**DAFTAR PUSTAKA**

Agustini, N. W., & Wirawati, N. G. P. (2019). Pengaruh Rasio Keuangan Pada Financial Distress Perusahaan Ritel Yang Terdaftar di Bursa Efek Indonesia (BEI). *E-Jurnal Akuntansi*, *26*, 251. https://doi.org/10.24843/eja.2019.v26.i01.p10

Arifin, Z. A. (2018). *Manajemen Keuangan*. Yogyakarta: Zahir Publishing.

Ayu, A. S., Handayani, S. R., & Topowijono, T. (2017). Pengaruh Likuiditas, Leverage, Profitabilitas, dan Ukuran Perusahaan Terhadap Financial Distress Studi pada Perusahaan Manufaktur Sektor Industri Dasar dan Kimia yang Terdaftar di Bursa Efek Indonesia tahun 2012-2015. *Jurnal Administrasi Bisnis*, *43*(1), 138–147. Retrieved from https://media.neliti.com/media/publications/87722-ID-pengaruh-likuditas-leverage-profitabilit.pdf

Brigham dan Houston. (2010). *Dasar-dasar Manajemen Keuangan* (Edisi Ke10). Jakarta: Salemba Empat.

Christine, D., Wijaya, J., Chandra, K., Pratiwi, M., Lubis, M. S., & Nasution, I. A. (2019). Pengaruh Profitabilitas, Leverage, Total Arus Kas dan Ukuran Perusahaan terhadap Financial Distress pada Perusahaan Property dan Real Estate yang Terdapat di Bursa Efek Indonesia Tahun 2014-2017. *Jesya (Jurnal Ekonomi & Ekonomi Syariah)*, *2*(2), 340–350. https://doi.org/10.36778/jesya.v2i2.102

Darmawan. (2020). *Dasar-Dasar Memahami Rasio Laporan Keuangan* (Pertama). Yogyakarta: UNY Press.

Darminto, P. D. (2019). *Analisis Laporan Keuangan Konsep dan Aplikasi* (Keempat). Yogyakarta: UPP STIM YKPN.

Ghozali. (2018). *Aplikasi Analisis Multivariate Dengan Program IBM SPSS 25* (9th ed.).

Giri, F. E. (2012). *Akuntansi Keuangan Menengah 1* (Pertama). Yogyakarta: UPP STIM YKPN.

Hanafi, M. M. (2014). *Manajemen Keuangan* (Ketujuh). Yogyakarta: BPFE-Yogyakarta.

Harahap, S. S. (2013). *Analisis Kritis Atas Laporan Keuangan*. Jakarta: Raja Grafindo Persada.

Idawati, W. (2020). Analisis Financial Distress : Operating Capacity, Leverage, Dan Profitabilitas. *Jurnal Akuntansi Bisnis*, *13*(1), 1–10. https://doi.org/10.30813/jab.v13i1.1914

Kasmir. (2018). *Analisis Laporan Keuangan*. Jakarta: PT. Raja Grafindo Persada.

Khasanah, S. N. U., Sukesti, F., & Nurcahyono, N. (2021). Pengaruh Operating Capacity, Sales Growth, Arus Kas dan Leverage Terhadap Financial Distress. *Sustainable*, *1*(2), 357. https://doi.org/10.30651/stb.v1i2.10907

Kristanti, T. F. (2019). *Financial Distress Teori Dan Perkembangannya Dalam Konteks Indonesia* (Pertama). Malang: Inteligensia Media.

Martono, & Harjito, A. D. (2007). *Manajemen Keuangan* (Keenam). Yogyakarta: EKONISIA.

Miswaty, M., & Novitasari, D. (2023). Pengaruh Operating Capacity, Sales Growth, dan Arus Kas Operasi Terhadap Financial Distress. *Jurnal Aplikasi Bisnis Dan Manajemen*, *9*(2), 583–594. https://doi.org/10.17358/jabm.9.2.583

Prasetyo, A. H. (2011). *Valuasi Perusahaan* (Pertama). Jakarta: PPM.

Prihadi, T. (2019). *Analisis Laporan Keuangan Konsep dan Aplikasi*. Jakarta: PT Gramedia Pustaka Utama.

Radiyansah, B. (2013). Pengaruh Efisiensi Operasi, Arus Kas Operasi, dan Pertumbuhan Perusahaan dalam memprediksi Financial Distress. *Akuntansi*. Retrieved from https://ejournal.unp.ac.id/students/index.php/akt/article/view/698/455

Sartono, A. (2010). *Manajemen Keuangan Teori dan Aplikasi* (Keempat). Yogyakarta: BPFE-Yogyakarta.

Simamora, S. R. R. A., & Sembiring, E. R. (2019). Pengaruh Intellectual Capital Dan Good Corporate Governance Terhadap Kinerja Keuangan Perusahaan Perbankan Yang Terdaftar Di Bursa Efek Indonesia Periode 2012-2015. *Jurnal Riset Akuntansi & Keuangan*, *4*(1), 111–136. https://doi.org/10.54367/jrak.v4i1.455

Stockbit.com. (2022). Ini Dia 11 Sektor Saham di Bursa Efek Indonesia dan Contohnya. Retrieved December 25, 2023, from Stockbit website: https://snips.stockbit.com/investasi/sektor-saham-idx-bursa-efek-indonesia

Sugiri, S., & Sumiyana. (2005). *Akuntansi Keuangan Menengah* (Revisian). Yogyakarta: Akademi Manajemen Perusahaan YKPN.

Sugiyono. (2019). *Metode Penelitian Kuantitatif dan Kualitatif dan R&D* (2nd ed.). Bandung: Alfabeta, CV.

Utami, E. R. (2016). Pengaruh Struktur Kepemilikan dan Arus Kas Terhadap Financial Distress. *Universitas Diponegoro Online Journal*. Retrieved from https://repofeb.undip.ac.id/id/eprint/3741

Widhiari, N. L. M. A., & Merkusiwati, N. K. L. A. (2015). Pengaruh Rasio Likuiditas, Leverage, Operating Capacity dan Sales Growth terhadap Financial Distress. *E-Jurnal Akuntansi*, *11*(2), 456–469. Retrieved from https://repositori.unud.ac.id/protected/storage/upload/repositori/70a4dd27b6f0237aeef9e0667a9ae426.pdf

Wulandari, & Fitria. (2019). Pengaruh Kinerja Keuangan, Pertumbuhan Penjualan, dan Ukuran Perusahaan Terhadap Financial Distress. *Jurnal Ilmu Dan Riset Akuntansi*, *8(1)*, 1–19. Retrieved from http://jurnalmahasiswa.stiesia.ac.id/index.php/jira/article/view/1834

Yustika, Y., Kirmizi, & Silfi, A. (2015). Pengaruh Likuiditas, Leverage, Profitabilitas, Operating Capacity dan Biaya Agensi Manajerial Terhadap Financial Distress (Studi Empiris pada Perusahaan Manufaktur yang Terdaftar di Bursa Efek Indonesia Tahun 2011-2013). *Jurnal Online Mahasiswa Fakultas Ekonomi Universitas Riau*, *2*(2), 1–15. Retrieved from https://www.neliti.com/publications/33964/pengaruh-likuiditas-leverage-profitabilitasoperating-capacity-dan-biaya-agensi-m

**LAMPIRAN**

**Lampiran 1**

**Tabel Populasi Penelitian**

**Perusahaan Sektor Industrial yang Terdaftar di BEI periode 2019-2023**

| **No.** | **Kode** | **Nama Perusahaan** | **Kriteria 1** | **Kriteria 2** | **Kriteria 3** | **Kriteria 4** |
| --- | --- | --- | --- | --- | --- | --- |
|  | AMFG | PT Asahimas Flat Glass Tbk. | √ | √ | √ | √ |
|  | AMIN | PT Ateliers Mecaniques D Indonesie Tbk. | √ | √ | √ | √ |
|  | APII | PT Arita Prima Indonesia Tbk. | √ | √ | √ | √ |
|  | ARKA | PT Arkha Jayanti Persada Tbk. | √ | X | √ | √ |
|  | ARNA | PT Arwana Citramulia Tbk. | √ | √ | √ | √ |
|  | ASGR | PT Astra Graphia Tbk. | √ | √ | √ | √ |
|  | ASII | PT Astra International Tbk. | √ | √ | √ | √ |
|  | BHIT | PT MNC Asia Holding Tbk. | √ | √ | √ | √ |
|  | BINO | PT Perma Plasindo Tbk. | √ | X | √ | X |
|  | BLUE | PT Berkah Prima Perkasa Tbk. | √ | X | √ | √ |
|  | BNBR | PT Bakrie & Brothers Tbk. | √ | √ | √ | √ |
|  | CAKK | PT Cahayaputra Asa Keramik Tbk. | √ | √ | √ | √ |
|  | CCSI | PT Communication Cable System Indonesia Tbk | √ | X | √ | √ |
|  | CRSN | PT Carsurin Tbk. | √ | X | √ | X |
|  | CTTH | PT Citatah Tbk. | √ | √ | √ | X |
|  | DYAN | PT Dyandra Media International Tbk. | √ | √ | √ | √ |
|  | FOLK | PT Multi Garam Utama Tbk. | √ | X | √ | X |
|  | GPSO | PT Geoprima Solusi Tbk. | √ | X | √ | X |
|  | HEXA | PT Hexindo Adiperkasa Tbk. | √ | √ | X | X |
|  | HOPE | PT Harapan Duta Pertiwi Tbk. | √ | X | √ | X |
|  | IBFN | PT Intan Baru Prana Tbk. | √ | √ | √ | X |
|  | ICON | PT Island Concepts Indonesia Tbk. | √ | √ | √ | X |
|  | IKAI | PT Intikeramik Alamasri Industri Tbk. | √ | √ | √ | √ |
|  | IKBI | PT Sumi Indo Kabel Tbk. | √ | √ | X | X |
|  | IMPC | PT Impack Pratama Industri Tbk. | √ | √ | √ | √ |
|  | INDX | PT Tanah Laut Tbk. | √ | √ | √ | √ |
|  | INTA | PT Intraco Penta Tbk. | √ | √ | √ | √ |
|  | JECC | PT Jembo Cable Company Tbk. | √ | √ | √ | √ |
|  | JTPE | PT Jasuindo Tiga Perkasa Tbk. | √ | √ | √ | √ |
|  | KBLI | PT KMI Wire & Cable Tbk. | √ | √ | √ | √ |
|  | KBLM | PT Kabelindo Murni Tbk. | √ | √ | √ | √ |
|  | KIAS | PT Keramika Indonesia Assosiasi Tbk. | √ | √ | √ | √ |
|  | KING | PT Hoffmen Cleanindo Tbk. | √ | X | √ | X |
|  | KOBX | PT Kobexindo Tractors Tbk. | √ | √ | X | X |
|  | KOIN | PT Kokoh Inti Arebama Tbk. | √ | √ | √ | √ |
|  | KONI | PT Perdana Bangun Pusaka Tbk. | √ | √ | √ | X |
|  | KPAL | PT Steadfast Marine Tbk. | √ | √ | √ | X |
|  | KRAH | PT Grand Kartech Tbk. | √ | √ | √ | X |
|  | KUAS | PT Ace Oldfields Tbk. | √ | X | √ | X |
|  | LABA | PT Ladangbaja Murni Tbk. | √ | X | √ | X |
|  | LION | PT Lion Metal Works Tbk. | √ | √ | √ | √ |
|  | MARK | PT Mark Dynamics Indonesia Tbk. | √ | √ | √ | √ |
|  | MDRN | PT Modern Internasional Tbk. | √ | √ | √ | X |
|  | MFMI | PT Multifiling Mitra Indonesia Tbk. | √ | √ | √ | √ |
|  | MLIA | PT Mulia Industrindo Tbk. | √ | √ | √ | √ |
|  | MUTU | PT Mutuagung Lestari Tbk. | √ | X | √ | X |
|  | NTBK | PT Nustama Berkah Tbk. | √ | X | √ | X |
|  | PADA | PT Personel Alih Daya Tbk. | √ | X | √ | X |
|  | PIPA | PT Multi Makmur Lemindo Tbk. | √ | X | √ | X |
|  | PTMP | PT Mitra Pack Tbk. | √ | X | √ | X |
|  | SCCO | PT Supreme Cable Manufacturing & Commerce Tbk.  | √ | √ | √ | √ |
|  | SINI | PT Singaraja Putra Tbk. | √ | X | √ | X |
|  | SKRN | PT Superkrane Mitra Utama Tbk. | √ | √ | √ | √ |
|  | SMIL | PT Sarana Mitra Luas Tbk. | √ | X | √ | X |
|  | SOSS | PT Shield On Service Tbk. | √ | √ | √ | X |
|  | SPTO | PT Surya Pertiwi Tbk. | √ | √ | √ | X |
|  | TIRA | PT Tira Austenite Tbk. | √ | √ | √ | X |
|  | TOTO | PT Surya Toto Indonesia Tbk. | √ | √ | √ | √ |
|  | TRIL | PT Triwira Insanlestari Tbk. | √ | √ | √ | X |
|  | UNTR | PT United Tractors Tbk. | √ | √ | √ | √ |
|  | VOKS | PT Voksel Electric Tbk. | √ | √ | √ | √ |
|  | WIDI | PT Widiant Jaya Krenindo Tbk. | √ | X | √ | X |
|  | ZBRA | PT Dosni Roha Indonesia Tbk. | √ | √ | √ | X |

**Keterangan:**

**Kriteria Pengambilan Sampel**

1. Perusahaan sektor industrial yang terdaftar di Bursa Efek Indonesia (BEI) periode 2019-2023.
2. Perusahaan sektor industrial yang listing sebelum tahun 2019-2023.
3. Perusahaan sektor industrial yang melaporkan laporan keuangan dalam mata uang rupiah.
4. Perusahaan sektor industrial yang menerbitkan laporan keuangan di Bursa Efek Indonesia (BEI) secara lengkap dari periode 2019-2023.

**Lampiran 2**

**Tabel Sampel Penelitian**

**Perusahaan Sektor Industrial yang Terdaftar di BEI periode 2019-2023**

| **No.** | **Kode Perusahaan**  | **Nama Perusahaan** |
| --- | --- | --- |
|  | AMFG | PT Asahimas Flat Glass Tbk. |
|  | AMIN | PT Ateliers Mecaniques D Indonesie Tbk. |
|  | APII | PT Arita Prima Indonesia Tbk. |
|  | ARNA | PT Arwana Citramulia Tbk. |
|  | ASGR | PT Astra Graphia Tbk. |
|  | ASII | PT Astra International Tbk. |
|  | BHIT | PT MNC Asia Holding Tbk. |
|  | BNBR | PT Bakrie & Brothers Tbk. |
|  | CAKK | PT Cahayaputra Asa Keramik Tbk. |
|  | DYAN | PT Dyandra Media International Tbk. |
|  | IKAI | PT Intikeramik Alamasri Industri Tbk. |
|  | IMPC | PT Impack Pratama Industri Tbk. |
|  | INDX | PT Tanah Laut Tbk. |
|  | INTA | PT Intraco Penta Tbk. |
|  | JECC | PT Jembo Cable Company Tbk. |
|  | JTPE | PT Jasuindo Tiga Perkasa Tbk. |
|  | KBLI | PT KMI Wire & Cable Tbk. |
|  | KBLM | PT Kabelindo Murni Tbk. |
|  | KIAS | PT Keramika Indonesia Assosiasi Tbk. |
|  | KOIN | PT Kokoh Inti Arebama Tbk. |
|  | LION | PT Lion Metal Works Tbk. |
|  | MARK | PT Mark Dynamics Indonesia Tbk. |
|  | MFMI | PT Multifiling Mitra Indonesia Tbk. |
|  | MLIA | PT Mulia Industrindo Tbk. |
|  | SCCO | PT Supreme Cable Manufacturing & Commerce Tbk.  |
|  | SKRN | PT Superkrane Mitra Utama Tbk. |
|  | TOTO | PT Surya Toto Indonesia Tbk. |
|  | UNTR | PT United Tractors Tbk. |
|  | VOKS | PT Voksel Electric Tbk. |

**Lampiran 3**

**Hasil Perhitungan *Financial Distress* (Y) Perusahaan Sektor Industrial yang Terdaftar di BEI periode 2019-2023**

| **No.**  | **Kode**  | **Tahun** | **(1,03.X1)** | **(3,07.X2)** | **(0,66.X3)** | **(0,4.X4)** | **S-score** | **Ket.** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | AMFG | 2019 | 0.007257576 | -0.051492972 | -0.048621852 | 0.261782344 | 0.168925096 | Bangkrut |
|  |  | 2020 | -0.061008589 | -0.112421905 | -0.127837383 | 0.189296726 | -0.111971151 | Bangkrut |
|  |  | 2021 | -0.002892941 | 0.201904107 | 0.129687934 | 0.258480692 | 0.587179792 | Bangkrut |
|  |  | 2022 | 0.056100466 | 0.337342201 | 0.188019647 | 0.298493381 | 0.879955695 | Tidak Bangkrut |
|  |  | 2023 | 0.113798725 | 0.352234943 | 0.259392003 | 0.315362213 | 1.040787884 | Tidak Bangkrut |
|  | AMIN | 2019 | 0.316256527 | -0.186986059 | 0.17604322 | 0.197825343 | 0.503139031 | Bangkrut |
|  |  | 2020 | 0.311440186 | -0.179045025 | 0.037378443 | 0.195186355 | 0.364959959 | Bangkrut |
|  |  | 2021 | 0.169650646 | -0.161881613 | -0.205242006 | 0.147856216 | -0.049616757 | Bangkrut |
|  |  | 2022 | 0.191282374 | -0.10814025 | 0.024598088 | 0.233947126 | 0.341687338 | Bangkrut |
|  |  | 2023 | 0.19493053 | -0.118715537 | 0.059603021 | 0.269722456 | 0.40554047 | Bangkrut  |
|  | APII | 2019 | 0.220026904 | -0.593899823 | 0.130909434 | 0.47840738 | 0.235443895 | Bangkrut |
|  |  | 2020 | 0.257132824 | -0.553205251 | 0.158178914 | 0.194393596 | 0.056500083 | Bangkrut |
|  |  | 2021 | 0.268944694 | 0.223715781 | 0.114158129 | 0.186196117 | 0.793014721 | Bangkrut |
|  |  | 2022 | 0.250799857 | 0.224764017 | 0.101280919 | 0.209091538 | 0.785936331 | Bangkrut |
|  |  | 2023 | 0.220805082 | 0.26755236 | 0.155225001 | 0.199162516 | 0.842744959 | Bangkrut |
|  | ARNA | 2019 | 0.23692827 | 0.493944691 | 0.342454418 | 0.658897281 | 1.73222466 | Tidak Bangkrut |
|  |  | 2020 | 0.303506101 | 0.654631416 | 0.460713827 | 0.449007434 | 1.867858778 | Tidak Bangkrut |
|  |  | 2021 | 0.388629665 | 0.8247471 | 0.665686124 | 0.455512317 | 2.334575206 | Tidak Bangkrut |
|  |  | 2022 | 0.365782343 | 0.88311966 | 0.717928387 | 0.401209318 | 2.368039708 | Tidak Bangkrut |
|  |  | 2023 | 0.351775965 | 0.669776368 | 0.582698474 | 0.373585168 | 1.977835975 | Tidak Bangkrut |
|  | ASGR | 2019 | 0.410113399 | -0.534119423 | 0.035108464 | 0.269538979 | 0.180641419 | Bangkrut |
|  |  | 2020 | 0.507957097 | -0.621685358 | 0.363112729 | 0.585254394 | 0.834638862 | Bangkrut |
|  |  | 2021 | 0.498491081 | -0.496063528 | 0.078400037 | 0.496988263 | 0.577815853 | Bangkrut |
|  |  | 2022 | 0.503270202 | -0.545273485 | 0.092941575 | 0.434705195 | 0.485643487 | Bangkrut |
|  |  | 2023 | 0.5061128 | -0.536924697 | 0.165521068 | 0.442662534 | 0.577371705 | Bangkrut |
|  | ASII | 2019 | 0.085149024 | -0.224930504 | 0.22484184 | 0.110858575 | 0.195918935 | Bangkrut |
|  |  | 2020 | 0.141835406 | -0.218873989 | 0.167363302 | 0.207030689 | 0.297355408 | Bangkrut |
|  |  | 2021 | 4.202997624 | -0.21265361 | 0.205737247 | 0.254264098 | 4.450345359 | Tidak Bangkrut |
|  |  | 2022 | 0.151074408 | -0.205750175 | 0.279009715 | 0.291682737 | 0.516016685 | Bangkrut |
|  |  | 2023 | 0.09236244 | -0.202862373 | 0.28891827 | 0.284119288 | 0.462537625 | Bangkrut |
|  | BHIT | 2019 | 0.023494266 | -0.174724399 | 0.104178471 | 0.090101805 | 0.043050143 | Bangkrut |
|  |  | 2020 | 0.012922526 | -0.193623583 | 0.071049589 | 0.099490149 | -0.010161319 | Bangkrut |
|  |  | 2021 | 0.03297467 | -0.192991719 | 0.09430171 | 0.112665402 | 0.046950063 | Bangkrut |
|  |  | 2022 | 0.045836456 | -0.183197995 | 0.106339454 | 0.104681599 | 0.073659514 | Bangkrut |
|  |  | 2023 | 0.069420866 | -0.123861204 | 0.041852988 | 0.088968825 | 0.076381475 | Bangkrut |
|  | BNBR | 2019 | 0.010322488 | 0.029422723 | 0.052343061 | 0.350852978 | 0.44294125 | Bangkrut |
|  |  | 2020 | -0.09229698 | -0.061239451 | -0.051632517 | 0.07018252 | -0.134986428 | Bangkrut |
|  |  | 2021 | -0.092220722 | 0.004174506 | 0.0057391 | 0.062908818 | -0.019398298 | Bangkrut |
|  |  | 2022 | -0.061279926 | 0.040772888 | 0.01522391 | 0.083072383 | 0.077789255 | Bangkrut |
|  |  | 2023 | -0.001785512 | 0.150573222 | 0.05304026 | 0.211754017 | 0.413581987 | Bangkrut |
|  | CAKK | 2019 | 0.098889694 | -0.185029057 | 0.033642838 | 0.081597411 | 0.029100886 | Bangkrut |
|  |  | 2020 | 0.120798219 | -0.153077052 | 0.028802622 | 0.244591229 | 0.241115018 | Bangkrut |
|  |  | 2021 | 0.046615316 | -0.112739134 | 0.139199841 | 0.24517264 | 0.318248663 | Bangkrut |
|  |  | 2022 | -0.085508535 | 0.06304758 | 0.053688163 | 0.201072851 | 0.232300059 | Bangkrut |
|  |  | 2023 | -0.110410162 | -0.162912043 | -0.115595732 | 0.179077849 | -0.209840088 | Bangkrut |
|  | DYAN | 2019 | 0.120372782 | 0.109360123 | 0.081100923 | 0.220277934 | 0.531111762 | Bangkrut |
|  |  | 2020 | -0.021325593 | -0.557172194 | -0.551447413 | 0.108953428 | -1.020991772 | Bangkrut |
|  |  | 2021 | -0.062572296 | -0.239822051 | -0.171429484 | 0.235031797 | -0.238792034 | Bangkrut |
|  |  | 2022 | 0.050307763 | 0.265963331 | 0.068958875 | 0.444893556 | 0.830123525 | Bangkrut |
|  |  | 2023 | 0.09697507 | 0.220306353 | 0.093314864 | 0.441699812 | 0.852296099 | Bangkrut |
|  | IKAI | 2019 | -0.037985752 | -0.127631744 | -0.287906259 | 0.239213154 | -0.214310601 | Bangkrut |
|  |  | 2020 | -0.052264695 | -0.123086793 | -0.355943774 | 0.028816292 | -0.50247897 | Bangkrut |
|  |  | 2021 | -0.019690161 | -0.03825473 | 0.19410949 | 0.05994521 | 0.196109809 | Bangkrut |
|  |  | 2022 | -0.224197466 | 0.001399625 | 0.055302953 | 0.07751949 | -0.089975398 | Bangkrut |
|  |  | 2023 | -0.09377894 | 0.000693295 | 0.046070518 | 0.070384758 | 0.023369631 | Bangkrut |
|  | IMPC | 2019 | 0.28646563 | -0.329311262 | 0.184566866 | 0.03141243 | 0.173133664 | Bangkrut |
|  |  | 2020 | 0.249603826 | -0.463445422 | 0.190374099 | 0.266584826 | 0.243117329 | Bangkrut |
|  |  | 2021 | 0.26799461 | -0.52102571 | 0.262960663 | 0.31171978 | 0.321649343 | Bangkrut |
|  |  | 2022 | 0.311252792 | -0.473647493 | 0.381417139 | 0.327022952 | 0.54604539 | Bangkrut |
|  |  | 2023 | 0.294044991 | -0.483537559 | 0.492004913 | 0.318082318 | 0.620594663 | Bangkrut |
|  | INDX | 2019 | 0.327114742 | -0.050988595 | 0.128859515 | 0.193628468 | 0.59861413 | Bangkrut |
|  |  | 2020 | 0.202836164 | -0.105938906 | 0.028609057 | 0.030639595 | 0.15614591 | Bangkrut |
|  |  | 2021 | 0.204658983 | -0.141959575 | -0.266887548 | 0.029463614 | -0.174724526 | Bangkrut |
|  |  | 2022 | 0.069589093 | -0.621730469 | -1.173109282 | 0.032824919 | -1.692425739 | Bangkrut |
|  |  | 2023 | -0.017800493 | -0.342627531 | -0.778552832 | 0.011162396 | -1.12781846 | Bangkrut |
|  | INTA | 2019 | 0.104736098 | -0.245577288 | -0.412798344 | 0.619688774 | 0.06604924 | Bangkrut |
|  |  | 2020 | -0.859000228 | -0.238827801 | 0.217653137 | 0.094321291 | -0.785853601 | Bangkrut |
|  |  | 2021 | -1.112081875 | -0.271015741 | -0.088965746 | 0.100100325 | -1.371963037 | Bangkrut |
|  |  | 2022 | -0.012761728 | -0.187981304 | -0.086929132 | 0.120970532 | -0.166701632 | Bangkrut |
|  |  | 2023 | 0.002140637 | -0.21805876 | 0.029444895 | 0.174837776 | -0.011635452 | Bangkrut |
|  | JECC | 2019 | 0.141359034 | -0.223159706 | 0.093050482 | 0.499067656 | 0.510317466 | Bangkrut |
|  |  | 2020 | 0.168160197 | -0.1852307 | 0.020503004 | 0.416131442 | 0.419563943 | Bangkrut |
|  |  | 2021 | 0.104815338 | -0.082081807 | -0.049800999 | 0.396413022 | 0.369345554 | Bangkrut |
|  |  | 2022 | 0.103654612 | 0.13931213 | 0.028502813 | 0.51213317 | 0.783602725 | Bangkrut |
|  |  | 2023 | 0.134010107 | 0.213031825 | 0.054308072 | 0.5711639 | 0.972513904 | Tidak Bangkrut |
|  | JTPE | 2019 | 0.225721956 | 0.68237951 | 0.423851941 | 0.506181611 | 1.838135018 | Tidak Bangkrut |
|  |  | 2020 | 0.261384175 | 0.333946148 | 0.264234066 | 0.37708456 | 1.236648949 | Tidak Bangkrut |
|  |  | 2021 | 0.27740779 | 0.34421571 | 0.340687754 | 0.354925992 | 1.317237246 | Tidak Bangkrut |
|  |  | 2022 | 0.234247694 | 0.38599227 | 0.245853095 | 0.364059456 | 1.230152515 | Tidak Bangkrut |
|  |  | 2023 | 0.217160055 | 0.535862216 | 0.289795682 | 0.51319807 | 1.55601603 | Tidak Bangkrut |
|  | KBLI | 2019 | 0.486186855 | -0.158375384 | 0.374601588 | 0.357859571 | 1.06027263 | Tidak Bangkrut |
|  |  | 2020 | 0.695104092 | -0.134363014 | -0.079568221 | 0.261666414 | 0.742839271 | Bangkrut |
|  |  | 2021 | 0.640553166 | -0.080135335 | 0.455801372 | 0.258581071 | 1.274800274 | Tidak Bangkrut |
|  |  | 2022 | 0.650000454 | -0.128373278 | 0.305525766 | 0.317638518 | 1.14479146 | Tidak Bangkrut |
|  |  | 2023 | 0.642687836 | -0.172699148 | 0.33408864 | 0.371483082 | 1.17556041 | Tidak Bangkrut |
|  | KBLM | 2019 | 0.691346345 | -0.111540876 | 0.076315685 | 0.238719836 | 0.89484099 | Tidak Bangkrut |
|  |  | 2020 | 1.119885424 | -0.130477502 | 0.035852672 | 0.344314314 | 1.369574908 | Tidak Bangkrut |
|  |  | 2021 | 0.100257889 | -0.08895345 | -0.027333524 | 0.32439741 | 0.308368325 | Bangkrut |
|  |  | 2022 | 0.131815678 | -0.083365316 | 0.093644404 | 0.40167347 | 0.543768236 | Bangkrut |
|  |  | 2023 | 0.151948459 | -0.083189592 | 0.089060626 | 0.412789532 | 0.570609025 | Bangkrut |
|  | KIAS | 2019 | 0.120043639 | -0.805806023 | -1.216379864 | 0.992140655 | -0.910001593 | Bangkrut |
|  |  | 2020 | 0.0866718 | -0.044798146 | -0.312395038 | 0.171207662 | -0.099313722 | Bangkrut |
|  |  | 2021 | 0.161183856 | 0.008008172 | 0.015691035 | 0.220980833 | 0.405863896 | Bangkrut |
|  |  | 2022 | 0.152926515 | 0.004988029 | 0.003880265 | 0.24316162 | 0.404956429 | Bangkrut |
|  |  | 2023 | 0.141142633 | -0.115113346 | -0.212136419 | 0.232395291 | 0.046288159 | Bangkrut |
|  | KOIN | 2019 | 0.061124965 | -0.848153972 | -0.018447523 | 0.216557754 | -0.588918776 | Bangkrut |
|  |  | 2020 | 0.117787517 | -0.681747876 | 0.065754001 | 0.856074805 | 0.357868447 | Bangkrut |
|  |  | 2021 | -0.010250968 | -0.658857326 | -0.017424993 | 0.968259893 | 0.281726606 | Bangkrut |
|  |  | 2022 | -0.120315481 | -0.801766106 | -0.04445637 | 1.133757849 | 0.167219892 | Bangkrut |
|  |  | 2023 | -0.167445152 | -0.909711312 | -0.046490979 | 1.262601044 | 0.138953601 | Bangkrut |
|  | LION | 2019 | 0.608311154 | 0.025760698 | 0.039297774 | 0.327743153 | 1.001112779 | Tidak Bangkrut |
|  |  | 2020 | 0.620307303 | -0.056864864 | -0.062192949 | 0.184340327 | 0.685589817 | Bangkrut |
|  |  | 2021 | 0.491468111 | -0.042106183 | -0.006224638 | 0.174884929 | 0.618022219 | Bangkrut |
|  |  | 2022 | 0.508729792 | 0.10906447 | 0.036557021 | 0.23889716 | 0.893248443 | Tidak Bangkrut |
|  |  | 2023 | 0.434131352 | 0.113314732 | 0.064801551 | 0.243447262 | 0.855694897 | Bangkrut |
|  | MARK | 2019 | 0.338857987 | 0.856365215 | 1.0420421 | 0.13284842 | 2.370113722 | Tidak Bangkrut |
|  |  | 2020 | 0.16156796 | 0.782911937 | 0.505008817 | 0.314252378 | 1.763741092 | Tidak Bangkrut |
|  |  | 2021 | 0.298193706 | 1.466168328 | 1.220209797 | 0.44267122 | 3.427243051 | Tidak Bangkrut |
|  |  | 2022 | 0.335362006 | 0.991717057 | 1.869823123 | 0.327703186 | 3.524605372 | Tidak Bangkrut |
|  |  | 2023 | 0.361243162 | 0.617503057 | 1.67164437 | 0.235181988 | 2.885572577 | Tidak Bangkrut |
|  | MFMI | 2019 | 0.627274468 | 1.018566335 | 0.567563315 | 0.270024767 | 2.483428885 | Tidak Bangkrut |
|  |  | 2020 | 0.531974613 | 0.326930197 | 0.082664933 | 0.166289478 | 1.107859221 | Tidak Bangkrut |
|  |  | 2021 | 0.257088991 | 0.488444389 | 0.678019687 | 0.169911406 | 1.593464473 | Tidak Bangkrut |
|  |  | 2022 | 0.217066668 | 0.435798135 | 0.356680694 | 0.173513972 | 1.183059469 | Tidak Bangkrut |
|  |  | 2023 | 0.248906446 | 0.447133865 | 0.435922273 | 0.192217262 | 1.324179846 | Tidak Bangkrut |
|  | MLIA | 2019 | 0.051904443 | -0.310368281 | 0.107778949 | 0.518202093 | 0.367517204 | Bangkrut |
|  |  | 2020 | 0.010798162 | -0.28436404 | 0.067772396 | 0.26011994 | 0.054326458 | Bangkrut  |
|  |  | 2021 | 0.084683851 | -0.287041819 | 0.461941796 | 0.290781513 | 0.550365341 | Bangkrut |
|  |  | 2022 | 0.177092186 | -0.275149395 | 0.622568305 | 0.298155062 | 0.822666158 | Bangkrut  |
|  |  | 2023 | 0.187846166 | -0.244418375 | 0.421651599 | 0.273978033 | 0.639057423 | Bangkrut |
|  | SCCO | 2019 | 0.311434888 | -0.174734871 | 0.224526799 | 0.163205073 | 0.524431889 | Bangkrut |
|  |  | 2020 | 0.394384965 | -0.188401105 | 0.475946465 | 0.493713274 | 1.175643599 | Tidak Bangkrut |
|  |  | 2021 | 0.32796271 | -0.148224917 | 0.448239162 | 0.427602724 | 1.055579679 | Tidak Bangkrut |
|  |  | 2022 | 0.310766927 | -0.140148819 | 0.285004797 | 0.426604007 | 0.882226912 | Tidak Bangkrut |
|  |  | 2023 | 0.324632144 | -0.134570362 | 0.558998949 | 0.437015685 | 1.186076416 |  Tidak Bangkrut |
|  | SKRN | 2019 | 0.042714713 | 0.439690419 | 0.423559903 | 0.281805 | 1.187770035 | Tidak Bangkrut |
|  |  | 2020 | 0.084882335 | 0.124601375 | 0.028656935 | 0.130467172 | 0.368607817 | Bangkrut |
|  |  | 2021 | 0.100181242 | 0.077040925 | -0.008645178 | 0.115799735 | 0.284376724 | Bangkrut |
|  |  | 2022 | 0.13781595 | 0.249783047 | 0.282135351 | 0.151483018 | 0.821217366 | Bangkrut |
|  |  | 2023 | -0.10139491 | 0.270944118 | 0.110984731 | 0.122144308 | 0.402678247 | Bangkrut |
|  | TOTO | 2019 | 0.34360129 | 0.1673954 | 0.334296787 | 0.302311081 | 1.147604558 | Tidak Bangkrut |
|  |  | 2020 | 0.343153132 | 0.016571835 | -0.003770856 | 0.208832397 | 0.564786508 | Bangkrut |
|  |  | 2021 | 0.339763408 | 0.178757802 | 0.318845286 | 0.226423917 | 1.063790413 | Tidak Bangkrut |
|  |  | 2022 | 0.343033658 | 0.365328701 | 0.611031219 | 0.252475193 | 1.571868771 | Tidak Bangkrut |
|  |  | 2023 | 0.31795609 | 0.269336669 | 0.502753894 | 0.255022506 | 1.345069159 | Tidak Bangkrut |
|  | UNTR | 2019 | 0.168186386 | -0.127117464 | 0.313474859 | 0.35267334 | 0.707217121 | Bangkrut |
|  |  | 2020 | 0.239972802 | -0.144433679 | 0.220942592 | 0.241868544 | 0.558350259 | Bangkrut |
|  |  | 2021 | 4.189693531 | -1.985998497 | 0.313064277 | 0.25653566 | 2.773294971 | Tidak Bangkrut |
|  |  | 2022 | 5.089308725 | -2.313224106 | 0.462311802 | 0.298493381 | 3.536889802 | Tidak Bangkrut |
|  |  | 2023 | 0.127436404 | -0.120846006 | 0.440431542 | 0.333921253 | 0.780943193 | Bangkrut |
|  | VOKS | 2019 | 0.338833376 | -0.235928588 | 0.133019051 | 0.261782344 | 0.497706183 | Bangkrut |
|  |  | 2020 | 0.350591606 | -0.225577709 | 0.004001581 | 0.251631278 | 0.380646756 | Bangkrut |
|  |  | 2021 | 0.132794269 | -0.196163164 | -0.094273471 | 0.236431721 | 0.078789355 | Bangkrut |
|  |  | 2022 | 0.028020329 | -0.249503573 | -0.080583472 | 0.394389438 | 0.092322722 | Bangkrut  |
|  |  | 2023 | 0.185481083 | -0.289212377 | 0.01384633 | 0.46592043 | 0.376035466 | Bangkrut |

**Lampiran 4**

**Hasil Perhitungan *Operating Capacity* (X1) Perusahaan Sektor Industrial yang Terdaftar di BEI periode 2019-2023**

$$Total Assets Turn Over \left(TATO\right)=\frac{Penjualan }{Total Aset }$$

| **No.**  | **Kode Perusahaan** | **Tahun** | **Penjualan** | **Total Aset** | ***Operating Capacity* (TATO)** |
| --- | --- | --- | --- | --- | --- |
|  | AMFG | 2019 | 4,289,776,000,000 | 8,738,055,000,000 | 0.490930304 |
|  |  | 2020 | 3,767,789,000,000 | 7,961,657,000,000 | 0.473241814 |
|  |  | 2021 | 4,784,139,000,000 | 7,403,476,000,000 | 0.64620173 |
|  |  | 2022 | 5,571,767,000,000 | 7,466,520,000,000 | 0.746233453 |
|  |  | 2023 | 5,913,565,000,000 | 7,500,664,000,000 | 0.788405533 |
|  | AMIN | 2019 | 264,872,722,193 | 404,722,056,954 | 0.654455861 |
|  |  | 2020 | 205,277,939,854 | 420,680,923,158 | 0.487965887 |
|  |  | 2021 | 129,512,982,726 | 350,375,482,319 | 0.369640541 |
|  |  | 2022 | 182,184,441,799 | 311,496,780,738 | 0.584867816 |
|  |  | 2023 | 217,836,301,363 | 323,052,524,991 | 0.674306141 |
|  | APII | 2019 | 242,761,693,999 | 490,860,655,716 | 0.494563358 |
|  |  | 2020 | 248,930,980,599 | 512,220,539,129 | 0.485983989 |
|  |  | 2021 | 252,448,924,906 | 542,329,085,650 | 0.465490293 |
|  |  | 2022 | 295,022,431,265 | 564,389,039,479 | 0.522728846 |
|  |  | 2023 | 299,110,900,336 | 600,737,338,506 | 0.497906291 |
|  | ARNA | 2019 | 2,151,801,131,686 | 1,799,137,069,343 | 1.196018451 |
|  |  | 2020 | 2,211,743,593,136 | 1,970,340,289,520 | 1.122518585 |
|  |  | 2021 | 2,554,880,982,584 | 2,243,523,072,803 | 1.138780792 |
|  |  | 2022 | 2,586,665,297,217 | 2,578,868,615,545 | 1.003023295 |
|  |  | 2023 | 2,447,442,037,597 | 2,620,491,657,384 | 0.933962919 |
|  | ASGR | 2019 | 4,771,800,000,000 | 2,896,840,000,000 | 1.647243203 |
|  |  | 2020 | 3,348,871,000,000 | 2,288,831,000,000 | 1.463135985 |
|  |  | 2021 | 3,299,105,000,000 | 2,655,278,000,000 | 1.242470657 |
|  |  | 2022 | 2,909,972,000,000 | 2,677,651,000,000 | 1.086762987 |
|  |  | 2023 | 2,968,952,000,000 | 2,682,813,000,000 | 1.106656334 |
|  | ASII | 2019 | 237,166,000,000,000 | 351,958,000,000,000 | 0.673847448 |
|  |  | 2020 | 175,046,000,000,000 | 338,203,000,000,000 | 0.517576722 |
|  |  | 2021 | 233,485,000,000,000 | 367,311,000,000,000 | 0.635660244 |
|  |  | 2022 | 301,379,000,000,000 | 413,297,000,000,000 | 0.729206842 |
|  |  | 2023 | 316,565,000,000,000 | 445,679,000,000,000 | 0.710298219 |
|  | BHIT | 2019 | 15,967,376,000,000 | 57,613,499,000,000 | 0.277146438 |
|  |  | 2020 | 14,795,285,000,000 | 59,484,422,000,000 | 0.248725372 |
|  |  | 2021 | 17,871,939,000,000 | 63,451,383,000,000 | 0.281663506 |
|  |  | 2022 | 18,083,695,000,000 | 69,099,804,000,000 | 0.261703998 |
|  |  | 2023 | 15,660,503,000,000 | 70,408,946,000,000 | 0.222422063 |
|  | BNBR | 2019 | 3,235,677,000,000 | 14,364,538,000,000 | 0.225254512 |
|  |  | 2020 | 2,454,947,000,000 | 13,991,786,000,000 | 0.1754563 |
|  |  | 2021 | 2,393,477,000,000 | 15,218,706,000,000 | 0.157272044 |
|  |  | 2022 | 3,626,696,000,000 | 17,462,824,000,000 | 0.207680957 |
|  |  | 2023 | 3,759,484, 000,00 | 7,101,606,000,000 | 0.529385043 |
|  | CAKK | 2019 | 289,383,952,242 | 329,920,473,799 | 0.877132446 |
|  |  | 2020 | 217,013,915,602 | 354,900,568,484 | 0.611478073 |
|  |  | 2021 | 270,440,097,202 | 441,223,941,897 | 0.612931601 |
|  |  | 2022 | 250,320,655,340 | 497,970,072,779 | 0.502682127 |
|  |  | 2023 | 208,635,900,710 | 466,022,798,636 | 0.447694622 |
|  | DYAN | 2019 | 980,145,831,991 | 1,215,041,391,937 | 0.806676907 |
|  |  | 2020 | 284,181,538,459 | 1,043,313,799,003 | 0.272383571 |
|  |  | 2021 | 563,839,174,231 | 959,596,413,102 | 0.587579493 |
|  |  | 2022 | 1,210,481,160,296 | 1,088,333,283,166 | 1.112233889 |
|  |  | 2023 | 1,329,121,702,300 | 1,203,642,535,212 | 1.104249529 |
|  | IKAI | 2019 | 84,524,926 | 1,357,533,090 | 0.062263621 |
|  |  | 2020 | 92,586,834 | 1,285,201,213 | 0.07204073 |
|  |  | 2021 | 186,298,319 | 1,243,123,975 | 0.149863025 |
|  |  | 2022 | 235,624,901 | 1,215,822,756 | 0.193798726 |
|  |  | 2023 | 208,393,296 | 1,184,309,226 | 0.175961895 |
|  | IMPC | 2019 | 1,495,759,701,262 | 2,501,132,856,219 | 0.598032886 |
|  |  | 2020 | 1,797,514,877,242 | 2,697,100,062,758 | 0.666462065 |
|  |  | 2021 | 2,227,367,211,794 | 2,858,166,022,131 | 0.779299451 |
|  |  | 2022 | 2,808,698,656,787 | 3,435,475,875,401 | 0.81755738 |
|  |  | 2023 | 2,860,388,195,952 | 3,597,041,437,692 | 0.795205795 |
|  | INDX | 2019 | 4,800,000,000 | 61,122,301,890 | 0.078531074 |
|  |  | 2020 | 4,800,000,000 | 62,664,013,184 | 0.076598988 |
|  |  | 2021 | 4,800,000,000 | 65,165,122,716 | 0.073659034 |
|  |  | 2022 | 4,800,000,000 | 58,492,146,988 | 0.082062298 |
|  |  | 2023 | 1,456,276,487 | 52,185,086,721 | 0.02790599 |
|  | INTA | 2019 | 1,962,957,000,000 | 4,055,100,000,000 | 0.48407117 |
|  |  | 2020 | 681,103,000,000 | 2,880,438,000,000 | 0.236458136 |
|  |  | 2021 | 611,377,000,000 | 2,443,057,000,000 | 0.250250813 |
|  |  | 2022 | 661,309,000,000 | 2,186,678,000,000 | 0.302426329 |
|  |  | 2023 | 1,081,793,000,000 | 2,474,964,000,000 | 0.437094439 |
|  | JECC | 2019 | 2,926,098,892 | 1,888,753,850 | 1.549221934 |
|  |  | 2020 | 1,575,004,597 | 1,513,949,141 | 1.040328604 |
|  |  | 2021 | 1,721,401,131 | 1,736,977,382 | 0.991032554 |
|  |  | 2022 | 2,816,473,345 | 2,199,797,641 | 1.280332924 |
|  |  | 2023 | 3,087,562,665 | 2,162,295,387 | 1.42790975 |
|  | JTPE | 2019 | 1,438,183,885,309 | 1,152,696,526,641 | 1.247669141 |
|  |  | 2020 | 978,625,887,145 | 1,038,097,010,616 | 0.942711401 |
|  |  | 2021 | 1,075,949,119,283 | 1,212,589,824,191 | 0.887314983 |
|  |  | 2022 | 1,423,142,732,743 | 1,563,637,707,080 | 0.91014864 |
|  |  | 2023 | 2,296,271,601,062 | 1,789,774,127,224 | 1.282995193 |
|  | KBLI | 2019 | 4,500,555,248,155 | 3,556,474,711,037 | 1.265454028 |
|  |  | 2020 | 1,968,859,464,809 | 3,009,724,379,487 | 0.654166035 |
|  |  | 2021 | 1,761,740,449,027 | 2,725,242,711,423 | 0.646452678 |
|  |  | 2022 | 2,221,091,331,884 | 2,797,005,026,270 | 0.794096296 |
|  |  | 2023 | 2,764,212,244,707 | 2,976,407,140,255 | 0.928707705 |
|  | KBLM | 2019 | 1,149,120,504,681 | 1,284,437,358,420 | 0.894648927 |
|  |  | 2020 | 883,822,892,518 | 1,026,762,882,496 | 0.860785784 |
|  |  | 2021 | 1,214,204,113,826 | 1,497,181,021,456 | 0.810993525 |
|  |  | 2022 | 1,514,907,831,143 | 1,508,596,356,369 | 1.004183674 |
|  |  | 2023 | 1,648,518,772,825 | 1,597,442,418,776 | 1.031973831 |
|  | KIAS | 2019 | 735,066,462,915 | 1,231,680,564,971 | 0.596799595 |
|  |  | 2020 | 437,171,365,385 | 1,021,382,709,421 | 0.428019156 |
|  |  | 2021 | 552,465,600.18 | 1,000,024,467,440 | 0.000552452 |
|  |  | 2022 | 647,952,496,309 | 1,065,879,552,778 | 0.607904049 |
|  |  | 2023 | 562,620,703,597 | 968,385,722,136 | 0.580988227 |
|  | KOIN | 2019 | 1,618,048,001,660 | 652,346,214,573 | 2.480351638 |
|  |  | 2020 | 1,446,474,839,632 | 675,863,759,206 | 2.140187012 |
|  |  | 2021 | 2,581,646,425,587 | 1,066,509,702,250 | 2.420649733 |
|  |  | 2022 | 3,111,392,892,032 | 1,097,727,489,194 | 2.834394622 |
|  |  | 2023 | 3,195,794,938,533 | 1,012,448,058,425 | 3.15650261 |
|  | LION | 2019 | 372,489,022,928 | 688,017,892,312 | 0.541394384 |
|  |  | 2020 | 298,552,920,579 | 647,829,858,922 | 0.460850818 |
|  |  | 2021 | 300,280,285,514 | 686,806,547,986 | 0.437212322 |
|  |  | 2022 | 408,811,497,547 | 684,497,878,481 | 0.597242899 |
|  |  | 2023 | 452,134,429,435 | 742,886,859,560 | 0.608618154 |
|  | MARK | 2019 | 361,544,998,431 | 441,254,067,741 | 0.819357882 |
|  |  | 2020 | 565,439,688,892 | 719,726,855,599 | 0.785630944 |
|  |  | 2021 | 1,193,506,756,539 | 1,078,458,868,349 | 1.106678049 |
|  |  | 2022 | 823,656,040,401 | 1,005,368,365,991 | 0.819257964 |
|  |  | 2023 | 559,468,977,416 | 951,550,724,256 | 0.58795497 |
|  | MFMI | 2019 | 140,122,699,920 | 421,902,495,547 | 0.33212105 |
|  |  | 2020 | 141,832,107,191 | 341,169,168,581 | 0.415723694 |
|  |  | 2021 | 144,516,730,115 | 340,216,666,768 | 0.424778514 |
|  |  | 2022 | 157,645,098,806 | 363,417,648,503 | 0.433784929 |
|  |  | 2023 | 170,310,659,015 | 354,412,830,081 | 0.480543154 |
|  | MLIA | 2019 | 3,887,075,800 | 5,758,102,626 | 0.675061918 |
|  |  | 2020 | 3,736,112,780 | 5,745,215,496 | 0.650299851 |
|  |  | 2021 | 4,450,121,257 | 6,121,601,356 | 0.726953782 |
|  |  | 2022 | 5,073,812,958 | 6,806,945,254 | 0.745387655 |
|  |  | 2023 | 4,806,411,306 | 7,017,221,425 | 0.684945082 |
|  | SCCO | 2019 | 5,701,072,391,797 | 4,400,655,628,146 | 1.295505232 |
|  |  | 2020 | 4,620,736,359,547 | 3,743,659,818,718 | 1.234283184 |
|  |  | 2021 | 5,020,992,336,635 | 4,696,875,916,384 | 1.069006809 |
|  |  | 2022 | 5,469,205,561,730 | 5,128,133,329,237 | 1.066510017 |
|  |  | 2023 | 5,823,016,502,106 | 5,329,800,918,271 | 1.092539213 |
|  | SKRN | 2019 | 682,378,381,166 | 1,672,444,043,460 | 0.408012683 |
|  |  | 2020 | 507,783,841,202 | 1,556,817,197,045 | 0.326167929 |
|  |  | 2021 | 419,487,164,471 | 1,449,009,069,102 | 0.289499337 |
|  |  | 2022 | 648,399,834,164 | 1,712,138,681,353 | 0.378707544 |
|  |  | 2023 | 893,452,285,307 | 2,925,890,854,697 | 0.30536077 |
|  | TOTO | 2019 | 2,056,096,661,320 | 2,918,467,252,139 | 0.7045125 |
|  |  | 2020 | 1,622,319,756,389 | 3,107,410,113,178 | 0.522080993 |
|  |  | 2021 | 1,831,956,807,551 | 3,236,330,922,409 | 0.566059792 |
|  |  | 2022 | 2,086,058,728,390 | 3,304,972,191,991 | 0.631187982 |
|  |  | 2023 | 2,125,542,963,624 | 3,333,890,799,976 | 0.637556264 |
|  | UNTR | 2019 | 84,430,478,000,000 | 111,713,375,000,000 | 0.755777703 |
|  |  | 2020 | 60,346,784,000,000 | 99,800,963,000,000 | 0.60467136 |
|  |  | 2021 | 4,748,139,000,000 | 7,403,476,000,000 | 0.641339149 |
|  |  | 2022 | 123,607,460,000,000 | 140,478,220,000,000 | 0.879904799 |
|  |  | 2023 | 128,583,264,000,000 | 154,028,248,000,000 | 0.834803133 |
|  | VOKS | 2019 | 2,669,686,185,127 | 3,027,942,155,357 | 0.881683351 |
|  |  | 2020 | 1,834,162,436,964 | 2,915,635,059,892 | 0.629078194 |
|  |  | 2021 | 1,710,091,470,427 | 2,893,167,569,270 | 0.591079303 |
|  |  | 2022 | 2,628,553,150,836 | 2,665,946,796,991 | 0.985973596 |
|  |  | 2023 | 3,055,441,987,857 | 2,623,144,891,155 | 1.164801075 |

**Lampiran 5**

**Hasil Perhitungan *Sales Growth* (X2) Perusahaan Sektor Industrial yang Terdaftar di BEI periode 2019-2023**

$$Sales Growth =\frac{Penjualan Tahun ini-Penjualan Tahun Lalu}{Penjualan Tahun Lalu}$$

| **No.** | **Kode Perusahaan** | **Tahun** | **Penjualan** | **(Penjualan Tahun Ini – Penjualan Tahun Lalu)** | **Penjualan Tahun Lalu** | ***Sales Growth*** |
| --- | --- | --- | --- | --- | --- | --- |
|  | AMFG | 2018 | 4,443,262,000,000 |  | 4,443,262,000,000 |  |
|  |  | 2019 | 4,289,776,000,000 | -153,486,000,000 | 4,289,776,000,000 | -0.03454354 |
|  |  | 2020 | 3,767,789,000,000 | -521,987,000,000 | 3,767,789,000,000 | -0.121681645 |
|  |  | 2021 | 4,784,139,000,000 | 1,016,350,000,000 | 4,784,139,000,000 | 0.269747059 |
|  |  | 2022 | 5,571,767,000,000 | 787,628,000,000 | 5,571,767,000,000 | 0.164633176 |
|  |  | 2023 | 5,913,565,000,000 | 341,798,000,000 | 5,913,565,000,000 | 0.061344633 |
|  | AMIN | 2018 | 246,403,880,622 |  | 246,403,880,622 |  |
|  |  | 2019 | 264,872,722,193 | 18,468,841,571 | 264,872,722,193 | 0.074953534 |
|  |  | 2020 | 205,277,939,854 | -59,594,782,339 | 205,277,939,854 | -0.224994034 |
|  |  | 2021 | 129,512,982,726 | -75,764,957,128 | 129,512,982,726 | -0.36908475 |
|  |  | 2022 | 182,184,441,799 | 52,671,459,073 | 182,184,441,799 | 0.406688642 |
|  |  | 2023 | 217,836,301,363 | 35,651,859,564 | 217,836,301,363 | 0.195691022 |
|  | APII | 2018 | 216,508,943,536 |  | 216,508,943,536 |  |
|  |  | 2019 | 242,761,693,999 | 26,252,750,463 | 242,761,693,999 | 0.121254808 |
|  |  | 2020 | 248,930,980,599 | 6,169,286,600 | 248,930,980,599 | 0.025412933 |
|  |  | 2021 | 252,448,924,906 | 3,517,944,307 | 252,448,924,906 | 0.014132208 |
|  |  | 2022 | 295,022,431,265 | 42,573,506,359 | 295,022,431,265 | 0.168642058 |
|  |  | 2023 | 299,110,900,336 | 4,088,469,071 | 299,110,900,336 | 0.013858163 |
|  | ARNA | 2018 | 1,971,478,070,171 |  | 1,971,478,070,171 |  |
|  |  | 2019 | 2,151,801,131,686 | 180,323,061,515 | 2,151,801,131,686 | 0.091465923 |
|  |  | 2020 | 2,211,743,593,136 | 59,942,461,450 | 2,211,743,593,136 | 0.027856878 |
|  |  | 2021 | 2,554,880,982,584 | 343,137,389,448 | 2,554,880,982,584 | 0.155143386 |
|  |  | 2022 | 2,586,665,297,217 | 31,784,314,633 | 2,586,665,297,217 | 0.012440624 |
|  |  | 2023 | 2,447,442,037,597 | -139,223,259,620 | 2,447,442,037,597 | -0.053823454 |
|  | ASGR | 2018 | 4,069,975,000,000 |  | 4,069,975,000,000 |  |
|  |  | 2019 | 4,771,800,000,000 | 701,825,000,000 | 4,771,800,000,000 | 0.172439634 |
|  |  | 2020 | 3,348,871,000,000 | -1,422,929,000,000 | 3,348,871,000,000 | -0.29819544 |
|  |  | 2021 | 3,299,105,000,000 | -49,766,000,000 | 3,299,105,000,000 | -0.014860531 |
|  |  | 2022 | 2,909,972,000,000 | -389,133,000,000 | 2,909,972,000,000 | -0.117951081 |
|  |  | 2023 | 2,968,952,000,000 | 58,980,000,000 | 2,968,952,000,000 | 0.020268236 |
|  | ASII | 2018 | 239,205,000,000 |  | 239,205,000,000 |  |
|  |  | 2019 | 237,166,000,000 | -2,039,000,000 | 237,166,000,000 | -0.008524069 |
|  |  | 2020 | 175,046,000,000 | -62,120,000,000 | 175,046,000,000 | -0.261926246 |
|  |  | 2021 | 233,485,000,000 | 58,439,000,000 | 233,485,000,000 | 0.333849388 |
|  |  | 2022 | 301,379,000,000 | 67,894,000,000 | 301,379,000,000 | 0.290785275 |
|  |  | 2023 | 316,565,000,000 | 15,186,000,000 | 316,565,000,000 | 0.050388381 |
|  | BHIT | 2018 | 14,725,851,000,000 |  | 14,725,851,000,000 |  |
|  |  | 2019 | 15,967,376,000,000 | 1,241,525,000,000 | 15,967,376,000,000 | 0.084309219 |
|  |  | 2020 | 14,795,285,000,000 | -1,172,091,000,000 | 14,795,285,000,000 | -0.073405361 |
|  |  | 2021 | 17,871,939,000,000 | 3,076,654,000,000 | 17,871,939,000,000 | 0.207948275 |
|  |  | 2022 | 18,083,695,000,000 | 211,756,000,000 | 18,083,695,000,000 | 0.011848519 |
|  |  | 2023 | 15,660,503,000,000 | -2,423,192,000,000 | 15,660,503,000,000 | -0.133998721 |
|  | BNBR | 2018 | 3,340,451,000,000 |  | 3,340,451,000,000 |  |
|  |  | 2019 | 3,235,677,000,000 | -104,774,000,000 | 3,235,677,000,000 | -0.031365226 |
|  |  | 2020 | 2,454,947,000,000 | -780,730,000,000 | 2,454,947,000,000 | -0.24128799 |
|  |  | 2021 | 2,393,477,000,000 | -61,470,000,000 | 2,393,477,000,000 | -0.025039237 |
|  |  | 2022 | 3,626,696,000,000 | 1,233,219,000,000 | 3,626,696,000,000 | 0.515241634 |
|  |  | 2023 | 3,759,484,000,000 | 132,788,000,000 | 3,759,484,000,000 | 0.036614042 |
|  | CAKK | 2018 | 274,477,488,108 |  | 274,477,488,108 |  |
|  |  | 2019 | 289,383,952,242 | 14,906,464,134 | 289,383,952,242 | 0.054308513 |
|  |  | 2020 | 217,013,915,602 | -72,370,036,640 | 217,013,915,602 | -0.250083103 |
|  |  | 2021 | 270,440,097,202 | 53,426,181,600 | 270,440,097,202 | 0.246187815 |
|  |  | 2022 | 250,320,655,340 | -20,119,441,862 | 250,320,655,340 | -0.074395188 |
|  |  | 2023 | 208,635,900,710 | -41,684,754,630 | 208,635,900,710 | -0.166525429 |
|  | DYAN | 2018 | 1,035,508,850,963 |  | 1,035,508,850,963 |  |
|  |  | 2019 | 980,145,831,991 | -55,363,018,972 | 980,145,831,991 | -0.053464554 |
|  |  | 2020 | 284,181,538,459 | -695,964,293,532 | 284,181,538,459 | -0.710061983 |
|  |  | 2021 | 563,839,174,231 | 279,657,635,772 | 563,839,174,231 | 0.984080941 |
|  |  | 2022 | 1,210,481,160,296 | 646,641,986,065 | 1,210,481,160,296 | 1.146855372 |
|  |  | 2023 | 1,329,121,702,300 | 118,640,542,004 | 1,329,121,702,300 | 0.09801106 |
|  | IKAI | 2018 | 11,276,672 |  | 11,276,672 |  |
|  |  | 2019 | 84,524,926 | 73,248,254 | 84,524,926 | 6.495555958 |
|  |  | 2020 | 92,586,834 | 8,061,908 | 92,586,834 | 0.09537906 |
|  |  | 2021 | 186,298,319 | 93,711,485 | 186,298,319 | 1.012146986 |
|  |  | 2022 | 235,624,901 | 49,326,582 | 235,624,901 | 0.264772019 |
|  |  | 2023 | 208,393,296 | -27,231,605 | 208,393,296 | -0.115571847 |
|  | IMPC | 2018 | 1,395,298,815,177 |  | 1,395,298,815,177 |  |
|  |  | 2019 | 1,495,759,701,262 | 100,460,886,085 | 1,495,759,701,262 | 0.071999549 |
|  |  | 2020 | 1,797,514,877,242 | 301,755,175,980 | 1,797,514,877,242 | 0.20174041 |
|  |  | 2021 | 2,227,367,211,794 | 429,852,334,552 | 2,227,367,211,794 | 0.239137011 |
|  |  | 2022 | 2,808,698,656,787 | 581,331,444,993 | 2,808,698,656,787 | 0.260994883 |
|  |  | 2023 | 2,860,388,195,952 | 51,689,539,165 | 2,860,388,195,952 | 0.018403377 |
|  | INDX | 2018 | 3,000,000,000 |  | 3,000,000,000 |  |
|  |  | 2019 | 4,800,000,000 | 1,800,000,000 | 4,800,000,000 | 0.6 |
|  |  | 2020 | 4,800,000,000 | 0 | 4,800,000,000 | 0 |
|  |  | 2021 | 4,800,000,000 | 0 | 4,800,000,000 | 0 |
|  |  | 2022 | 4,800,000,000 | 0 | 4,800,000,000 | 0 |
|  |  | 2023 | 1,456,276,487 | -3,343,723,513 | 1,456,276,487 | -0.696609065 |
|  | INTA | 2018 | 2,780,040,000,000 |  | 2,780,040,000,000 |  |
|  |  | 2019 | 1,962,957,000,000 | -817,083,000,000 | 1,962,957,000,000 | -0.293910519 |
|  |  | 2020 | 681,103,000,000 | -1,281,854,000,000 | 681,103,000,000 | -0.653021946 |
|  |  | 2021 | 611,377,000,000 | -69,726,000,000 | 611,377,000,000 | -0.102372182 |
|  |  | 2022 | 661,309,000,000 | 49,932,000,000 | 661,309,000,000 | 0.081671375 |
|  |  | 2023 | 1,081,793,000,000 | 420,484,000,000 | 1,081,793,000,000 | 0.635835895 |
|  | JECC | 2018 | 3,207,579,964 |  | 3,207,579,964 |  |
|  |  | 2019 | 2,926,098,892 | -281,481,072 | 2,926,098,892 | -0.087754966 |
|  |  | 2020 | 1,575,004,597 | -1,351,094,295 | 1,575,004,597 | -0.461739109 |
|  |  | 2021 | 1,721,401,131 | 146,396,534 | 1,721,401,131 | 0.092949909 |
|  |  | 2022 | 2,816,473,345 | 1,095,072,214 | 2,816,473,345 | 0.636151676 |
|  |  | 2023 | 3,087,562,665 | 271,089,320 | 3,087,562,665 | 0.096251335 |
|  | JTPE | 2018 | 1,269,759,234,189 |  | 1,269,759,234,189 |  |
|  |  | 2019 | 1,438,183,885,309 | 168,424,651,120 | 1,438,183,885,309 | 0.132642982 |
|  |  | 2020 | 978,625,887,145 | -459,557,998,164 | 978,625,887,145 | -0.3195405 |
|  |  | 2021 | 1,075,949,119,283 | 97,323,232,138 | 1,075,949,119,283 | 0.099448863 |
|  |  | 2022 | 1,423,142,732,743 | 347,193,613,460 | 1,423,142,732,743 | 0.322685903 |
|  |  | 2023 | 2,296,271,601,062 | 873,128,868,319 | 2,296,271,601,062 | 0.613521643 |
|  | KBLI | 2018 | 4,239,937,390,001 |  | 4,239,937,390,001 |  |
|  |  | 2019 | 4,500,555,248,155 | 260,617,858,154 | 4,500,555,248,155 | 0.061467384 |
|  |  | 2020 | 1,968,859,464,809 | -2,531,695,783,346 | 1,968,859,464,809 | -0.562529653 |
|  |  | 2021 | 1,761,740,449,027 | -207,119,015,782 | 1,761,740,449,027 | -0.105197461 |
|  |  | 2022 | 2,221,091,331,884 | 459,350,882,857 | 2,221,091,331,884 | 0.260736979 |
|  |  | 2023 | 2,764,212,244,707 | 543,120,912,823 | 2,764,212,244,707 | 0.244528852 |
|  | KBLM | 2018 | 1,243,465,775,218 |  | 1,243,465,775,218 |  |
|  |  | 2019 | 1,149,120,504,681 | -94,345,270,537 | 1,149,120,504,681 | -0.075872833 |
|  |  | 2020 | 883,822,892,518 | -265,297,612,163 | 883,822,892,518 | -0.23087014 |
|  |  | 2021 | 1,214,204,113,826 | 330,381,221,308 | 1,214,204,113,826 | 0.373809305 |
|  |  | 2022 | 1,514,907,831,143 | 300,703,717,317 | 1,514,907,831,143 | 0.247654998 |
|  |  | 2023 | 1,648,518,772,825 | 133,610,941,682 | 1,648,518,772,825 | 0.088197406 |
|  | KIAS | 2018 | 875,963,168,811 |  | 875,963,168,811 |  |
|  |  | 2019 | 735,066,462,915 | -140,896,705,896 | 735,066,462,915 | -0.160847751 |
|  |  | 2020 | 437,171,365,385 | -297,895,097,530 | 437,171,365,385 | -0.405262806 |
|  |  | 2021 | 552,465,600,178 | 115,294,234,793 | 552,465,600,178 | 0.263727783 |
|  |  | 2022 | 647,952,496,309 | 95,486,896,131 | 647,952,496,309 | 0.172837723 |
|  |  | 2023 | 562,620,703,597 | -85,331,792,712 | 562,620,703,597 | -0.13169452 |
|  | KOIN | 2018 | 1,750,649,236,912 |  | 1,750,649,236,912 |  |
|  |  | 2019 | 1,618,048,001,660 | -132,601,235,252 | 1,618,048,001,660 | -0.075744034 |
|  |  | 2020 | 1,446,474,839,632 | -171,573,162,028 | 1,446,474,839,632 | -0.106037127 |
|  |  | 2021 | 2,581,646,425,587 | 1,135,171,585,955 | 2,581,646,425,587 | 0.784784882 |
|  |  | 2022 | 3,111,392,892,032 | 529,746,466,445 | 3,111,392,892,032 | 0.205197141 |
|  |  | 2023 | 3,195,794,938,533 | 84,402,046,501 | 3,195,794,938,533 | 0.027126772 |
|  | LION | 2018 | 424,128,420,727 |  | 424,128,420,727 |  |
|  |  | 2019 | 372,489,022,928 | -51,639,397,799 | 372,489,022,928 | -0.121754156 |
|  |  | 2020 | 298,552,920,579 | -73,936,102,349 | 298,552,920,579 | -0.19849203 |
|  |  | 2021 | 300,280,285,514 | 1,727,364,935 | 300,280,285,514 | 0.005785791 |
|  |  | 2022 | 408,811,497,547 | 108,531,212,033 | 408,811,497,547 | 0.361433025 |
|  |  | 2023 | 452,134,429,435 | 43,322,931,888 | 452,134,429,435 | 0.10597288 |
|  | MARK | 2018 | 325,472,602,675 |  | 325,472,602,675 |  |
|  |  | 2019 | 361,544,998,431 | 36,072,395,756 | 361,544,998,431 | 0.110830821 |
|  |  | 2020 | 565,439,688,892 | 203,894,690,461 | 565,439,688,892 | 0.563953841 |
|  |  | 2021 | 1,193,506,756,539 | 628,067,067,647 | 1,193,506,756,539 | 1.110758725 |
|  |  | 2022 | 823,656,040,401 | -369,850,716,138 | 823,656,040,401 | -0.309885733 |
|  |  | 2023 | 559,468,977,416 | -264,187,062,985 | 559,468,977,416 | -0.320749257 |
|  | MFMI | 2018 | 121,776,463,361 |  | 121,776,463,361 |  |
|  |  | 2019 | 140,122,699,920 | 18,346,236,559 | 140,122,699,920 | 0.150655029 |
|  |  | 2020 | 141,832,107,191 | 1,709,407,271 | 141,832,107,191 | 0.01219936 |
|  |  | 2021 | 144,516,730,115 | 2,684,622,924 | 144,516,730,115 | 0.018928175 |
|  |  | 2022 | 157,645,098,806 | 13,128,368,691 | 157,645,098,806 | 0.090843245 |
|  |  | 2023 | 170,310,659,015 | 12,665,560,209 | 170,310,659,015 | 0.080342239 |
|  | MLIA | 2018 | 5,576,944,266 |  | 5,576,944,266 |  |
|  |  | 2019 | 3,887,075,800 | -1,689,868,466 | 3,887,075,800 | -0.303009746 |
|  |  | 2020 | 3,736,112,780 | -150,963,020 | 3,736,112,780 | -0.038837169 |
|  |  | 2021 | 4,450,121,257 | 714,008,477 | 4,450,121,257 | 0.19110999 |
|  |  | 2022 | 5,073,812,958 | 623,691,701 | 5,073,812,958 | 0.140151619 |
|  |  | 2023 | 4,806,411,306 | -267,401,652 | 4,806,411,306 | -0.052702308 |
|  | SCCO | 2018 | 5,160,182,004,111 |  | 5,160,182,004,111 |  |
|  |  | 2019 | 5,701,072,391,797 | 540,890,387,686 | 5,701,072,391,797 | 0.104820021 |
|  |  | 2020 | 4,620,736,359,547 | -1,080,336,032,250 | 4,620,736,359,547 | -0.189496985 |
|  |  | 2021 | 5,020,992,336,635 | 400,255,977,088 | 5,020,992,336,635 | 0.086621687 |
|  |  | 2022 | 5,469,205,561,730 | 448,213,225,095 | 5,469,205,561,730 | 0.089267857 |
|  |  | 2023 | 5,823,016,502,106 | 353,810,940,376 | 5,823,016,502,106 | 0.064691469 |
|  | SKRN | 2018 | 560,767,856,390 |  | 560,767,856,390 |  |
|  |  | 2019 | 682,378,381,166 | 121,610,524,776 | 682,378,381,166 | 0.216864293 |
|  |  | 2020 | 507,783,841,202 | -174,594,539,964 | 507,783,841,202 | -0.255861769 |
|  |  | 2021 | 419,487,164,471 | -88,296,676,731 | 419,487,164,471 | -0.173886346 |
|  |  | 2022 | 648,399,834,164 | 228,912,669,693 | 648,399,834,164 | 0.545696482 |
|  |  | 2023 | 893,452,285,307 | 245,052,451,143 | 893,452,285,307 | 0.377934167 |
|  | TOTO | 2018 | 2,228,260,379,884 |  | 2,228,260,379,884 |  |
|  |  | 2019 | 2,056,096,661,320 | -172,163,718,564 | 2,056,096,661,320 | -0.077263735 |
|  |  | 2020 | 1,622,319,756,389 | -433,776,904,931 | 1,622,319,756,389 | -0.210971066 |
|  |  | 2021 | 1,831,956,807,551 | 209,637,051,162 | 1,831,956,807,551 | 0.12922055 |
|  |  | 2022 | 2,086,058,728,390 | 254,101,920,839 | 2,086,058,728,390 | 0.138705192 |
|  |  | 2023 | 2,125,542,963,624 | 39,484,235,234 | 2,125,542,963,624 | 0.018927672 |
|  | UNTR | 2018 | 84,624,733,000,000 |  | 84,624,733,000,000 |  |
|  |  | 2019 | 84,430,478,000,000 | -194,255,000,000 | 84,430,478,000,000 | -0.002295487 |
|  |  | 2020 | 60,346,784,000,000 | -24,083,694,000,000 | 60,346,784,000,000 | -0.285248817 |
|  |  | 2021 | 79,460,503,000,000 | 19,113,719,000,000 | 79,460,503,000,000 | 0.316731361 |
|  |  | 2022 | 123,607,460,000,000 | 44,146,957,000,000 | 123,607,460,000,000 | 0.555583659 |
|  |  | 2023 | 128,583,264,000,000 | 4,975,804,000,000 | 128,583,264,000,000 | 0.040254884 |
|  | VOKS | 2018 | 2,684,419,276,973 |  | 2,684,419,276,973 |  |
|  |  | 2019 | 2,669,686,185,127 | -14,733,091,846 | 2,669,686,185,127 | -0.005488372 |
|  |  | 2020 | 1,834,162,436,964 | -835,523,748,163 | 1,834,162,436,964 | -0.312967027 |
|  |  | 2021 | 1,710,091,470,427 | -124,070,966,537 | 1,710,091,470,427 | -0.067644481 |
|  |  | 2022 | 2,628,553,150,836 | 918,461,680,409 | 2,628,553,150,836 | 0.537083364 |
|  |  | 2023 | 3,055,441,987,857 | 426,888,837,021 | 3,055,441,987,857 | 0.162404491 |

**Lampiran 6**

**Hasil Perhitungan Arus Kas Operasi (X3) Perusahaan Sektor Industrial yang Terdaftar di BEI periode 2019-2023**

$$Arus Kas Operasi=\frac{Arus Kas Operasi}{Kewajiban Lancar}$$

| **No.**  | **Kode Perusahaan** | **Tahun** | **Arus Kas Operasi** | **Hutang Lancar** | **Arus Kas Operasi** |
| --- | --- | --- | --- | --- | --- |
|  | AMFG | 2019 | -45,608,000,000 | 2,286,103,000,000 | -0.019950107 |
|  |  | 2020 | 565,550,000,000 | 2,404,568,000,000 | 0.235198173 |
|  |  | 2021 | 1,015,935,000,000 | 1,927,761,000,000 | 0.527002569 |
|  |  | 2022 | 815,751,000,000 | 1,986,252,000,000 | 0.410698642 |
|  |  | 2023 | 850,090,000,000 | 1,922,939,000,000 | 0.442078506 |
|  | AMIN | 2019 | 13,472,771,574 | 167,420,913,753 | 0.080472453 |
|  |  | 2020 | 11,977,178,491 | 180,655,241,982 | 0.066298538 |
|  |  | 2021 | 11,322,929,652 | 182,669,165,262 | 0.061985993 |
|  |  | 2022 | 47,103,444,358 | 147,961,497,672 | 0.318349335 |
|  |  | 2023 | 19,925,105,399 | 156,573,698,247 | 0.12725704 |
|  | APII | 2019 | 33,577,835,330 | 172,681,301,594 | 0.194449747 |
|  |  | 2020 | 25,431,274,798 | 162,664,484,708 | 0.156341901 |
|  |  | 2021 | 22,626,179,241 | 165,727,263,794 | 0.136526596 |
|  |  | 2022 | 22,595,384,756 | 174,914,078,408 | 0.129179909 |
|  |  | 2023 | 30,696,987,207 | 175,767,795,344 | 0.174645117 |
|  | ARNA | 2019 | 368,988,791,699 | 562,004,316,020 | 0.656558644 |
|  |  | 2020 | 419,903,184,489 | 602,572,382,597 | 0.696851028 |
|  |  | 2021 | 499,071,136,681 | 604,446,106,477 | 0.82566689 |
|  |  | 2022 | 465,550,947,703 | 685,894,904,063 | 0.678749682 |
|  |  | 2023 | 344,011,362,465 | 652,036,510,074 | 0.527595245 |
|  | ASGR | 2019 | 374,555,000,000 | 1,197,865,000,000 | 0.312685486 |
|  |  | 2020 | 101,580,000,000 | 614,162,000,000 | 0.165396101 |
|  |  | 2021 | 616,103,000,000 | 941,897,000,000 | 0.654108676 |
|  |  | 2022 | 284,587,000,000 | 917,998,000,000 | 0.310008301 |
|  |  | 2023 | 97,102,000,000 | 829,325,000,000 | 0.117085582 |
|  | ASII | 2019 | 19,186,000,000,000 | 99,962,000,000,000 | 0.191932935 |
|  |  | 2020 | 37,683,000,000,000 | 85,736,000,000,000 | 0.439523654 |
|  |  | 2021 | 38,252,000,000,000 | 103,778,000,000,000 | 0.3685945 |
|  |  | 2022 | 37,342,000,000,000 | 119,198,000,000,000 | 0.313277068 |
|  |  | 2023 | 33,746,000,000,000 | 125,022,000,000,000 | 0.269920494 |
|  | BHIT | 2019 | 3,041,286,000,000 | 17,191,092,000,000 | 0.176910577 |
|  |  | 2020 | 4,336,751,000,000 | 20,317,500,000,000 | 0.213449046 |
|  |  | 2021 | 5,750,675,000,000 | 22,440,111,000,000 | 0.256267672 |
|  |  | 2022 | 4,162,541,000,000 | 21,809,655,000,000 | 0.190857719 |
|  |  | 2023 | 740,044,000,000 | 22,062,974,000,000 | 0.03354235 |
|  | BNBR | 2019 | 347,812,000,000 | 11,115,243,000,000 | 0.031291444 |
|  |  | 2020 | -18,764,000,000 | 11,853,421,000,000 | -0.001583003 |
|  |  | 2021 | 50,131,000,000 | 13,328,916,000,000 | 0.003761071 |
|  |  | 2022 | 400,156,000,000 | 15,334,772,000,000 | 0.026094682 |
|  |  | 2023 | -318,431,000,000 | 3,956,596,000,000 | -0.08048105 |
|  | CAKK | 2019 | 44,330,009,817 | 79,313,938,559 | 0.558918276 |
|  |  | 2020 | 20,750,645,228 | 52,335,492,814 | 0.396492784 |
|  |  | 2021 | 25,839,967,464 | 83,636,830,884 | 0.308954407 |
|  |  | 2022 | -1,906,909,864 | 168,476,334,141 | -0.011318562 |
|  |  | 2023 | -39,638,252,547 | 194,311,162,777 | -0.203993697 |
|  | DYAN | 2019 | 60,714,286,481 | 281,656,341,780 | 0.215561582 |
|  |  | 2020 | -111,162,350,849 | 303,233,929,458 | -0.366589422 |
|  |  | 2021 | -13,200,688,553 | 331,488,449,316 | -0.039822469 |
|  |  | 2022 | 98,571,837,285 | 414,314,155,429 | 0.237915688 |
|  |  | 2023 | 177,427,182,958 | 396,723,284,840 | 0.447231584 |
|  | IKAI | 2019 | -55,279,005,000 | 164,884,591,000 | -0.335258769 |
|  |  | 2020 | -17,547,355,000 | 141,446,706,000 | -0.1240563 |
|  |  | 2021 | 26,556,381,000 | 188,648,971,000 | 0.140771407 |
|  |  | 2022 | 25,442,547,000 | 406,091,737,000 | 0.062652215 |
|  |  | 2023 | 19,536,443,000 | 250,847,480,000 | 0.077881759 |
|  | IMPC | 2019 | 136,558,916,453 | 479,079,545,266 | 0.285044348 |
|  |  | 2020 | 226,954,878,020 | 608,353,619,395 | 0.373064071 |
|  |  | 2021 | 245,457,033,236 | 639,768,354,487 | 0.383665481 |
|  |  | 2022 | 228,972,246,510 | 716,738,190,188 | 0.319464275 |
|  |  | 2023 | 579,069,868,368 | 764,205,726,663 | 0.757740813 |
|  | INDX | 2019 | -158,410,992 | 6,122,952,966 | -0.025871666 |
|  |  | 2020 | -1,233,755,308 | 1,690,369,699 | -0.729873062 |
|  |  | 2021 | 526,611,598 | 2,578,557,569 | 0.204227202 |
|  |  | 2022 | 1,742,968,209 | 5,523,128,442 | 0.315576259 |
|  |  | 2023 | -4,820,007,457 | 5,455,444,244 | -0.883522449 |
|  | INTA | 2019 | 257,286,000,000 | 836,491,000,000 | 0.307577726 |
|  |  | 2020 | 63,391,000,000 | 3,056,088,000,000 | 0.020742531 |
|  |  | 2021 | -4,346,000,000 | 3,133,477,000,000 | -0.001386958 |
|  |  | 2022 | 119,248,000,000 | 437,671,000,000 | 0.272460364 |
|  |  | 2023 | 83,175,000,000 | 822,980,000,000 | 0.10106564 |
|  | JECC | 2019 | 179,820,473 | 1,028,264,298 | 0.174877678 |
|  |  | 2020 | 405,915,749 | 683,973,802 | 0.593466808 |
|  |  | 2021 | -262,438,827 | 976,527,815 | -0.268746904 |
|  |  | 2022 | -155,061,768 | 1,391,322,091 | -0.111449224 |
|  |  | 2023 | 185,765,226 | 1,303,802,353 | 0.142479591 |
|  | JTPE | 2019 | 149,142,543,025 | 377,689,653,417 | 0.394881199 |
|  |  | 2020 | 167,588,791,746 | 243,965,977,151 | 0.686935095 |
|  |  | 2021 | 198,461,515,932 | 242,307,052,888 | 0.819049687 |
|  |  | 2022 | 143,435,748,593 | 488,176,318,701 | 0.293819555 |
|  |  | 2023 | 472,960,624,722 | 654,105,515,620 | 0.723064725 |
|  | KBLI | 2019 | -35,035,662,077 | 879,315,149,074 | -0.039844261 |
|  |  | 2020 | 757,417,628,860 | 473,292,558,195 | 1.600315948 |
|  |  | 2021 | 164,097,703,741 | 157,474,430,663 | 1.042059356 |
|  |  | 2022 | -176,261,580,673 | 187,361,934,985 | -0.940754485 |
|  |  | 2023 | 165,431,885,694 | 273,711,862,370 | 0.604401593 |
|  | KBLM | 2019 | -90,085,786,270 | 422,310,102,458 | -0.213316674 |
|  |  | 2020 | 63,391,302,057 | 168,071,546,757 | 0.377168553 |
|  |  | 2021 | -22,885,073,337 | 266,614,137,737 | -0.085835933 |
|  |  | 2022 | 75,739,530,044 | 247,684,626,134 | 0.305790195 |
|  |  | 2023 | 114,732,021,411 | 312,057,359,270 | 0.367663245 |
|  | KIAS | 2019 | -45,225,708,206 | 275,411,165,942 | -0.1642116 |
|  |  | 2020 | 25,137,175,151 | 127,909,759,386 | 0.19652273 |
|  |  | 2021 | 7,202,024,395 | 108,208,133,431 | 0.066557145 |
|  |  | 2022 | 1,344,232,559 | 177,517,613,638 | 0.00757239 |
|  |  | 2023 | 62,982,929,320 | 119,252,602,856 | 0.528147209 |
|  | KOIN | 2019 | 11,136,444,441 | 553,865,665,830 | 0.020106761 |
|  |  | 2020 | 56,028,470,586 | 529,614,198,284 | 0.105791104 |
|  |  | 2021 | -79,558,470,586 | 952,940,940,427 | -0.083487305 |
|  |  | 2022 | -71,501,541,822 | 1,056,713,188,891 | -0.067664095 |
|  |  | 2023 | 177,532,354,458 | 1,043,889,708,048 | 0.170068115 |
|  | LION | 2019 | -10,331,375,004 | 96,795,209,943 | -0.106734362 |
|  |  | 2020 | 5,416,801,450 | 75,454,398,417 | 0.071789075 |
|  |  | 2021 | -11,547,720,678 | 145,920,423,985 | -0.07913711 |
|  |  | 2022 | -42,365,251,223 | 135,297,369,996 | -0.313126938 |
|  |  | 2023 | 3,948,731,270 | 159,255,073,682 | 0.024795011 |
|  | MARK | 2019 | 48,078,774,049 | 75,173,239,233 | 0.639572999 |
|  |  | 2020 | 218,921,380,562 | 243,988,835,356 | 0.897259828 |
|  |  | 2021 | 331,696,205,583 | 273,462,421,017 | 1.212949861 |
|  |  | 2022 | 210,636,685,652 | 111,916,306,057 | 1.882091119 |
|  |  | 2023 | 234,322,148,589 | 79,294,933,197 | 2.955070887 |
|  | MFMI | 2019 | 59,605,617,520 | 164,962,045,619 | 0.361329282 |
|  |  | 2020 | 48,098,857,225 | 164,962,045,619 | 0.291575296 |
|  |  | 2021 | 35,859,253,111 | 26,836,261,982 | 1.336223843 |
|  |  | 2022 | 88,112,920,928 | 55,613,797,039 | 1.584371606 |
|  |  | 2023 | 84,175,310,435 | 53,183,051,654 | 1.582746906 |
|  | MLIA | 2019 | 175,969,808 | 1,146,204,194 | 0.153523961 |
|  |  | 2020 | 399,073,275 | 1,173,917,101 | 0.339950133 |
|  |  | 2021 | 873,062,045 | 1,184,192,608 | 0.737263549 |
|  |  | 2022 | 796,189,896 | 1,158,518,478 | 0.687248336 |
|  |  | 2023 | 467,768,657 | 1,123,458,245 | 0.416364969 |
|  | SCCO | 2019 | 128,284,278,362 | 1,215,211,419,437 | 0.105565399 |
|  |  | 2020 | 1,205,839,336,898 | 421,640,268,111 | 2.859877076 |
|  |  | 2021 | 46,862,952,796 | 256,862,068,217 | 0.182444037 |
|  |  | 2022 | -293,619,328,630 | 348,948,204,860 | -0.841441006 |
|  |  | 2023 | 297,483,912,497 | 350,038,626,503 | 0.849860244 |
|  | SKRN | 2019 | 309,960,940,522 | 279,590,955,886 | 1.108622915 |
|  |  | 2020 | 293,137,672,454 | 311,890,696,568 | 0.939873089 |
|  |  | 2021 | 205,352,199,712 | 256,138,907,057 | 0.801722011 |
|  |  | 2022 | 340,882,969,226 | 248,759,921,124 | 1.370329142 |
|  |  | 2023 | 734,002,905,488 | 1,278,861,967,920 | 0.573950062 |
|  | TOTO | 2019 | 277,886,404,272 | 366,190,601,907 | 0.75885728 |
|  |  | 2020 | 309,307,597,763 | 311,318,199,889 | 0.993541649 |
|  |  | 2021 | 113,880,999,531 | 407,181,217,569 | 0.279681367 |
|  |  | 2022 | 326,550,904,577 | 427,991,220,891 | 0.762985054 |
|  |  | 2023 | 301,068,008,538 | 400,851,025,764 | 0.751072067 |
|  | UNTR | 2019 | 9,435,985,000,000 | 32,585,529,000,000 | 0.289575934 |
|  |  | 2020 | 18,557,088,000,000 | 20,943,824,000,000 | 0.886041059 |
|  |  | 2021 | 23,284,854,000,000 | 30,489,218,000,000 | 0.763707813 |
|  |  | 2022 | 32,891,585,000,000 | 42,037,402,000,000 | 0.782436198 |
|  |  | 2023 | 26,346,848,000,000 | 43,038,299,000,000 | 0.612172149 |
|  | VOKS | 2019 | 158,163,214,460 | 1,284,816,720,522 | 0.123101772 |
|  |  | 2020 | -137,823,461,640 | 1,180,663,259,903 | -0.116733929 |
|  |  | 2021 | 58,257,180,300 | 1,765,612,333,045 | 0.032995454 |
|  |  | 2022 | 80,734,911,790 | 1,837,461,124,059 | 0.043938297 |
|  |  | 2023 | -53,573,744,295 | 1,467,308,532,113 | -0.036511574 |

**Lampiran 7**

**Hasil Perhitungan Likuiditas (X4) Perusahaan Sektor Industrial yang Terdaftar di BEI periode 2019-2023**

$$Current Ratio \left(CR\right)=\frac{Aktiva Lancar}{Hutang Lancar}$$

| **No.** | **Kode Perusahaan** | **Tahun** | **Aset Lancar**  | **Hutang Lancar** | ***Current Ratio*** | **Transform Data** |
| --- | --- | --- | --- | --- | --- | --- |
|  | AMFG | 2019 | 2,347,673,000,000 | 2,286,103,000,000 | 1.026932295 | 1.013360745 |
|  |  | 2020 | 1,932,986,000,000 | 2,404,568,000,000 | 0.80388078 | 0.896548938 |
|  |  | 2021 | 1,906,967,000,000 | 1,927,761,000,000 | 0.989213393 | 0.994585340 |
|  |  | 2022 | 2,392,927,000,000 | 1,986,252,000,000 | 1.204744917 | 1.097588265 |
|  |  | 2023 | 2,776,505,000,000 | 1,922,939,000,000 | 1.443886156 | 1.201582290 |
|  | AMIN | 2019 | 291,688,867,203 | 167,420,913,753 | 1.742248687 | 1.319924240 |
|  |  | 2020 | 307,856,159,370 | 180,655,241,982 | 1.704108644 | 1.305411812 |
|  |  | 2021 | 240,379,288,600 | 182,669,165,262 | 1.315927011 | 1.147126845 |
|  |  | 2022 | 205,809,889,601 | 147,961,497,672 | 1.390969224 | 1.179364235 |
|  |  | 2023 | 219,546,498,054 | 156,573,698,247 | 1.402192709 | 1.184103036 |
|  | APII | 2019 | 277,538,146,400 | 172,681,301,594 | 1.607227556 | 1.267753919 |
|  |  | 2020 | 290,537,022,291 | 162,664,484,708 | 1.78611221 | 1.336450522 |
|  |  | 2021 | 307,335,545,064 | 165,727,263,794 | 1.854465813 | 1.361763562 |
|  |  | 2022 | 312,339,991,473 | 174,914,078,408 | 1.785676684 | 1.336263447 |
|  |  | 2023 | 308,413,652,363 | 175,767,795,344 | 1.754665306 | 1.324613151 |
|  | ARNA | 2019 | 975,855,222,731 | 562,004,316,020 | 1.736383858 | 1.317687368 |
|  |  | 2020 | 1,183,164,904,839 | 602,572,382,597 | 1.963523286 | 1.401249442 |
|  |  | 2021 | 1,450,950,591,357 | 604,446,106,477 | 2.400463128 | 1.549322432 |
|  |  | 2022 | 1,601,724,616,560 | 685,894,904,063 | 2.335233295 | 1.528136119 |
|  |  | 2023 | 1,573,862,491,967 | 652,036,510,074 | 2.413764364 | 1.553608702 |
|  | ASGR | 2019 | 2,351,295,000,000 | 1,197,865,000,000 | 1.962904835 | 1.401035331 |
|  |  | 2020 | 1,742,927,000,000 | 614,162,000,000 | 2.837894562 | 1.684577098 |
|  |  | 2021 | 2,226,977,000,000 | 941,897,000,000 | 2.364353003 | 1.537628043 |
|  |  | 2022 | 2,226,330,000,000 | 917,998,000,000 | 2.425201362 | 1.557305365 |
|  |  | 2023 | 2,187,131,000,000 | 829,325,000,000 | 2.637242336 | 1.623945811 |
|  | ASII | 2019 | 129,058,000,000,000 | 99,962,000,000,000 | 1.291070607 | 1.136221809 |
|  |  | 2020 | 132,308,000,000,000 | 85,736,000,000,000 | 1.543202389 | 1.242256012 |
|  |  | 2021 | 1,602,620,000,000,000 | 103,778,000,000,000 | 1.544277207 | 1.242658440 |
|  |  | 2022 | 179,818,000,000,000 | 119,198,000,000,000 | 1.50856558 | 1.228210079 |
|  |  | 2023 | 166,186,000,000,000 | 125,022,000,000,000 | 1.329254051 | 1.152909363 |
|  | BHIT | 2019 | 18,505,254,000,000 | 17,191,092,000,000 | 1.076444359 | 1.037496987 |
|  |  | 2020 | 21,063,800,000,000 | 20,317,500,000,000 | 1.036731881 | 1.018184659 |
|  |  | 2021 | 24,471,459,000,000 | 22,440,111,000,000 | 1.090523082 | 1.044270080 |
|  |  | 2022 | 24,884,694,000,000 | 21,809,655,000,000 | 1.14099439 | 1.068129205 |
|  |  | 2023 | 26,950,824,000,000 | 22,062,974,000,000 | 1.221540849 | 1.105214911 |
|  | BNBR | 2019 | 11,259,202,000,000 | 11,115,243,000,000 | 1.012951494 | 1.006429331 |
|  |  | 2020 | 10,599,635,000,000 | 11,853,421,000,000 | 0.89422581 | 0.945621488 |
|  |  | 2021 | 11,966,314,000,000 | 13,328,916,000,000 | 0.897770982 | 0.947470316 |
|  |  | 2022 | 14,295,820,000,000 | 15,334,772,000,000 | 0.932248618 | 0.965505049 |
|  |  | 2023 | 3,943,916,000,000 | 3,956,596,000,000 | 0.996795225 | 0.998348636 |
|  | CAKK | 2019 | 110,989,409,123 | 79,313,938,559 | 1.399368272 | 1.182920115 |
|  |  | 2020 | 93,958,168,942 | 52,335,492,814 | 1.795304943 | 1.339888055 |
|  |  | 2021 | 103,605,562,297 | 83,636,830,884 | 1.238755237 | 1.112969002 |
|  |  | 2022 | 127,135,857,284 | 168,476,334,141 | 0.75462146 | 0.868677155 |
|  |  | 2023 | 142,857,510,130 | 194,311,162,777 | 0.735199708 | 0.857379729 |
|  | DYAN | 2019 | 423,654,315,194 | 281,656,341,780 | 1.504153297 | 1.226417547 |
|  |  | 2020 | 281,632,681,361 | 303,233,929,458 | 0.92876375 | 0.963690821 |
|  |  | 2021 | 273,193,157,460 | 331,488,449,316 | 0.824140805 | 0.907799537 |
|  |  | 2022 | 467,471,060,218 | 414,314,155,429 | 1.128300962 | 1.062214667 |
|  |  | 2023 | 513,446,604,189 | 396,723,284,840 | 1.294218474 | 1.137629113 |
|  | IKAI | 2019 | 114,819,624,000 | 164,884,591,000 | 0.69636358 | 0.887299273 |
|  |  | 2020 | 76,232,484,000 | 141,446,706,000 | 0.538948457 | 0.692675970 |
|  |  | 2021 | 164,884,591,000 | 188,648,971,000 | 0.874028573 | 0.934879671 |
|  |  | 2022 | 141,446,706,000 | 406,091,737,000 | 0.348312199 | 0.590169467 |
|  |  | 2023 | 139,784,216,000 | 250,847,480,000 | 0.557247838 | 0.746458304 |
|  | IMPC | 2019 | 1,174,699,544,323 | 479,079,545,266 | 2.451992693 | 1.565854399 |
|  |  | 2020 | 1,261,952,159,927 | 608,353,619,395 | 2.074372733 | 1.440243035 |
|  |  | 2021 | 1,383,431,547,987 | 639,768,354,487 | 2.162394464 | 1.470476113 |
|  |  | 2022 | 1,754,894,947,354 | 716,738,190,188 | 2.448446269 | 1.564736399 |
|  |  | 2023 | 1,821,897,744,941 | 764,205,726,663 | 2.384040948 | 1.544020725 |
|  | INDX | 2019 | 25,534,609,271 | 6,122,952,966 | 4.170309557 | 1.473193809 |
|  |  | 2020 | 14,030,688,247 | 1,690,369,699 | 8.300366633 | 1.516673992 |
|  |  | 2021 | 15,526,739,883 | 2,578,557,569 | 6.021482735 | 1.421759473 |
|  |  | 2022 | 9,474,988,079 | 5,523,128,442 | 1.715511087 | 1.309770972 |
|  |  | 2023 | 4,526,523,998 | 5,455,444,244 | 0.829726012 | 0.910878696 |
|  | INTA | 2019 | 1,248,836,000,000 | 836,491,000,000 | 1.492946129 | 1.221842870 |
|  |  | 2020 | 653,858,000,000 | 3,056,088,000,000 | 0.213952609 | 0.462493243 |
|  |  | 2021 | 495,730,000,000 | 3,133,477,000,000 | 0.158204448 | 0.397743636 |
|  |  | 2022 | 410,578,000,000 | 437,671,000,000 | 0.938097338 | 0.968504001 |
|  |  | 2023 | 828,278,000,000 | 822,980,000,000 | 1.006437581 | 1.003194896 |
|  | JECC | 2019 | 1,287,480,241 | 1,028,264,298 | 1.252090774 | 1.118928058 |
|  |  | 2020 | 931,144,662 | 683,973,802 | 1.361374748 | 1.166747616 |
|  |  | 2021 | 1,153,286,914 | 976,527,815 | 1.181007746 | 1.086738238 |
|  |  | 2022 | 1,612,699,928 | 1,391,322,091 | 1.159113291 | 1.076615065 |
|  |  | 2023 | 1,593,571,789 | 1,303,802,353 | 1.222249511 | 1.105531546 |
|  | JTPE | 2019 | 630,300,249,781 | 377,689,653,417 | 1.668831127 | 1.291820420 |
|  |  | 2020 | 507,404,939,486 | 243,965,977,151 | 2.079818446 | 1.442151170 |
|  |  | 2021 | 568,891,385,933 | 242,307,052,888 | 2.347811915 | 1.532253242 |
|  |  | 2022 | 843,786,540,254 | 488,176,318,701 | 1.728446276 | 1.314686274 |
|  |  | 2023 | 1,042,772,962,708 | 654,105,515,620 | 1.594196866 | 1.262576730 |
|  | KBLI | 2019 | 2,558,063,940,045 | 879,315,149,074 | 2.909154861 | 1.705608395 |
|  |  | 2020 | 2,504,430,163,660 | 473,292,558,195 | 5.291505476 | 1.513770127 |
|  |  | 2021 | 1,852,292,728,366 | 157,474,430,663 | 11.76249833 | 1.939690696 |
|  |  | 2022 | 1,952,463,428,100 | 187,361,934,985 | 10.42081161 | 1.555892027 |
|  |  | 2023 | 2,186,612,525,959 | 273,711,862,370 | 7.988738621 | 1.997173002 |
|  | KBLM | 2019 | 575,917,900,166 | 422,310,102,458 | 1.363732236 | 1.167775663 |
|  |  | 2020 | 320,497,087,517 | 168,071,546,757 | 1.906908657 | 1.380905500 |
|  |  | 2021 | 412,346,379,347 | 266,614,137,737 | 1.546603578 | 1.243623737 |
|  |  | 2022 | 440,749,336,172 | 247,684,626,134 | 1.779477972 | 1.333941527 |
|  |  | 2023 | 554,786,273,446 | 312,057,359,270 | 1.777834289 | 1.333341666 |
|  | KIAS | 2019 | 418,960,114,294 | 275,411,165,942 | 1.521216879 | 1.233369368 |
|  |  | 2020 | 213,856,436,953 | 127,909,759,386 | 1.671932134 | 1.293019721 |
|  |  | 2021 | 264,701,143,076 | 108,208,133,431 | 2.446222245 | 1.564033247 |
|  |  | 2022 | 335,771,250,503 | 177,517,613,638 | 1.891481322 | 1.375281789 |
|  |  | 2023 | 255,933,113,819 | 119,252,602,856 | 2.14614279 | 1.464957337 |
|  | KOIN | 2019 | 592,578,908,193 | 553,865,665,830 | 1.069896447 | 1.034311365 |
|  |  | 2020 | 606,903,824,102 | 529,614,198,284 | 1.145935713 | 1.070467187 |
|  |  | 2021 | 942,326,613,088 | 952,940,940,427 | 0.988861506 | 0.994384231 |
|  |  | 2022 | 928,486,381,754 | 1,056,713,188,891 | 0.878655052 | 0.937336652 |
|  |  | 2023 | 874,360,188,853 | 1,043,889,708,048 | 0.837598246 | 0.915150260 |
|  | LION | 2019 | 503,134,003,908 | 96,795,209,943 | 5.197922544 | 1.482531618 |
|  |  | 2020 | 465,603,517,298 | 75,454,398,417 | 6.170661049 | 1.473295625 |
|  |  | 2021 | 473,632,576,435 | 145,920,423,985 | 3.245827853 | 1.801610390 |
|  |  | 2022 | 473,379,372,904 | 135,297,369,996 | 3.498806909 | 1.870507952 |
|  |  | 2023 | 481,765,550,379 | 159,255,073,682 | 3.025119007 | 1.739281460 |
|  | MARK | 2019 | 220,340,681,278 | 75,173,239,233 | 2.931105318 | 1.712045560 |
|  |  | 2020 | 356,886,698,938 | 243,988,835,356 | 1.462717335 | 1.209421349 |
|  |  | 2021 | 585,685,378,899 | 273,462,421,017 | 2.141739902 | 1.463454816 |
|  |  | 2022 | 439,258,395,750 | 111,916,306,057 | 3.924882899 | 1.981110799 |
|  |  | 2023 | 423,036,125,486 | 79,294,933,197 | 5.334970451 | 1.528037957 |
|  | MFMI | 2019 | 421,902,495,547 | 164,962,045,619 | 2.557573131 | 1.378005805 |
|  |  | 2020 | 341,169,168,581 | 164,962,045,619 | 2.068167664 | 1.176180258 |
|  |  | 2021 | 111,754,669,206 | 26,836,261,982 | 4.164315778 | 1.471156008 |
|  |  | 2022 | 132,202,008,827 | 55,613,797,039 | 2.377144088 | 1.541784680 |
|  |  | 2023 | 141,398,689,679 | 53,183,051,654 | 2.658717115 | 1.630552053 |
|  | MLIA | 2019 | 1,436,370,319 | 1,146,204,194 | 1.253153955 | 1.119419492 |
|  |  | 2020 | 1,234,147,942 | 1,173,917,101 | 1.051307576 | 1.025329215 |
|  |  | 2021 | 1,687,494,334 | 1,184,192,608 | 1.425016777 | 1.193733638 |
|  |  | 2022 | 2,328,864,897 | 1,158,518,478 | 2.01020954 | 1.417815220 |
|  |  | 2023 | 2,441,616,384 | 1,123,458,245 | 2.173304077 | 1.474211653 |
|  | SCCO | 2019 | 2,545,811,121,087 | 1,215,211,419,437 | 2.094953257 | 1.447376937 |
|  |  | 2020 | 1,855,080,214,313 | 421,640,268,111 | 4.399675161 | 1.549064233 |
|  |  | 2021 | 1,752,396,200,332 | 256,862,068,217 | 6.822323796 | 1.679970237 |
|  |  | 2022 | 1,896,185,326,170 | 348,948,204,860 | 5.434002238 | 1.560128199 |
|  |  | 2023 | 2,080,263,323,999 | 350,038,626,503 | 5.942953624 | 1.715488268 |
|  | SKRN | 2019 | 348,948,204,860 | 279,590,955,886 | 1.248066855 | 1.419894362 |
|  |  | 2020 | 440,188,055,273 | 311,890,696,568 | 1.411353593 | 1.187981481 |
|  |  | 2021 | 397,074,371,606 | 256,138,907,057 | 1.5502306 | 1.245070279 |
|  |  | 2022 | 477,847,318,111 | 248,759,921,124 | 1.92091763 | 1.385965367 |
|  |  | 2023 | 982,191,527,420 | 1,278,861,967,920 | 0.768019968 | 0.876356092 |
|  | TOTO | 2019 | 1,339,772,262,044 | 366,190,601,907 | 3.658674622 | 1.912746716 |
|  |  | 2020 | 1,346,577,922,442 | 311,318,199,889 | 4.325407005 | 1.524926227 |
|  |  | 2021 | 1,474,741,239,928 | 407,181,217,569 | 3.621830223 | 1.903102729 |
|  |  | 2022 | 1,528,687,046,125 | 427,991,220,891 | 3.57177197 | 1.889894176 |
|  |  | 2023 | 1,460,881,909,344 | 400,851,025,764 | 3.644450969 | 1.909031167 |
|  | UNTR | 2019 | 50,826,955,000,000 | 32,585,529,000,000 | 1.559801438 | 1.248919533 |
|  |  | 2020 | 44,195,782,000,000 | 20,943,824,000,000 | 2.110205949 | 1.452652745 |
|  |  | 2021 | 60,604,068,000,000 | 30,489,218,000,000 | 1.987721299 | 1.409858148 |
|  |  | 2022 | 78,930,048,000,000 | 42,037,402,000,000 | 1.877614796 | 1.370255450 |
|  |  | 2023 | 62,667,105,000,000 | 43,038,299,000,000 | 1.456077644 | 1.206648250 |
|  | VOKS | 2019 | 2,280,902,024,124 | 1,284,816,720,522 | 1.775274238 | 1.332366315 |
|  |  | 2020 | 2,173,087,705,411 | 1,180,663,259,903 | 1.840565197 | 1.356650286 |
|  |  | 2021 | 2,138,618,230,319 | 1,765,612,333,045 | 1.211261493 | 1.100545319 |
|  |  | 2022 | 1,909,986,082,577 | 1,837,461,124,059 | 1.0394702 | 1.019509686 |
|  |  | 2023 | 1,953,852,287,572 | 1,467,308,532,113 | 1.331589263 | 1.153689732 |

**Lampiran 8**

**Hasil Perhitungan SPSS**

1. **Analisis Statistik Deskriptif**

|  |
| --- |
| **Descriptive Statistics** |
|  | N | Minimum | Maximum | Mean | Std. Deviation |
| *Operating Capacity* | 145 | .2970 | 1.6472 | .6856 | .35673 |
| *Sales Growth* | 145 | -.5096 | 1.4955 | .0589 | .27459 |
| Arus Kas Operasi | 145 | -.7298 | 1.4598 | .3144 | .40480 |
| Likuiditas | 145 | .3977 | 1.9971 | 1.2899 | .29796 |
| *Financial Distress* | 145 | -1.0209 | 1.9881 | .5639 | .59919 |
| Valid N (listwise) | 145 |  |  |  |  |

1. **Uji Normalitas**
* Grafik Histogram Uji Normalitas



* Grafik *Normal P-P Plot*



* Uji Normalitas dengan metode *Kolmogorov-smirnov*

|  |
| --- |
| ***One-Sample Kolmogorov-Smirnov Test*** |
|  | Unstandardized Residual |
| N | 145 |
| Normal Parametersa,b | Mean | .0000000 |
| Std. Deviation | .38048231 |
| Most Extreme Differences | Absolute | .061 |
| Positive | .061 |
| Negative | -.051 |
| Test Statistic | .061 |
| Asymp. Sig. (2-tailed) | .200c,d |
| a. Test distribution is Normal. |
| b. Calculated from data. |
| c. Lilliefors Significance Correction. |
| d. This is a lower bound of the true significance. |

1. **Uji Multikolonieritas**

|  |
| --- |
| **Coefficientsa** |
| Model | Collinearity Statistics |
| Tolerance | VIF |
| 1 | *Operating Capacity* | .909 | 1.100 |
| *Sales Growth* | .987 | 1.013 |
| Arus Kas Operasi | .854 | 1.171 |
| Likuiditas | .800 | 1.249 |
| a. Dependent Variable: *Financial Distress* |

1. **Uji Autokorelasi**

|  |
| --- |
| **Model Summaryb** |
| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Durbin-Watson |
| 1 | .773a | .597 | .585 | .38588 | 2.097 |
| a. Predictors: (Constant), Likuiditas, *Sales Growth*, *Operating Capacity*, Arus Kas Operasi |
| b. Dependent Variable: *Financial Distress* |

1. **Uji Heteroskedastisitas**
* Uji Heteroskedastisitas dengan Grafik *Scatterplot*



1. **Analisis Regresi Linear Berganda**

|  |
| --- |
| **Coefficientsa** |
| Model | Unstandardized Coefficients | Standardized Coefficients | T | Sig. |
| B | Std. Error | Beta |
| 1 | (Constant) | -1.017 | .149 |  | -6.845 | .000 |
| *Operating Capacity* | .405 | .095 | .241 | 4.284 | .000 |
| *Sales Growth* | .410 | .118 | .188 | 3.477 | .001 |
| Arus Kas Operasi | .540 | .086 | .365 | 6.282 | .000 |
| Likuiditas | .860 | .121 | .428 | 7.130 | .000 |
| a. Dependent Variable: *Financial Distress* |

1. **Uji Parsial (Uji t)**

|  |
| --- |
| **Coefficientsa** |
| Model | Unstandardized Coefficients | Standardized Coefficients | t | Sig. |
| B | Std. Error | Beta |
| 1 | (Constant) | -1.017 | .149 |  | -6.845 | .000 |
| *Operating Capacity* | .405 | .095 | .241 | 4.284 | .000 |
| *Sales Growth* | .410 | .118 | .188 | 3.477 | .001 |
| Arus Kas Operasi | .540 | .086 | .365 | 6.282 | .000 |
| Likuiditas | .860 | .121 | .428 | 7.130 | .000 |
| a. Dependent Variable: *Financial Distress* |

1. **Uji Simultan (Uji F)**

|  |
| --- |
| **ANOVAa** |
| Model | Sum of Squares | df | Mean Square | F | Sig. |
| 1 | Regression | 30.854 | 4 | 7.713 | 51.802 | .000b |
| Residual | 20.846 | 140 | .149 |  |  |
| Total | 51.700 | 144 |  |  |  |
| a. Dependent Variable: *Financial Distress* |
| b. Predictors: (Constant), Likuiditas, *Sales Growth*, *Operating Capacity*, Arus Kas Operasi |

1. **Uji Koefisien Determinasi**

|  |
| --- |
| **Model Summaryb** |
| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Durbin-Watson |
| 1 | .773a | .597 | .585 | .38588 | 2.097 |
| a. Predictors: (Constant), Likuiditas, *Sales Growth*, *Operating Capacity*, Arus Kas Operasi |
| b. Dependent Variable: *Financial Distress* |

**Lampiran 9**

**Tabel t, Tabel F, dan Tabel Durbin Watson**

* **Tabel t**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Pr** | **0.25** | **0.10** | **0.05** | **0.025** | **0.01** | **0.005** | **0.001** |
| **df** | **0.50** | **0.20** | **0.10** | **0.050** | **0.02** | **0.010** | **0.002** |
| **121** | 0.67652 | 1.28859 | 1.65754 | 1.97976 | 2.35756 | 2.61707 | 3.15895 |
| **122** | 0.67651 | 1.28853 | 1.65744 | 1.97960 | 2.35730 | 2.61673 | 3.15838 |
| **123** | 0.67649 | 1.28847 | 1.65734 | 1.97944 | 2.35705 | 2.61639 | 3.15781 |
| **124** | 0.67647 | 1.28842 | 1.65723 | 1.97928 | 2.35680 | 2.61606 | 3.15726 |
| **125** | 0.67646 | 1.28836 | 1.65714 | 1.97912 | 2.35655 | 2.61573 | 3.15671 |
| **126** | 0.67644 | 1.28831 | 1.65704 | 1.97897 | 2.35631 | 2.61541 | 3.15617 |
| **127** | 0.67643 | 1.28825 | 1.65694 | 1.97882 | 2.35607 | 2.61510 | 3.15565 |
| **128** | 0.67641 | 1.28820 | 1.65685 | 1.97867 | 2.35583 | 2.61478 | 3.15512 |
| **129** | 0.67640 | 1.28815 | 1.65675 | 1.97852 | 2.35560 | 2.61448 | 3.15461 |
| **130** | 0.67638 | 1.28810 | 1.65666 | 1.97838 | 2.35537 | 2.61418 | 3.15411 |
| **131** | 0.67637 | 1.28805 | 1.65657 | 1.97824 | 2.35515 | 2.61388 | 3.15361 |
| **132** | 0.67635 | 1.28800 | 1.65648 | 1.97810 | 2.35493 | 2.61359 | 3.15312 |
| **133** | 0.67634 | 1.28795 | 1.65639 | 1.97796 | 2.35471 | 2.61330 | 3.15264 |
| **134** | 0.67633 | 1.28790 | 1.65630 | 1.97783 | 2.35450 | 2.61302 | 3.15217 |
| **135** | 0.67631 | 1.28785 | 1.65622 | 1.97769 | 2.35429 | 2.61274 | 3.15170 |
| **136** | 0.67630 | 1.28781 | 1.65613 | 1.97756 | 2.35408 | 2.61246 | 3.15124 |
| **137** | 0.67628 | 1.28776 | 1.65605 | 1.97743 | 2.35387 | 2.61219 | 3.15079 |
| **138** | 0.67627 | 1.28772 | 1.65597 | 1.97730 | 2.35367 | 2.61193 | 3.15034 |
| **139** | 0.67626 | 1.28767 | 1.65589 | 1.97718 | 2.35347 | 2.61166 | 3.14990 |
| **140** | 0.67625 | 1.28763 | 1.65581 | 1.97705 | 2.35328 | 2.61140 | 3.14947 |
| **141** | 0.67623 | 1.28758 | 1.65573 | 1.97693 | 2.35309 | 2.61115 | 3.14904 |
| **142** | 0.67622 | 1.28754 | 1.65566 | 1.97681 | 2.35289 | 2.61090 | 3.14862 |
| **143** | 0.67621 | 1.28750 | 1.65558 | 1.97669 | 2.35271 | 2.61065 | 3.14820 |
| **144** | 0.67620 | 1.28746 | 1.65550 | 1.97658 | 2.35252 | 2.61040 | 3.14779 |
| **145** | 0.67619 | 1.28742 | 1.65543 | 1.97646 | 2.35234 | 2.61016 | 3.14739 |
| **146** | 0.67617 | 1.28738 | 1.65536 | 1.97635 | 2.35216 | 2.60992 | 3.14699 |
| **147** | 0.67616 | 1.28734 | 1.65529 | 1.97623 | 2.35198 | 2.60969 | 3.14660 |
| **148** | 0.67615 | 1.28730 | 1.65521 | 1.97612 | 2.35181 | 2.60946 | 3.14621 |
| **149** | 0.67614 | 1.28726 | 1.65514 | 1.97601 | 2.35163 | 2.60923 | 3.14583 |
| **150** | 0.67613 | 1.28722 | 1.65508 | 1.97591 | 2.35146 | 2.60900 | 3.14545 |
| **151** | 0.67612 | 1.28718 | 1.65501 | 1.97580 | 2.35130 | 2.60878 | 3.14508 |
| **152** | 0.67611 | 1.28715 | 1.65494 | 1.97569 | 2.35113 | 2.60856 | 3.14471 |
| **153** | 0.67610 | 1.28711 | 1.65487 | 1.97559 | 2.35097 | 2.60834 | 3.14435 |
| **154** | 0.67609 | 1.28707 | 1.65481 | 1.97549 | 2.35081 | 2.60813 | 3.14400 |
| **155** | 0.67608 | 1.28704 | 1.65474 | 1.97539 | 2.35065 | 2.60792 | 3.14364 |

* **Tabel F**

|  |  |
| --- | --- |
| **df untuk****penyebut (N2)** | **df untuk pembilang (N1)** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **136** | 3.91 | 3.06 | 2.67 | 2.44 | 2.28 | 2.17 | 2.08 | 2.01 | 1.95 | 1.90 | 1.86 | 1.82 | 1.79 | 1.77 | 1.74 |
| **137** | 3.91 | 3.06 | 2.67 | 2.44 | 2.28 | 2.17 | 2.08 | 2.01 | 1.95 | 1.90 | 1.86 | 1.82 | 1.79 | 1.76 | 1.74 |
| **138** | 3.91 | 3.06 | 2.67 | 2.44 | 2.28 | 2.16 | 2.08 | 2.01 | 1.95 | 1.90 | 1.86 | 1.82 | 1.79 | 1.76 | 1.74 |
| **139** | 3.91 | 3.06 | 2.67 | 2.44 | 2.28 | 2.16 | 2.08 | 2.01 | 1.95 | 1.90 | 1.86 | 1.82 | 1.79 | 1.76 | 1.74 |
| **140** | 3.91 | 3.06 | 2.67 | 2.44 | 2.28 | 2.16 | 2.08 | 2.01 | 1.95 | 1.90 | 1.86 | 1.82 | 1.79 | 1.76 | 1.74 |
| **141** | 3.91 | 3.06 | 2.67 | 2.44 | 2.28 | 2.16 | 2.08 | 2.00 | 1.95 | 1.90 | 1.86 | 1.82 | 1.79 | 1.76 | 1.74 |
| **142** | 3.91 | 3.06 | 2.67 | 2.44 | 2.28 | 2.16 | 2.07 | 2.00 | 1.95 | 1.90 | 1.86 | 1.82 | 1.79 | 1.76 | 1.74 |
| **143** | 3.91 | 3.06 | 2.67 | 2.43 | 2.28 | 2.16 | 2.07 | 2.00 | 1.95 | 1.90 | 1.86 | 1.82 | 1.79 | 1.76 | 1.74 |
| **144** | 3.91 | 3.06 | 2.67 | 2.43 | 2.28 | 2.16 | 2.07 | 2.00 | 1.95 | 1.90 | 1.86 | 1.82 | 1.79 | 1.76 | 1.74 |
| **145** | 3.91 | 3.06 | 2.67 | 2.43 | 2.28 | 2.16 | 2.07 | 2.00 | 1.94 | 1.90 | 1.86 | 1.82 | 1.79 | 1.76 | 1.74 |
| **146** | 3.91 | 3.06 | 2.67 | 2.43 | 2.28 | 2.16 | 2.07 | 2.00 | 1.94 | 1.90 | 1.85 | 1.82 | 1.79 | 1.76 | 1.74 |
| **147** | 3.91 | 3.06 | 2.67 | 2.43 | 2.28 | 2.16 | 2.07 | 2.00 | 1.94 | 1.90 | 1.85 | 1.82 | 1.79 | 1.76 | 1.73 |
| **148** | 3.91 | 3.06 | 2.67 | 2.43 | 2.28 | 2.16 | 2.07 | 2.00 | 1.94 | 1.90 | 1.85 | 1.82 | 1.79 | 1.76 | 1.73 |
| **149** | 3.90 | 3.06 | 2.67 | 2.43 | 2.27 | 2.16 | 2.07 | 2.00 | 1.94 | 1.89 | 1.85 | 1.82 | 1.79 | 1.76 | 1.73 |
| **150** | 3.90 | 3.06 | 2.66 | 2.43 | 2.27 | 2.16 | 2.07 | 2.00 | 1.94 | 1.89 | 1.85 | 1.82 | 1.79 | 1.76 | 1.73 |

* **Tabel Durbin Watson,** $α$ **= 5%**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| n | k=1 | k=2 | k=3 | k=4 | k=5 |
| dL | dU | dL | dU | dL | dU | dL | dU | dL | dU |
| 137 | 1.7062 | 1.7356 | 1.6914 | 1.7506 | 1.6765 | 1.7659 | 1.6613 | 1.7813 | 1.6461 | 1.7971 |
| 138 | 1.7073 | 1.7365 | 1.6926 | 1.7514 | 1.6778 | 1.7665 | 1.6628 | 1.7819 | 1.6476 | 1.7975 |
| 139 | 1.7084 | 1.7374 | 1.6938 | 1.7521 | 1.6791 | 1.7672 | 1.6642 | 1.7824 | 1.6491 | 1.7979 |
| 140 | 1.7095 | 1.7382 | 1.6950 | 1.7529 | 1.6804 | 1.7678 | 1.6656 | 1.7830 | 1.6507 | 1.7984 |
| 141 | 1.7106 | 1.7391 | 1.6962 | 1.7537 | 1.6817 | 1.7685 | 1.6670 | 1.7835 | 1.6522 | 1.7988 |
| 142 | 1.7116 | 1.7400 | 1.6974 | 1.7544 | 1.6829 | 1.7691 | 1.6684 | 1.7840 | 1.6536 | 1.7992 |
| 143 | 1.7127 | 1.7408 | 1.6985 | 1.7552 | 1.6842 | 1.7697 | 1.6697 | 1.7846 | 1.6551 | 1.7996 |
| 144 | 1.7137 | 1.7417 | 1.6996 | 1.7559 | 1.6854 | 1.7704 | 1.6710 | 1.7851 | 1.6565 | 1.8000 |
| 145 | 1.7147 | 1.7425 | 1.7008 | 1.7566 | 1.6866 | 1.7710 | 1.6724 | 1.7856 | 1.6580 | 1.8004 |
| 146 | 1.7157 | 1.7433 | 1.7019 | 1.7574 | 1.6878 | 1.7716 | 1.6737 | 1.7861 | 1.6594 | 1.8008 |
| 147 | 1.7167 | 1.7441 | 1.7030 | 1.7581 | 1.6890 | 1.7722 | 1.6750 | 1.7866 | 1.6608 | 1.8012 |
| 148 | 1.7177 | 1.7449 | 1.7041 | 1.7588 | 1.6902 | 1.7729 | 1.6762 | 1.7871 | 1.6622 | 1.8016 |
| 149 | 1.7187 | 1.7457 | 1.7051 | 1.7595 | 1.6914 | 1.7735 | 1.6775 | 1.7876 | 1.6635 | 1.8020 |
| 150 | 1.7197 | 1.7465 | 1.7062 | 1.7602 | 1.6926 | 1.7741 | 1.6788 | 1.7881 | 1.6649 | 1.8024 |