32.714.536.300	Rp	525.882.853.480	0,062
TEBE	2022	Rp	33.489.867.479	Rp	656.039.001.249	0,051
	2023	Rp	56.117.831.928	Rp	581.910.650.208	0,096
	2019	Rp	976.285,00	Rp	3.077.535,00	0,317
	2020	Rp	936.229,00	Rp	2.752.211,00	0,340
TPMA	2021	Rp	954.930,00	Rp	2.847.296,00	0,335
	2022	Rp	853.876,00	Rp	2.809.869,00	0,306
	2023	Rp	889.080,00	Rp	3.509.253,00	0,253
	2019	Rp	120.301.292,00	Rp	898.913.890,00	0,134
TEBE	2020	Rp	78.671.662,00	Rp	834.038.915,00	0,094
	2021	Rp	116.195.378,00	Rp	989.060.914,00	0,117
	2022	Rp	235.004.803,00	Rp	1.302.505.387,00	0,180
	2023	Rp	47.641.053,00	Rp	1.150.900.654,00	0,041
TPMA	2019	Rp	315.293.065.120	Rp	1.559.551.902.480	0,202
	2020	Rp	237.633.697.350	Rp	1.470.815.959.725	0,162
	2021	Rp	216.040.664.909	Rp	1.416.289.286.220	0,153
	2022	Rp	250.565.947.884	Rp	1.689.220.641.764	0,148
	2023	Rp	245.680.429.272	Rp	1.809.944.816.648	0,136

Lampiran 9. Perhitungan X4 Metode Taffler T-score

Nama Perusahaan	Tahun	PENJUALAN	TOTAL SET	X4
ADRO	2019	Rp 48.296.441.380	Rp 100.822.956.850	0,479
	2020	Rp 35.931.385.350	Rp 90.458.698.050	0,397
	2021	Rp 56.972.093.142	Rp 108.257.989.784	0,526
	2022	Rp 127.458.838.669	Rp 169.616.471.417	0,751
	2023	Rp 100.474.643.296	Rp 161.447.312.776	0,622
ARII	2019	Rp 877.357.910	Rp 5.084.409.440	0,173
	2020	Rp 597.618.000	Rp 5.114.368.350	0,117
	2021	Rp 1.645.843.536	Rp 5.271.967.430	0,312
	2022	Rp 3.869.527.111	Rp 7.058.892.975	0,548
	2023	Rp 4.325.868.344	Rp 8.135.704.000	0,532
BSSR	2019	Rp 5.840.682.249.270	Rp 3.502.004.014.520	1,668
	2020	Rp 4.698.501.703.875	Rp 3.732.897.911.400	1,259
	2021	Rp 9.865.195.415.365	Rp 6.211.543.780.834	1,588
	2022	Rp 16.187.448.556.584	Rp 6.368.399.213.925	2,542
	2023	Rp 17.486.933.118.096	Rp 6.296.735.697.368	2,777
BUMI	2019	Rp 15.542.555.653.460	Rp 50.458.925.350.680	0,308
	2020	Rp 11.204.435.927.475	Rp 48.599.700.885.225	0,231
	2021	Rp 14.386.190.940.275	Rp 60.269.220.783.934	0,239
	2022	Rp 28.788.987.331.637	Rp 70.601.466.869.339	0,408
	2023	Rp 25.898.090.161.240	Rp 64.788.734.033.856	0,400
BYAN	2019	Rp 19.440.509.980.980	Rp 17.854.220.518.310	1,089
	2020	Rp 19.775.730.573.900	Rp 22.959.602.186.850	0,861
	2021	Rp 40.698.326.152.632	Rp 34.726.639.253.379	1,172
	2022	Rp 73.992.678.279.778	Rp 62.066.013.405.315	1,192
	2023	Rp 55.210.483.212.648	Rp 53.097.634.283.456	1,040
DSSA	2019	Rp 23.279.822.872.570	Rp 51.954.053.704.080	0,448
	2020	Rp 21.366.291.164.400	Rp 41.110.769.066.850	0,520
	2021	Rp 30.891.618.583.472	Rp 42.950.727.299.224	0,719
	2022	Rp 93.695.500.308.338	Rp 101.168.891.290.058	0,926
	2023	Rp 77.305.998.128.352	Rp 47.223.416.830.072	1,637
GEMS	2019	Rp 15.471.273.490.970	Rp 10.905.626.952.990	1,419
	2020	Rp 15.045.485.006.475	Rp 11.534.449.318.875	1,304
	2021	Rp 22.629.971.789.979	Rp 11.829.385.364.053	1,913
	2022	Rp 45.933.960.023.593	Rp 17.761.664.513.724	2,586
	2023	Rp 44.734.708.339.136	Rp 20.226.443.248.920	2,212
GTBO	2019	Rp 228.194.585.520	Rp 769.057.217.280	0,297
	2020	Rp 58.750.966.565	Rp 814.541.013.540	0,072
	2021	Rp 775.021.835.539	Rp 971.207.179.406	0,798
	2022	Rp 906.414.629.080	Rp 1.062.644.442.904	0,853
	2023	Rp 3.668.391.645.930	Rp 6.244.617.297.380	0,587
HRUM	2020	Rp 2.237.084.991.225	Rp 7.059.103.911.800	0,316
	2021	Rp 4.796.888.482.073	Rp 12.480.489.037.558	0,384
	2022	Rp 14.227.710.953.145	Rp 20.116.894.920.736	0,707
	2023	Rp 14.267.821.561.440	Rp 25.175.980.471.872	0,567
	2019	Rp 38.873.989.587.400	Rp 50.517.798.018.050	0,770
INDY	2020	Rp 25.710.991.488.000	Rp 49.523.237.997.975	0,519
	2021	Rp 43.793.860.007.011	Rp 52.673.686.754.169	0,831
	2022	Rp 68.192.480.614.975	Rp 56.535.201.092.702	1,206
	2023	Rp 46.661.752.953.040	Rp 47.991.586.444.240	0,972
	2019	Rp 23.966.820.240	Rp 16.890.302.770	1,419
ITMG	2020	Rp 16.802.137.800	Rp 16.423.566.075	1,023
	2021	Rp 29.634.044.697	Rp 23.775.564.291	1,246
	2022	Rp 57.201.266.703	Rp 41.532.624.387	1,377
	2023	Rp 36.602.440.040	Rp 33.727.849.352	1,085
	2019	Rp 1.604.478.765.890	Rp 1.765.172.881.890	0,909
KKGI	2020	Rp 1.023.741.123.300	Rp 1.540.656.411.525	0,664
	2021	Rp 1.885.645.096.668	Rp 1.886.109.338.583	1,000
	2022	Rp 4.015.197.366.556	Rp 2.677.175.358.390	1,500
	2023	Rp 4.542.663.798.656	Rp 3.091.471.608.960	1,469
	2019	Rp 3.644.071.747.910	Rp 2.689.606.227.330	1,355
MBAP	2020	Rp 2.852.113.293.225	Rp 2.579.468.720.850	1,106
	2021	Rp 4.421.108.757.894	Rp 3.677.412.944.091	1,212
	2022	Rp 7.071.644.586.524	Rp 4.822.302.985.601	1,466
	2023	Rp 3.454.525.284.496	Rp 3.537.982.020.400	0,976
	2019	Rp 21.787.564,00	Rp 26.098.052,00	0,835
PTBA	2020	Rp 17.325.192,00	Rp 24.056.755,00	0,720
	2021	Rp 29.261.468,00	Rp 36.123.703,00	0,810
	2022	Rp 42.648.590,00	Rp 45.359.207,00	0,940
	2023	Rp 38.488.867,00	Rp 38.765.189,00	0,993
	2019	Rp 250.264.866.368,00	Rp 871.513.339.763,00	0,287
SMMT	2020	Rp 209.445.719.950,00	Rp 881.768.218.140,00	0,238
	2021	Rp 508.273.589.516,00	Rp 1.051.640.434.770,00	0,483
	2022	Rp 1.049.271.370.556,00	Rp 1.182.852.785.319,00	0,887
	2023	Rp 1.016.267.098.417,00	Rp 1.007.863.610.940,00	1,008
	2019	Rp 7.341.577.251.030	Rp 8.865.927.170.320	0,828
TOBA	2020	Rp 4.705.141.826.700	Rp 10.941.282.580.725	0,430
	2021	Rp 6.601.785.620.197	Rp 12.244.255.782.796	0,539
	2022	Rp 10.001.619.411.640	Rp 14.147.353.261.167	0,707
	2023	Rp 7.727.466.569.416	Rp 14.611.866.414.848	0,529
	2019	Rp 241.405.693.210	Rp 1.082.659.311.690	0,223
BBRM	2020	Rp 160.863.810.975	Rp 527.499.349.650	0,305
	2021	Rp 107.756.647.299	Rp 480.101.937.038	0,224
	2022	Rp 146.781.619.244	Rp 534.995.169.994	0,274
	2023	Rp 162.570.275.880	Rp 536.265.523.720	0,303
	2019	Rp 240.357.716.470,00	Rp 568.979.239.113,00	0,422
BESS	2020	Rp 295.532.059.811,00	Rp 620.407.533.334,00	0,476
	2021	Rp 404.097.297.862,00	Rp 667.408.015.354,00	0,605
	2022	Rp 406.469.609.954,00	Rp 772.666.449.902,00	0,526
	2023	Rp 363.741.176.938,00	Rp 689.803.373.589,00	0,527
	2019	Rp 1.220.774.774,00	Rp 1.635.154.338,00	0,747
CNKO	2020	Rp 884.575.360,00	Rp 1.110.213.240,00	0,797
	2021	Rp 980.326.231,00	Rp 1.206.842.636,00	0,812
	2022	Rp 1.375.279.833,00	Rp 905.892.550,00	1,518
	2023	Rp 1.741.978.238,00	Rp 976.451.944,00	1,784
	2019	Rp 1.087.436.646.560	Rp 3.047.351.957.100	0,357
MBSS	2020	Rp 777.680.657.775	Rp 2.762.127.175.500	0,282
	2021	Rp 1.047.417.842.777	Rp 2.534.732.103.865	0,413
	2022	Rp 1.390.211.803.006	Rp 3.319.144.600.432	0,419
	2023	Rp 974.087.446.728	Rp 3.808.801.999.176	0,256
	2019	Rp 1.052.290.990.410	Rp 2.000.483.506.010	0,526
PSSI	2020	Rp 968.932.351.800	Rp 2.081.398.783.275	0,466
	2021	Rp 1.551.520.394.774	Rp 2.300.678.624.350	0,674
	2022	Rp 1.876.401.608.424	Rp 2.821.424.805.757	0,665
	2023	Rp 1.578.465.930.312	Rp 3.142.890.258.688	0,502
	2019	Rp 43.230.989.230	Rp 504.525.572.100	0,086
PTIS	2020	Rp 173.464.620.525	Rp 500.961.935.250	0,346
	2021	Rp 179.855.650.967	Rp 525.882.853.480	0,342
	2022	Rp 288.822.764.562	Rp 656.039.001.248	0,440
	2023	Rp 215.576.064.472	Rp 581.910.650.208	0,370
	2019	Rp 2.319.911,00	Rp 3.077.535,00	0,754
TCPI	2020	Rp 1.672.368,00	Rp 2.752.211,00	0,608
	2021	Rp 1.670.829,00	Rp 2.847.296,00	0,587
	2022	Rp 1.758.131,00	Rp 2.809.869,00	0,626
	2023	Rp 1.825.584,00	Rp 3.509.253,00	0,520
	2019	Rp 379.904.123,00	Rp 898.913.890,00	0,429
TEBE	2020	Rp 197.952.877,00	Rp 834.038.915,00	0,237
	2021	Rp 448.008.428,00	Rp 989.060.914,00	0,453
	2022	Rp 781.793.751,00	Rp 1.302.505.387,00	0,600
	2023	Rp 632.232.808,00	Rp 1.150.900.654,00	0,549
	2019	Rp 666.210.985.330	Rp 1.559.551.902.480	0,427
TPMA	2020	Rp 563.623.344.900	Rp 1.470.815.959.725	0,383
	2021	Rp 599.528.958.034	Rp 1.416.289.286.220	0,423
	2022	Rp 987.931.969.600	Rp 1.689.220.641.764	0,585
	2023	Rp 1.026.433.615.512	Rp 1.809.944.816.648	0,567

Lampiran 10. Perhitungan dengan rumus Springate S-score

Nama Perusahaan	Tahun	X1	X2	X3	X4	Springate	Kondisi
ADRO	2019	0,122	0,091	0,535	0,479	0,567	TIDAK SEHAT
	2020	0,092	0,035	0,194	0,397	0,171	TIDAK SEHAT
	2021	0,195	0,195	1,092	0,526	1,310	SEHAT
	2022	0,266	0,413	1,829	0,751	2,449	SEHAT
ARII	2023	0,207	0,218	1,074	0,622	1,343	SEHAT
	2019	-0,543	-0,016	-0,022	0,173	-0,692	TIDAK SEHAT
	2020	-0,628	-0,050	-0,063	0,117	-0,889	TIDAK SEHAT
	2021	-0,255	0,015	0,032	0,312	-0,320	TIDAK SEHAT
BSSR	2022	-0,125	0,079	0,178	0,548	0,012	TIDAK SEHAT
	2023	-0,175	0,006	0,011	0,532	-0,367	TIDAK SEHAT
	2019	0,053	0,165	0,643	1,668	0,318	TIDAK SEHAT
	2020	0,133	0,155	0,671	1,259	0,552	TIDAK SEHAT
BUMI	2021	0,235	0,604	1,557	1,588	2,489	SEHAT
	2022	0,104	0,759	1,803	2,542	2,610	SEHAT
	2023	0,143	0,537	1,436	2,777	1,633	SEHAT
	2019	-0,199	-0,005	-0,016	0,308	-0,354	TIDAK SEHAT
BYAN	2020	-0,263	-0,094	-0,248	0,231	-0,816	TIDAK SEHAT
	2021	-0,498	0,069	0,101	0,239	-0,327	TIDAK SEHAT
	2022	-0,033	0,154	0,752	0,408	0,840	TIDAK SEHAT
	2023	-0,034	0,019	0,097	0,400	-0,076	TIDAK SEHAT
DSSA	2019	-0,048	0,244	0,536	1,089	0,893	SEHAT
	2020	0,329	0,263	1,802	0,861	1,900	SEHAT
	2021	0,397	0,665	3,593	1,172	4,477	SEHAT
	2022	0,144	0,743	1,608	1,192	3,022	SEHAT
GEMS	2023	0,163	0,472	1,220	1,040	1,945	SEHAT
	2019	0,053	0,036	0,199	0,448	-0,120	TIDAK SEHAT
	2020	0,138	-0,002	-0,007	0,520	-0,048	TIDAK SEHAT
	2021	0,157	0,125	0,125	0,719	0,710	TIDAK SEHAT
GTBO	2022	0,093	0,248	0,960	0,926	1,203	SEHAT
	2023	0,182	0,384	1,430	1,637	1,940	SEHAT
	2019	0,115	0,129	0,361	1,419	0,098	TIDAK SEHAT
	2020	0,095	0,156	0,385	1,304	0,263	TIDAK SEHAT
HRUM	2021	0,011	0,553	1,084	1,913	1,903	SEHAT
	2022	0,222	0,792	1,899	2,586	3,148	SEHAT
	2023	0,173	0,518	1,110	2,212	1,467	SEHAT
	2019	-0,037	-0,073	-1,065	0,297	-1,850	TIDAK SEHAT
INDY	2020	-0,034	-0,022	-0,348	0,000	-0,451	TIDAK SEHAT
	2021	-0,043	-0,004	-0,039	0,072	-0,082	TIDAK SEHAT
	2022	0,081	0,123	1,574	0,798	1,471	SEHAT
	2023	0,189	0,079	0,869	0,853	0,692	TIDAK SEHAT
ITMG	2019	0,575	0,057	0,820	0,587	0,967	SEHAT
	2020	0,451	0,129	2,592	0,316	2,336	SEHAT
	2021	0,191	0,145	1,583	0,384	1,533	SEHAT
	2022	0,230	0,372	2,116	0,707	2,493	SEHAT
KKGI	2023	0,107	0,160	1,024	0,567	1,050	SEHAT
	2019	0,199	0,015	0,076	0,770	-0,007	TIDAK SEHAT
	2020	0,196	-0,028	-0,140	0,519	-0,184	TIDAK SEHAT
	2021	0,259	0,135	0,442	0,831	0,641	TIDAK SEHAT
MBAP	2022	0,229	0,280	0,857	1,206	1,179	SEHAT
	2023	0,161	0,076	0,243	0,972	0,177	TIDAK SEHAT
	2019	0,195	0,154	0,797	1,419	0,632	TIDAK SEHAT
	2020	0,184	0,063	0,350	1,023	0,205	TIDAK SEHAT
PTBA	2021	0,374	0,371	1,703	1,246	2,150	SEHAT
	2022	0,501	0,582	2,638	1,377	3,493	SEHAT
	2023	0,450	0,293	2,189	1,085	2,374	SEHAT
	2019	0,167	0,064	0,445	0,909	0,299	TIDAK SEHAT
SMMT	2020	0,205	-0,086	-0,863	0,664	-0,888	TIDAK SEHAT
	2021	0,223	0,256	1,636	1,000	1,695	SEHAT
	2022	0,336	0,339	1,610	1,500	1,849	SEHAT
	2023	0,337	0,194	0,800	1,469	0,883	SEHAT
TOBA	2019	0,496	0,252	1,321	1,355	1,614	SEHAT
	2020	0,506	0,205	1,114	1,106	1,443	SEHAT
	2021	0,609	0,498	2,447	1,202	3,290	SEHAT
	2022	0,696	0,749	4,710	1,466	5,539	SEHAT
BBRM	2023	0,604	0,133	0,609	0,976	1,042	SEHAT
	2019	0,268	0,209	1,163	0,835	1,351	SEHAT
	2020	0,187	0,134	0,835	0,720	0,867	SEHAT
	2021	0,287	0,281	0,810	1,774	1,774	SEHAT
CNKO	2022	0,303	0,357	1,514	0,940	2,031	SEHAT
	2023	0,134	0,210	0,818	0,993	0,925	SEHAT
	2019	-0,062	0,007	0,045	0,287	-0,127	TIDAK SEHAT
	2020	-0,075	-0,027	-0,146	0,238	-0,352	TIDAK SEHAT
MBSS	2021	0,120	0,245	2,306	0,483	2,205	SEHAT
	2022	0,010	0,392	2,895	0,887	2,770	SEHAT
	2023	0,013	0,278	1,598	1,008	1,518	SEHAT
	2019	-0,012	0,099	0,684	0,828	0,412	TIDAK SEHAT
PSSI	2020	-0,033	0,055	0,438	0,430	0,252	TIDAK SEHAT
	2021	0,104	0,100	0,720	0,539	0,674	TIDAK SEHAT
	2022	0,144	0,127	0,869	0,707	0,829	TIDAK SEHAT
	2023	0,094	0,034	0,221	0,529	0,135	TIDAK SEHAT
PTIS	2019	0,007	0,056	-0,533	0,223	0,620	TIDAK SEHAT
	2020	-0,390	-0,297	-0,490	0,305	-1,759	TIDAK SEHAT
	2021	-0,284	0,022	0,041	0,224	-0,288	TIDAK SEHAT
	2022	0,123	0,024	0,162	0,274	0,198	TIDAK SEHAT
TEBE	2023	0,177	0,119	1,016	0,303	1,097	SEHAT
	2019	-0,124	0,023	0,142	0,422	-0,132	TIDAK SEHAT
	2020	-0,009	0,088	0,518	0,475	0,412	TIDAK SEHAT
	2021	0,040	0,173	1,042	0,605	1,018	SEHAT
TPMA	2022	0,042	0,076	0,324	0,526	0,280	TIDAK SEHAT
	2023	0,137	0,118	1,088	0,527	1,011	SEHAT
	2019	-0,603	0,071	0,065	0,747	-0,659	TIDAK SEHAT
	2020	-1,221	-0,240	-0,150	0,797	-2,412	TIDAK SEHAT
TCPI	2021	-0,961	-0,061	-0,043	0,812	-1,530	TIDAK SEHAT
	2022	-1,336	-0,046	-0,027	1,518	-2,142	TIDAK SEHAT
	2023	-1,280	-0,035	-0,020	1,784	-2,153	TIDAK SEHAT
	2019	0,194	0,008	0,116	0,357	0,158	TIDAK SEHAT
PSSI	2020	0,145	-0,077	-0,587	0,282	-0,587	TIDAK SEHAT
	2021	0,217	0,068	2,027	0,413	1,605	SEHAT
	2022	0,455	0,131	1,757	0,419	1,863	SEHAT
	2023	0,605	0,099	1,974	0,256	2,128	SEHAT
TCPI	2019	-0,083	0,088	0,339	0,526	0,198	TIDAK SEHAT
	2020	0,017	0,048	0,262	0,466	0,151	TIDAK SEHAT
	2021	0,114	0,171	0,859	0,674	0,940	SEHAT
	2022	0,180	0,265	1,800	0,665	1,921	SEHAT
TEBE	2023	0,350	0,228	2,012	0,502	2,188	SEHAT
	2019	-0,006	0,007	0,049	0,086	0,013	TIDAK SEHAT
	2020	0,119	0,000	0,006	0,346	-0,012	TIDAK SEHAT
	2021	0,161	0,001	0,018	0,342	0,044	TIDAK SEHAT
TPMA	2022	0,176	0,014	0,270	0,440	0,226	TIDAK SEHAT
	2023	0,199	0,022	0,230	0,370	0,276	TIDAK SEHAT
	2019	-0,001	0,088	0,277	0,754	0,150	TIDAK SEHAT
	2020	-0,060	0,021	0,062	0,608	-0,200	TIDAK SEHAT
TEBE	2021	-0,068	0,030	0,089	0,587	-0,154	TIDAK SEHAT
	2022	-0,056	0,042	0,136	0,525	-0,089	TIDAK SEHAT
	2023	-0,025	0,054	0,213	0,520	0,073	TIDAK SEHAT
	2019	0,046	0,071	0,529	0,423	0,445	TIDAK SEHAT
TPMA	2020	0,005	-0,002	-0,026	0,237	-0,113	TIDAK SEHAT
	2021	0,177	0,205	1,746	0,453	1,783	SEHAT
	2022	0,168	0,325	1,800	0,600	2,119	SEHAT
	2023	0,350	0,259	6,254	0,549	5,064	SEHAT
TPMA	2019	-0,032	0,079	0,390	0,427	0,296	TIDAK SEHAT
	2020	0,015	0,025	0,153	0,383	0,040	TIDAK SEHAT
	2021	0,056	0,045	0,295	0,423	0,221	TIDAK SEHAT
	2022	0,098	0,139	0,945	0,585	0,917	SEHAT
	2023	0,105	0,174	1,286	0,567	1,740	SEHAT

Lampiran 11. Perhitungan dengan rumus Taffler T-score

Nama Perusahaan	Tahun	X1	X2	X3	X4	Taffler	Kondisi
ADRO	2019	0,535	1,712	0,171	0,479	0,61	SEHAT
	2020	0,194	1,512	0,179	0,397	0,40	SEHAT
	2021	1,092	2,084	0,179	0,526	0,97	SEHAT
	2022	1,829	2,173	0,227	0,751	1,41	SEHAT
	2023	1,074	2,015	0,204	0,622	0,97	SEHAT
ARII	2019	-0,022	0,241	0,715	0,173	0,18	TIDAK SEHAT
	2020	-0,063	0,208	0,793	0,117	0,16	TIDAK SEHAT
	2021	0,032	0,444	0,458	0,312	0,21	TIDAK SEHAT
	2022	0,178	0,721	0,448	0,548	0,36	SEHAT
	2023	0,011	0,697	0,577	0,532	0,29	SEHAT
BSSR	2019	0,643	1,207	0,256	1,668	0,81	SEHAT
	2020	0,671	1,577	0,231	1,259	0,80	SEHAT
	2021	1,557	1,602	0,390	1,588	1,36	SEHAT
	2022	1,803	1,245	0,423	2,542	1,60	SEHAT
	2023	1,436	1,379	0,376	2,777	1,45	SEHAT
BUMI	2019	-0,016	0,387	0,325	0,308	0,15	TIDAK SEHAT
	2020	-0,248	0,306	0,379	0,231	0,01	TIDAK SEHAT
	2021	0,101	0,270	0,681	0,239	0,24	SEHAT
	2022	0,752	0,837	0,206	0,408	0,61	SEHAT
	2023	0,027	0,831	0,202	0,400	0,26	SEHAT
BYAN	2019	0,536	0,894	0,455	1,089	0,66	SEHAT
	2020	1,802	3,250	0,146	0,861	1,54	SEHAT
	2021	3,593	3,131	0,186	1,172	2,53	SEHAT
	2022	1,608	1,311	0,464	1,192	1,30	SEHAT
	2023	1,220	1,420	0,389	1,040	1,07	SEHAT
DSSA	2019	0,199	1,297	0,179	0,448	0,38	SEHAT
	2020	-0,007	1,553	0,250	0,523	0,33	SEHAT
	2021	0,564	1,702	0,224	0,719	0,68	SEHAT
	2022	0,960	1,360	0,259	0,926	0,88	SEHAT
	2023	1,430	1,675	0,270	1,637	1,29	SEHAT
GEMS	2019	0,361	1,323	0,356	1,419	0,65	SEHAT
	2020	0,385	1,234	0,406	1,304	0,65	SEHAT
	2021	1,084	1,021	0,513	1,913	1,11	SEHAT
	2022	1,899	1,530	0,419	2,586	1,69	SEHAT
	2023	1,110	1,368	0,469	2,212	1,20	SEHAT
GTBO	2019	-1,065	0,457	0,069	0,297	-0,45	TIDAK SEHAT
	2020	-0,348	0,466	0,063	0,000	-0,11	TIDAK SEHAT
	2021	-0,039	0,550	0,095	0,072	0,08	TIDAK SEHAT
	2022	1,574	2,023	0,079	0,798	1,24	SEHAT
	2023	0,869	3,062	0,092	0,853	1,01	SEHAT
HRUM	2019	0,820	9,222	0,070	0,587	1,74	SEHAT
	2020	2,592	10,074	0,050	0,316	2,74	SEHAT
	2021	1,583	3,073	0,092	0,384	1,32	SEHAT
	2022	2,116	2,301	0,177	0,707	1,57	SEHAT
	2023	1,023	1,583	0,157	0,567	0,88	SEHAT
INDY	2019	0,076	2,012	0,197	0,770	0,46	SEHAT
	2020	-0,140	1,970	0,203	0,519	0,31	SEHAT
	2021	0,442	1,842	0,308	0,831	0,66	SEHAT
	2022	0,857	1,699	0,328	1,206	0,93	SEHAT
	2023	0,243	1,511	0,316	0,972	0,54	SEHAT
ITMG	2019	0,719	2,012	0,193	1,419	0,95	SEHAT
	2020	0,350	2,026	0,179	1,023	0,64	SEHAT
	2021	1,703	2,709	0,219	1,246	1,49	SEHAT
	2022	2,638	3,259	0,222	1,377	2,08	SEHAT
	2023	2,189	4,350	0,134	1,085	1,92	SEHAT
KKGI	2019	0,445	2,174	0,143	0,909	0,69	SEHAT
	2020	-0,863	3,051	0,060	0,660	-0,11	TIDAK SEHAT
	2021	1,636	2,419	0,157	1,000	1,37	SEHAT
	2022	1,610	2,584	0,212	1,500	1,47	SEHAT
	2023	0,800	2,381	0,244	1,469	1,01	SEHAT
MBAP	2019	1,321	3,604	0,190	1,355	1,42	SEHAT
	2020	1,114	3,744	0,184	1,106	1,29	SEHAT
	2021	2,428	2,207	0,244	1,272	2,29	SEHAT
	2022	4,710	5,358	0,160	1,466	3,46	SEHAT
	2023	0,609	3,743	0,220	0,976	1,01	SEHAT
PTBA	2019	1,163	2,490	0,180	0,835	1,11	SEHAT
	2020	0,835	2,160	0,161	0,720	0,87	SEHAT
	2021	1,381	2,428	0,208	0,810	1,21	SEHAT
	2022	1,514	2,283	0,246	0,940	1,29	SEHAT
	2023	0,818	1,520	0,257	0,993	0,84	SEHAT
SMMT	2019	0,045	0,611	0,160	0,287	0,18	TIDAK SEHAT
	2020	-0,146	0,584	0,182	0,238	0,07	TIDAK SEHAT
	2021	2,306	2,127	0,106	0,483	1,60	SEHAT
	2022	2,895	1,074	0,135	0,887	1,84	SEHAT
	2023	1,593	1,077	0,174	1,008	1,18	SEHAT
TOBA	2019	0,684	0,920	0,145	0,828	0,64	SEHAT
	2020	0,438	0,732	0,125	0,430	0,42	SEHAT
	2021	0,720	1,740	0,140	0,539	0,72	SEHAT
	2022	0,869	1,981	0,147	0,707	0,86	SEHAT
	2023	0,221	1,603	0,127	0,529	0,44	SEHAT
BBRM	2019	-0,519	0,529	0,105	0,223	-0,11	TIDAK SEHAT
	2020	-0,490	0,354	0,605	0,305	-0,06	TIDAK SEHAT
	2021	0,041	0,486	0,553	0,224	0,22	TIDAK SEHAT
	2022	0,162	1,841	0,146	0,274	0,37	SEHAT
	2023	1,016	2,500	0,118	0,303	0,93	SEHAT
BESS	2019	0,142	0,231	0,162	0,422	0,20	TIDAK SEHAT
	2020	0,518	0,946	0,170	0,423	0,50	SEHAT
	2021	1,042	1,240	0,166	0,605	0,84	SEHAT
	2022	0,324	1,179	0,235	0,526	0,45	SEHAT
	2023	1,088	2,266	0,108	0,527	0,97	SEHAT
CNKO	2019	0,065	0,450	1,097	0,747	0,41	SEHAT
	2020	-0,150	0,237	1,601	0,797	0,37	SEHAT
	2021	-0,043	0,325	1,423	0,812	0,41	SEHAT
	2022	-0,027	0,228	1,730	1,518	0,57	SEHAT
	2023	-0,020	0,277	1,770	1,784	0,63	SEHAT
MBSS	2019	0,116	3,712	0,072	0,357	0,61	SEHAT
	2020	-0,587	2,109	0,131	0,282	0,03	TIDAK SEHAT
	2021	2,027	7,420	0,034	0,413	2,11	SEHAT
	2022	1,757	7,055	0,075	0,419	1,93	SEHAT
	2023	1,974	12,983	0,051	0,256	2,78	SEHAT
PSSI	2019	0,339	0,679	0,259	0,526	0,40	SEHAT
	2020	0,262	1,095	0,184	0,466	0,39	SEHAT
	2021	0,859	1,572	0,200	0,674	0,80	SEHAT
	2022	1,800	2,219	0,148	0,665	1,38	SEHAT
	2023	2,012	4,070	0,114	0,502	1,70	SEHAT
PTIS	2019	0,049	0,964	0,153	0,086	0,19	TIDAK SEHAT
	2020	0,006	2,625	0,073	0,346	0,41	SEHAT
	2021	0,018	3,588	0,062	0,342	0,54	SEHAT
	2022	0,270	4,439	0,051	0,440	0,80	SEHAT
	2023	0,230	3,067	0,096	0,370	0,60	SEHAT
TCPi	2019	0,277	0,997	0,317	0,754	0,45	SEHAT
	2020	0,062	0,824	0,340	0,608	0,30	SEHAT
	2021	0,089	0,799	0,335	0,587	0,31	SEHAT
	2022	0,136	0,818	0,306	0,626	0,33	SEHAT
	2023	0,213	0,901	0,253	0,520	0,36	SEHAT
TEBE	2019	0,529	1,343	0,134	0,423	0,55	SEHAT
	2020	-0,026	1,054	0,094	0,237	0,18	TIDAK SEHAT
	2021	1,746	2,507	0,117	0,453	1,34	SEHAT
	2022	1,800	1,934	0,180	0,600	1,33	SEHAT
	2023	6,254	9,445	0,041	0,549	4,64	SEHAT
TPMA	2019	0,390	0,842	0,202	0,427	0,42	SEHAT
	2020	0,153	1,094	0,162	0,383	0,31	SEHAT
	2021	0,295	1,368	0,143	0,423	0,43	SEHAT
	2022	0,945	1,661	0,148	0,585	0,84	SEHAT
	2023	1,286	1,777	0,136	0,567	1,03	SEHAT

Lampiran 12. Contoh Laporan neraca PT ADRO 2018/2019

PT ADARO ENERGY Tbk DAN ENTITAS ANAKNYA/AND ITS SUBSIDIARIES

Lampiran 1/1 Schedule

**LAPORAN POSISI KEUANGAN
KONSOLIDASIAN PADA TANGGAL
31 DESEMBER 2019 DAN 2018**
(Dinyatakan dalam ribuan Dolar AS,
kecuali nilai nominal dan data saham)

**CONSOLIDATED STATEMENTS OF
FINANCIAL POSITION
AS AT 31 DECEMBER 2019 AND 2018**
(Expressed in thousands of US Dollars,
except for par value and share data)

	Catatan/ Notes	2019	2018	
ASET				ASSETS
ASET LANCAR				CURRENT ASSETS
Kas dan setara kas	4	1,576,191	927,896	Cash and cash equivalents
Deposito berjangka yang dibatasi penggunaannya - bagian lancar	5	-	32	Restricted time deposits - current portion
Aset keuangan tersedia untuk dijual - bagian lancar	6	6,291	89,147	Available-for-sale financial assets - current portion
Piutang usaha	7	310,324	370,894	Trade receivables
Persediaan	9	121,030	112,005	Inventories
Pajak dibayar dimuka - bagian lancar	33a	38,654	72,295	Prepaid taxes - current portion
Pajak yang bisa dipulihkan kembali	33b	26,552	8,804	Recoverable taxes
Piutang lain-lain		9,118	6,036	Other receivables
Uang muka dan biaya dibayar dimuka - bagian lancar	8	21,418	12,488	Advances and prepayments - current portion
Aset lancar lain-lain		346	697	Other current assets
Total aset lancar		2,109,924	1,600,294	Total current assets
ASET TIDAK LANCAR				NON-CURRENT ASSETS
Deposito berjangka yang dibatasi penggunaannya - bagian tidak lancar	5	24,999	15,637	Restricted time deposits - non-current portion
Aset keuangan tersedia untuk dijual - bagian tidak lancar	6	45,351	14,897	Available-for-sale financial assets - non-current portion
Investasi pada ventura bersama	11	685,226	576,888	Investments in joint ventures
Pinjaman untuk pihak ketiga	39y	100,000	-	Loan to a third party
Pinjaman untuk pihak berelasi	34b	107,525	-	Loan to a related party
Uang muka dan biaya dibayar dimuka - bagian tidak lancar	8	35,395	56,521	Advances and prepayments - non-current portion
Pajak dibayar dimuka - bagian tidak lancar	33a	8,280	33,515	Prepaid taxes - non-current portion
Properti pertambangan	12	1,534,233	2,296,723	Mining properties
Aset tetap	10	1,722,413	1,609,701	Fixed assets
Goodwill	13	776,943	793,610	Goodwill
Aset pajak tangguhan	33e	33,212	27,336	Deferred tax assets
Aset tidak lancar lain-lain		33,604	35,633	Other non-current assets
Total aset tidak lancar		5,107,181	5,460,461	Total non-current assets
TOTAL ASET		7,217,105	7,060,755	TOTAL ASSETS

Catatan atas laporan keuangan konsolidasian terlampir merupakan bagian yang tidak terpisahkan dari laporan keuangan konsolidasian secara keseluruhan.

The accompanying notes to the consolidated financial statements form an integral part of these consolidated financial statements.

PT ADARO ENERGY Tbk DAN ENTITAS ANAKNYA/AND ITS SUBSIDIARIES

Lampiran 1/2 Schedule

LAPORAN POSISI KEUANGAN
KONSOLIDASIAN PADA TANGGAL
31 DESEMBER 2019 DAN 2018
(Dinyatakan dalam ribuan Dolar AS,
kecuali nilai nominal dan data saham)

CONSOLIDATED STATEMENTS OF
FINANCIAL POSITION
AS AT 31 DECEMBER 2019 AND 2018
(Expressed in thousands of US Dollars,
except for par value and share data)

	Catatan/ Notes	2019	2018	
LIABILITAS DAN EKUITAS				LIABILITIES AND EQUITY
LIABILITAS				LIABILITIES
LIABILITAS JANGKA PENDEK				CURRENT LIABILITIES
Utang usaha	14	335,521	341,766	Trade payables
Utang dividen	27	158,374	83,773	Dividends payable
Beban yang masih harus dibayar	16	60,713	52,207	Accrued expenses
Liabilitas imbalan kerja jangka pendek		4,997	3,272	Short-term employee benefits liabilities
Utang pajak	33c	58,643	82,948	Taxes payable
Utang royalti	15	39,641	8,516	Royalties payable
Bagian lancar atas pinjaman jangka panjang:				Current maturity of long-term borrowings:
- Utang sewa pembiayaan	19	42,883	37,404	Finance lease payables -
- Utang bank	20	506,060	182,671	Bank loans -
Instrumen keuangan derivatif - jangka pendek	18	5,936	17,590	Derivative financial instruments - current portion
Bagian lancar atas pinjaman dari pihak ketiga	17	1,926	-	Current maturity of loans from a third party
Utang lain-lain		17,907	6,296	Other liabilities
Total liabilitas jangka pendek		1,232,601	816,443	Total current liabilities
LIABILITAS JANGKA PANJANG				NON-CURRENT LIABILITIES
Pinjaman dari pihak ketiga setelah dikurangi bagian yang akan jatuh tempo dalam satu tahun	17	9,046	13,432	Loans from a third party, net of current maturities
Pinjaman jangka panjang setelah dikurangi bagian yang akan jatuh tempo dalam satu tahun:				Long-term borrowings, net of current maturities:
- Utang sewa pembiayaan	19	111,015	125,289	Finance lease payables -
- Utang bank	20	551,602	1,072,527	Bank loans -
Senior Notes	21	734,014	-	Senior Notes
Instrumen keuangan derivatif - jangka panjang	18	28,857	2,522	Derivative financial instruments - non-current portion
Liabilitas pajak tangguhan	33e	337,202	539,503	Deferred tax liabilities
Liabilitas imbalan pasca kerja	22	81,664	63,247	Post-employment benefits liabilities
Provisi pembongkaran, rehabilitasi, reklamasi dan penutupan tambang	23	147,709	125,100	Provision for decommissioning, mine rehabilitation, reclamation and closure
Total liabilitas jangka panjang		2,001,109	1,941,620	Total non-current liabilities
TOTAL LIABILITAS		3,233,710	2,758,063	TOTAL LIABILITIES

Catatan atas laporan keuangan konsolidasian terlampir merupakan bagian yang tidak terpisahkan dari laporan keuangan konsolidasian secara keseluruhan.

The accompanying notes to the consolidated financial statements form an integral part of these consolidated financial statements.

Lampiran 13. Contoh Laporan Laba Rugi PT ADRO 2018/2019

PT ADARO ENERGY Tbk DAN ENTITAS ANAKNYA/AND ITS SUBSIDIARIES

Lampiran 2/1 Schedule

**LAPORAN LABA RUGI DAN PENGHASILAN
KOMPREHENSIF LAIN KONSOLIDASIAN
UNTUK TAHUN-TAHUN YANG BERAKHIR
PADA TANGGAL 31 DESEMBER 2019 DAN 2018**
(Dinyatakan dalam ribuan Dolar AS,
kecuali laba bersih per saham dasar dan dilusian)

**CONSOLIDATED STATEMENTS OF PROFIT OR LOSS
AND OTHER COMPREHENSIVE INCOME
FOR THE YEARS ENDED
31 DECEMBER 2019 AND 2018**
(Expressed in thousands of US Dollars,
except for basic and diluted earnings per share)

	Catatan/ Notes	2019	2018	
Pendapatan usaha	29	3,457,154	3,619,751	Revenue
Beban pokok pendapatan	30	(2,492,563)	(2,409,544)	Cost of revenue
Laba bruto		964,591	1,210,207	Gross profit
Beban usaha	31	(232,585)	(193,998)	Operating expenses
Beban lain-lain, neto	32	(114,464)	(124,297)	Other expenses, net
Laba usaha		617,542	891,912	Operating income
Biaya keuangan		(66,336)	(65,084)	Finance costs
Penghasilan keuangan		28,256	23,606	Finance income
Bagian atas keuntungan/ (kerugian) neto ventura bersama	11	79,641	(29,436)	Share in net profit/(loss) of joint ventures
		41,561	(70,914)	
Laba sebelum pajak penghasilan		659,103	820,998	Profit before income tax
Beban pajak penghasilan	33d	(224,101)	(343,457)	Income tax expense
Laba tahun berjalan		435,002	477,541	Profit for the year
Penghasilan/(kerugian) komprehensif lain tahun berjalan:				Other comprehensive income/(loss) for the year:
Pos-pos yang akan direklasifikasi ke laba rugi:				Items that will be reclassified to profit or loss:
Perubahan nilai wajar aset keuangan tersedia untuk dijual	6	13,029	(10,954)	Changes in fair value of available-for-sale financial assets
Selisih kurs karena penjabaran laporan keuangan		4,885	(2,195)	Exchange difference due to financial statements translation
Bagian atas (kerugian)/penghasilan komprehensif lain dari entitas ventura bersama	11	(69,394)	13,687	Share of other comprehensive (loss)/income of joint ventures
Perubahan atas nilai wajar lindung nilai arus kas	18	10,543	(21,111)	Changes in value of cash flow hedges
Pajak penghasilan terkait pos-pos ini	33d	(4,744)	9,500	Income tax relating to these items
		(45,681)	(11,073)	
Pos-pos yang tidak akan direklasifikasi ke laba rugi:				Items that will not be reclassified to profit or loss:
Pengukuran kembali liabilitas imbalan pasca kerja		(2,749)	3,371	Remeasurement of post-employment benefits liabilities
Pajak penghasilan terkait pos ini	33d	936	(1,228)	Income tax relating to this item
		(1,813)	2,143	
		(47,494)	(8,930)	
Total penghasilan komprehensif tahun berjalan, setelah pajak		387,508	468,611	Total comprehensive income for the year, net of tax

Catatan atas laporan keuangan konsolidasian terlampir merupakan bagian yang tidak terpisahkan dari laporan keuangan konsolidasian secara keseluruhan.

The accompanying notes to the consolidated financial statements form an integral part of these consolidated financial statements.