

LAMPIRAN

A. LAMPIRAN (Tabulasi data)

PERUSAHAAN MANUFAKTUR BURSA EFEK INDONESIA BERTAHAN PADA (2018-2019)

1	INTP	Indocement Tunggal Prakasa Tbk	Indocement Tunggal Prakasa Tbk
2	SMBR	Semen Baturaja (Persero) Tbk	Semen Baturaja (Persero) Tbk
3	SMCB	Solusi Bangun Indonesia Tbk	Solusi Bangun Indonesia Tbk
4	SMGR	Semen Indonesia (persero) Tbk	Semen Indonesia (persero) Tbk
5	WSBP	Waskita Beton Precast Tbk	Waskita Beton Precast Tbk
6	WTON	Wijaya Karya Beton Tbk	Wijaya Karya Beton Tbk
7	AMFG	Asahimas Flat Glass Tbk	Asahimas Flat Glass Tbk
8	ARNA	Arwana Citra Mulia Tbk	Arwana Citra Mulia Tbk
9	CAKK	Cahayaputra Asa Keramik Tbk	Cahayaputra Asa Keramik Tbk
10	IKAI	Inti Keramik Alam Asri Industri Tbk	Inti Keramik Alam Asri Industri Tbk
11	KIAS	Keramika Indonesia Assosiasi Tbk	Keramika Indonesia Assosiasi Tbk
12	MARK	Mark Dynamics Indonesia Tbk	Mark Dynamics Indonesia Tbk
13	MLIA	Mulia Industrindo Tbk	Mulia Industrindo Tbk
14	TOTO	Surya Toto Indonesia Tbk	Surya Toto Indonesia Tbk
15	ALKA	Alaska Industrindo Tbk	Alaska Industrindo Tbk
16	ALMI	Alumindo Light Metal Industry Tbk	Alumindo Light Metal Industry Tbk
17	BAJA	Saranacentral Bajatama Tbk	Saranacentral Bajatama Tbk
18	BTON	Beton Jaya Manunggal Tbk	Beton Jaya Manunggal Tbk
19	CTBN	Citra Turbindo Tbk	Citra Turbindo Tbk
20	GDST	Gunawan Dianjaya Steel Tbk	Gunawan Dianjaya Steel Tbk

21	INAI	Indal Aluminium Industry Tbk	Indal Aluminium Industry Tbk
22	ISSP	Steel Pipe Industry of Indonesia Tbk	Steel Pipe Industry of Indonesia Tbk
23	JKSW	Jakarta Kyoei Steel Work LTD Tbk	Jakarta Kyoei Steel Work LTD Tbk
24	KRAS	Krakatau Steel (Persero) Tbk	Krakatau Steel (Persero) Tbk
25	LION	Lion Metal Works Tbk	Lion Metal Works Tbk
26	LMSH	Lionmesh Prima Tbk	Lionmesh Prima Tbk
27	NIKL	Pelat Timah Nusantara Tbk	Pelat Timah Nusantara Tbk
28	PICO	Pelangi Indah Canindo Tbk	Pelangi Indah Canindo Tbk
29	TMBS	Tembaga Mulia Semanan Tbk	Tembaga Mulia Semanan Tbk
30	ADMG	Polychem Indonesia Tbk	Polychem Indonesia Tbk
31	AGII	Aneka Gas Industri Tbk	Aneka Gas Industri Tbk
32	BRPT	Barito Pasific Tbk	Barito Pasific Tbk
33	BUDI	Budi Starch & Sweetener Tbk	Budi Starch & Sweetener Tbk
34	DPNS	Duta Pertiwi Nusantara Tbk	Duta Pertiwi Nusantara Tbk
35	EKAD	Ekadharma International Tbk	Ekadharma International Tbk
36	ETWA	Eterindo Wahanatama Tbk	Eterindo Wahanatama Tbk
37	INCI	Intan Wijaya International Tbk	Intan Wijaya International Tbk
38	MDKI	Emdeki Utama Tbk	Emdeki Utama Tbk
39	MOLI	Madusari Murni Indah Tbk	Madusari Murni Indah Tbk
40	SRSN	Indo Acitama Tbk	Indo Acitama Tbk
41	TPIA	Chandra Asri Petrochemical Tbk	Chandra Asri Petrochemical Tbk
42	UNIC	Unggul Indah Cahaya Tbk	Unggul Indah Cahaya Tbk
43	AKKU	Alam Karya Unggul Tbk	Alam Karya Unggul Tbk
44	AKPI	Argha Karya Prima Industry Tbk	Argha Karya Prima Industry Tbk

45	APLI	Asiaplast Industries Tbk	Asiaplast Industries Tbk
46	BRNA	Berlina Tbk	Berlina Tbk
47	FPNI	Lotte Chemical Titan Tbk	Lotte Chemical Titan Tbk
48	IGAR	Champion Pasific Indonesia Tbk	Champion Pasific Indonesia Tbk
49	IMPC	Impack Pratama Industri Tbk	Impack Pratama Industri Tbk
50	IPOL	Indopoly Swakarsa Industry Tbk	Indopoly Swakarsa Industry Tbk
51	PBID	Panca Budi Idaman Tbk	Panca Budi Idaman Tbk
52	TALF	Tunas Alfin Tbk	Tunas Alfin Tbk
53	TRST	Trias Sentosa Tbk	Trias Sentosa Tbk
54	YPAS	Yana Prima Hasta Persada Tbk	Yana Prima Hasta Persada Tbk
55	CPIN	Charoen Pokphand Indonesia Tbk	Charoen Pokphand Indonesia Tbk
56	CPRO	Central Proteina Prima Tbk	Central Proteina Prima Tbk
57	JFA	Japfa Comfeed Indonesia Tbk	Japfa Comfeed Indonesia Tbk
58	MAIN	Malindo Feedmill Tbk	Malindo Feedmill Tbk
59	SIPD	Siearad Produce Tbk	Siearad Produce Tbk
60	SULI	SLJ Global Tbk	SLJ Global Tbk
61	TIRT	Tirta Mahakam Resources Tbk	Tirta Mahakam Resources Tbk
62	ALDO	Alkindo Naratama Tbk	Alkindo Naratama Tbk
63	FASW	Fajar Surya Wisesa Tbk	Fajar Surya Wisesa Tbk
64	INKP	Indah Kiat Pulp & paper Tbk	Indah Kiat Pulp & paper Tbk
65	INRU	Toba Pulp Lestari Tbk	Toba Pulp Lestari Tbk
66	KDSI	Kedawung Setia Industrial Tbk	Kedawung Setia Industrial Tbk
67	SWAT	Sriwahana Adityakarta Tbk	Sriwahana Adityakarta Tbk
68	TKIM	Pabrik Kertas Tjiwi Kimia Tbk	Pabrik Kertas Tjiwi Kimia Tbk

69	AMIN	Ateliers Mecaniques D'Indonesie Tbk	Ateliers Mecaniques D'Indonesie Tbk
70	GMFI	Garuda Maintenance Facility Aero Asia Tbk	Garuda Maintenance Facility Aero Asia Tbk
71	KPAL	Steadfast Marine Tbk	Steadfast Marine Tbk
72	ASII	Astra International Tbk	Astra International Tbk
73	AUTO	Astra Otoparts Tbk	Astra Otoparts Tbk
74	BOLT	Garuda Metalindo Tbk	Garuda Metalindo Tbk
75	BRAM	Indo Kordsa Tbk	Indo Kordsa Tbk
76	GDYR	Goodyear Indonesia Tbk	Goodyear Indonesia Tbk
77	GJTL	Gajah Tunggal Tbk	Gajah Tunggal Tbk
78	IMAS	Indomobil Sukses International Tbk	Indomobil Sukses International Tbk
79	INDS	Indospring Tbk	Indospring Tbk
80	LPIN	Multi Prima Sejahtera Tbk	Multi Prima Sejahtera Tbk
81	MASA	Multistrada Arah Sarana Tbk	Multistrada Arah Sarana Tbk
82	PRAS	Prima alloy steel Universal Tbk	Prima alloy steel Universal Tbk
83	SMSM	Selamat Sempurna Tbk	Selamat Sempurna Tbk
84	ARGO	Argo Pantes Tbk	Argo Pantes Tbk
85	BELL	Trisula Textile Industries Tbk	Trisula Textile Industries Tbk
86	CNTX	Century Textile Industry Tbk	Century Textile Industry Tbk
87	ERTX	Eratex Djaya Tbk	Eratex Djaya Tbk
88	HDTX	Panasia Indo Resources Tbk	Panasia Indo Resources Tbk
89	INDR	Indo Rama Synthetic Tbk	Indo Rama Synthetic Tbk
90	MYTX	Asia Pacific Investama Tbk	Asia Pacific Investama Tbk
91	PBRX	Pan Brothers Tbk	Pan Brothers Tbk

92	POLY	Asia Pasific Fibers Tbk	Golden Flower Tbk.
93	RICY	Ricky Putra Globalindo Tbk	Ricky Putra Globalindo Tbk
94	SRIL	Sri Rejeki Isman Tbk	Sri Rejeki Isman Tbk
95	SSTM	Sunson Textile Manufacturer Tbk	Sunson Textile Manufacturer Tbk
96	TRIS	Trisula International Tbk	Trisula International Tbk
97	ZONE	Mega Perintis Tbk	Mega Perintis Tbk
98	BIMA	Primarindo Asia Infrastructure Tbk	Primarindo Asia Infrastructure Tbk
99	IKBI	Sumi Indo Kabel Tbk	Sumi Indo Kabel Tbk
100	JECC	Jembo Cable Company Tbk	Jembo Cable Company Tbk
101	KBLI	KMI Wire and Cable Tbk	KMI Wire and Cable Tbk
102	KBLM	Kabelindo Murni Tbk	Kabelindo Murni Tbk
103	SCCO	Supreme Cable Manufacturing and Commerce Tbk	Supreme Cable Manufacturing and Commerce Tbk
104	VOKS	Voksel Electric Tbk	Voksel Electric Tbk
105	JSKY	Sky Energy Indonesia Tbk	Sky Energy Indonesia Tbk
106	PTSN	Sat Nusa Persada Tbk	Sat Nusa Persada Tbk
107	AISA	Tiga Pilar Sejahtera Food Tbk	Tiga Pilar Sejahtera Food Tbk
108	ALTO	Tri Banyan Tirta Tbk	Tri Banyan Tirta Tbk
109	BTEK	Bumi Teknokultura Unggul Tbk	Bumi Teknokultura Unggul Tbk
110	CAMP	Campina Ice Cream Industry Tbk	Campina Ice Cream Industry Tbk
111	CEKA	Wilmar Cahaya Indonesia Tbk	Wilmar Cahaya Indonesia Tbk
112	CLEO	Sariguna Primatirta Tbk	Sariguna Primatirta Tbk
113	DLTA	Delta Djakarta Tbk	Delta Djakarta Tbk
114	GOOD	Garudafood Putra Putri Jaya Tbk	Garudafood Putra Putri Jaya Tbk
115	HOKI	Buyung Poetra Sembada Tbk	Buyung Poetra Sembada Tbk

116	ICBP	Indofood CBP Sukses Makmur Tbk	Indofood CBP Sukses Makmur Tbk
117	IIKP	Inti Agri Resources Tbk	Inti Agri Resources Tbk
118	INDF	Indofood Sukses Makmur Tbk	Indofood Sukses Makmur Tbk
119	MLBI	Multi Bintang Indonesia Tbk	Multi Bintang Indonesia Tbk
120	MYOR	Mayora Indah Tbk	Mayora Indah Tbk
121	PANI	Pratama Abadi Nusa Industri Tbk	Pratama Abadi Nusa Industri Tbk
122	PCAR	Prima Cakrawala Abadi Tbk	Prima Cakrawala Abadi Tbk
123	PSDN	Prashida Aneka Niaga Tbk	Prashida Aneka Niaga Tbk
124	ROTI	Nippon Indosari Corporindo Tbk	Nippon Indosari Corporindo Tbk
125	SKMB	Sekar Bumi Tbk	Sekar Bumi Tbk
126	SKLT	Sekar Laut Tbk	Sekar Laut Tbk
127	STTP	Siantar Top Tbk	Siantar Top Tbk
128	ULTJ	Ultrajaya Milk Industry and Trading Company Tbk	Ultrajaya Milk Industry and Trading Company Tbk
129	GGRM	Gudang Garam Tbk	Gudang Garam Tbk
130	HMSP	Handjaya Mandala Sampoerna Tbk	Handjaya Mandala Sampoerna Tbk
131	RMBA	Bentoel International Investama Tbk	Bentoel International Investama Tbk
132	WIIM	Wismilak Inti Makmur Tbk	Wismilak Inti Makmur Tbk
133	DVLA	Darya Varia Laboratoria Tbk	Darya Varia Laboratoria Tbk
134	INAF	Indofarma (Persero) Tbk	Indofarma (Persero) Tbk
135	KAEF	Kimia Farma (Persero) Tbk	Kimia Farma (Persero) Tbk
136	KLBF	Kalbe Farma Tbk	Kalbe Farma Tbk
137	PEHA	Phapros Tbk.	Phapros Tbk.
138	PYFA	Pyridam Farma Tbk	Pyridam Farma Tbk

139	SIDO	Industri Jamu & Farmasi Sido Muncul Tbk	Industri Jamu & Farmasi Sido Muncul Tbk
140	TSPC	Tempo Scan Pasific Tbk	Tempo Scan Pasific Tbk
141	ADES	Akasha Wira International Tbk	Akasha Wira International Tbk
142	KINO	Kino Indonesia Tbk	Kino Indonesia Tbk
143	MBTO	Martina Berto Tbk	Martina Berto Tbk
144	MRAT	Mustika Ratu Tbk	Mustika Ratu Tbk
145	TCID	Mandom Indonesia Tbk	Mandom Indonesia Tbk
146	UNVR	Unilever Indonesia Tbk	Unilever Indonesia Tbk
147	CINT	Chitose Internatonal Tbk	Chitose Internatonal Tbk
148	KICI	Kedaung Indah Can Tbk	Kedaung Indah Can Tbk
149	LMPI	Langgeng Makmur Industry Tbk	Langgeng Makmur Industry Tbk
150	WOOD	Integra Indocabinet Tbk	Integra Indocabinet Tbk

	PERUSAHAAN	KODE	TAHUN	RISK DISCOSURE (X)	EFFICIENCY INVESTMENT (Y)	KEPEMILIKAN KELUARGA (Z)
1	Indocement Tunggul Prakasa Tbk	INTP	2018	0.450	-0.12279	0
			2019	0.450	0.01702	0
2	Semen Baturaja (Persero) Tbk	SMBR	2018	0.250	0.11093	0
			2019	0.225	-0.03142	0
3	Solusi Bangun Indonesia Tbk	SMCB	2018	0.375	-0.06929	0
			2019	0.325	0.03426	0
4	Semen Indonesia (persero) Tbk	SMGR	2018	0.325	-0.07214	0
			2019	0.325	0.27569	0
5	Waskita Beton	WSBP	2018	0.400	-0.04930	0

	Precast Tbk		2019	0.425	-0.10989	0
6	Wijaya Karya Beton Tbk	WTON	2018	0.350	0.11707	0
			2019	0.350	-0.01019	0
7	Asahimas Flat Glass Tbk	AMFG	2018	0.350	-0.03201	0
			2019	0.325	-0.06988	0
8	Arwana Citra Mulia Tbk	ARNA	2018	0.650	-0.03780	0
			2019	0.575	0.05975	0
9	Cahayaputra Asa Keramik Tbk	CAKK	2018	0.550	0.11962	0
			2019	0.475	0.00517	0
10	Inti Keramik Alam Asri Industri Tbk	IKAI	2018	0.700	-0.32748	0
			2019	0.675	-0.25837	0
11	Keramika Indonesia Assosiasi Tbk	KIAS	2018	0.275	-0.09405	0
			2019	0.225	-0.19160	0
12	Mark Dynamics Indonesia Tbk	MARK	2018	0.700	0.18188	0
			2019	0.675	0.05195	0
13	Mulia Industrindo Tbk	MLIA	2018	0.325	-0.28720	0
			2019	0.375	-0.33616	0
14	Surya Toto Indonesia Tbk	TOTO	2018	0.425	-0.15123	0
			2019	0.425	-0.10899	0
15	Alaska Industrindo Tbk	ALKA	2018	0.575	0.68325	0
			2019	0.525	-0.41355	0
16	Alumindo Light Metal Industry Tbk	ALMI	2018	0.550	0.09375	0
			2019	0.475	-0.52424	0
17	Saranacentral Bajatama Tbk	BAJA	2018	0.325	-0.12494	0
			2019	0.325	-0.19270	0

18	Beton Jaya Manunggal Tbk	BTON	2018	0.400	0.15954	1
			2019	0.425	0.00977	1
19	Citra Turbindo Tbk	CTBN	2018	0.300	0.54382	1
			2019	0.275	0.64587	1
20	Gunawan Dianjaya Steel Tbk	GDST	2018	0.575	-0.06700	1
			2019	0.525	0.11560	1
21	Indal Aluminium Industry Tbk	INAI	2018	0.625	-0.02240	1
			2019	0.550	0.04709	1
22	Steel Pipe Industry of Indonesia Tbk	ISSP	2018	0.700	0.04431	0
			2019	0.650	0.03872	0
23	Jakarta Kyoei Steel Work LTD Tbk	JKSW	2018	0.325	-116216.00000	0
			2019	0.375	-0.64774	0
24	Krakatau Steel (Persero) Tbk	KRAS	2018	0.700	0.02507	0
			2019	0.675	0.04203	0
25	Lion Metal Works Tbk	LION	2018	0.400	0.03746	0
			2019	0.375	-0.15254	0
26	Lionmesh Prima Tbk	LMSH	2018	0.650	-0.10561	0
			2019	0.575	-0.29037	0
27	Pelat Timah Nusantara Tbk	NIKL	2018	0.700	-0.07953	0
			2019	0.675	-0.03145	0
28	Pelangi Indah Canindo Tbk	PICO	2018	0.575	-0.13666	0
			2019	0.600	-0.03861	0
29	Tembaga Mulia Semanan Tbk	TMBS	2018	0.625	0.01174	0
			2019	0.575	-0.27037	0
30	Polychem	ADM	2018	0.575	-0.03388	0

	Indonesia Tbk	G	2019	0.600	-0.37754	0
31	Aneka Gas Industri Tbk	AGII	2018	0.425	-0.04769	0
			2019	0.425	0.02899	0
32	Barito Pasific Tbk	BRPT	2018	0.700	-0.07574	0
			2019	0.650	-0.25384	0
33	Budi Starch & Sweetener Tbk	BUDI	2018	0.425	-0.12100	0
			2019	0.425	0.10160	0
34	Duta Pertiwi Nusantara Tbk	DPNS	2018	0.300	0.11289	0
			2019	0.275	-0.19984	0
35	Ekadharma International Tbk	EKAD	2018	0.575	-0.02627	0
			2019	0.525	-0.00670	0
36	Eterindo Wahanatama Tbk	ETWA	2018	0.400	-0.71265	0
			2019	0.375	834029.00000	0
37	Intan Wijaya International Tbk	INCI	2018	0.675	0.18889	1
			2019	0.625	0.00575	1
38	Emdeki Utama Tbk	MDKI	2018	0.525	-0.09115	0
			2019	0.525	-0.16921	0
39	Madusari Murni Indah Tbk	MOLI	2018	0.300	-0.12408	1
			2019	0.275	-0.08835	1
40	Indo Acitama Tbk	SRSN	2018	0.425	-0.02354	1
			2019	0.425	0.10719	1
41	Chandra Asri Petrochemical Tbk	TPIA	2018	0.700	-0.10516	1
			2019	0.650	-0.29158	1
42	Unggul Indah Cahaya Tbk	UNIC	2018	0.625	-0.05562	0
			2019	0.575	-0.11202	0
43	Alam Karya	AKKU	2018	0.500	509234.00000	0

	Unggul Tbk		2019	0.550	-0.83027	0
44	Argha Karya Prima Industry Tbk	AKPI	2018	0.425	-0.01919	0
			2019	0.425	-0.08878	0
45	Asiaplast Industries Tbk	APLI	2018	0.350	-0.02939	0
			2019	0.350	-0.05068	0
46	Berlina Tbk	BRNA	2018	0.500	-0.16861	0
			2019	0.500	-0.10510	0
47	Lotte Chemical Titan Tbk	FPNI	2018	0.425	-0.15504	0
			2019	0.425	-0.26684	0
48	Champion Pasific Indonesia Tbk	IGAR	2018	0.425	-0.15522	0
			2019	0.425	-0.03371	0
49	Impack Pratama Industri Tbk	IMPC	2018	0.425	-0.00589	0
			2019	0.425	0.03836	0
50	Indopoly Swakarsa Industry Tbk	IPOL	2018	0.625	-0.09216	0
			2019	0.575	-0.06979	0
51	Panca Budi Idaman Tbk	PBID	2018	0.375	0.07193	1
			2019	0.350	-0.01135	1
52	Tunas Alfin Tbk	TALF	2018	0.225	-0.02842	0
			2019	0.200	0.21459	0
53	Trias Sentosa Tbk	TRST	2018	0.400	-0.05823	0
			2019	0.375	-0.05698	0
54	Yana Prima Hasta Persada Tbk	YPAS	2018	0.325	0.10763	0
			2019	0.325	0.03273	0
55	Charoen Pokphand Indonesia Tbk	CPIN	2018	0.275	-0.08244	1
			2019	0.275	0.05183	1

56	Central Proteina Prima Tbk	CPRO	2018	0.425	-0.05146	0
			2019	0.450	-0.06006	0
57	Japfa Comfeed Indonesia Tbk	JFA	2018	0.300	-0.02645	0
			2019	0.325	0.04413	0
58	Malindo Feedmill Tbk	MAIN	2018	0.650	0.03355	1
			2019	0.600	0.07638	1
59	Searad Produce Tbk	SIPD	2018	0.600	0.09827	0
			2019	0.525	0.28407	0
60	SLJ Global Tbk	SULI	2018	0.425	0.24577	0
			2019	0.450	-0.32417	0
61	Tirta Mahakam Resources Tbk	TIRT	2018	0.475	0.13530	0
			2019	0.475	-0.41262	0
62	Alkindo Naratama Tbk	ALDO	2018	0.425	0.48723	0
			2019	0.375	-0.12644	0
63	Fajar Surya Wisesa Tbk	FASW	2018	0.325	0.17908	0
			2019	0.325	-0.19553	0
64	Indah Kiat Pulp & paper Tbk	INKP	2018	0.275	-0.08967	0
			2019	0.275	-0.06413	0
65	Toba Pulp Lestari Tbk	INRU	2018	0.375	-0.17913	0
			2019	0.350	-0.18440	0
66	Kedawung Setia Industrial Tbk	KDSI	2018	0.650	-0.13872	0
			2019	0.600	-0.07397	0
67	Sriwahana Adityakarta Tbk	SWAT	2018	0.300	0.11576	1
			2019	0.300	0.14785	1
68	Pabrik Kertas Tjiwi Kimia Tbk	TKIM	2018	0.450	-0.13184	0
			2019	0.450	-0.03919	0

69	Ateliers Mecaniques D'Indonesie Tbk	AMIN	2018	0.300	-0.02274	1
			2019	0.275	0.01238	1
70	Garuda Maintenance Facility Aero Asia Tbk	GMFI	2018	0.450	-0.08686	0
			2019	0.425	0.07719	0
71	Steadfast Marine Tbk	KPAL	2018	0.275	-0.86230	1
			2019	0.275	-0.10227	1
72	Astra International Tbk	ASII	2018	0.300	-0.01456	0
			2019	0.325	-0.04096	0
73	Astra Otoparts Tbk	AUTO	2018	0.375	-0.04208	0
			2019	0.350	-0.02679	0
74	Garuda Metalindo Tbk	BOLT	2018	0.300	-0.04227	1
			2019	0.300	-0.01461	1
75	Indo Kordsa Tbk	BRAM	2018	0.450	-0.08031	0
			2019	0.450	-0.11214	0
76	Goodyear Indonesia Tbk	GDYR	2018	0.350	-0.18364	0
			2019	0.325	-0.15675	0
77	Gajah Tunggal Tbk	GJTL	2018	0.425	-0.09037	0
			2019	0.375	0.00624	0
78	Indomobil Sukses International Tbk	IMAS	2018	0.450	-0.01580	0
			2019	0.425	0.00687	0
79	Indospring Tbk	INDS	2018	0.525	0.04414	0
			2019	0.525	-0.16221	0
80	Multi Prima Sejahtera Tbk	LPIN	2018	0.475	-0.25056	0
			2019	0.475	-0.10196	0
81	Multistrada Arah	MASA	2018	0.500	-0.09407	0

	Sarana Tbk		2019	0.500	0.04035	0
82	Prima alloy steel Universal Tbk	PRAS	2018	0.600	0.47429	0
			2019	0.525	-0.43718	0
83	Selamat Sempurna Tbk	SMSM	2018	0.300	0.00224	0
			2019	0.300	-0.03174	0
84	Argo Pantas Tbk	ARGO	2018	0.700	-0.22830	0
			2019	0.650	-0.40497	0
85	Trisula Textile Industries Tbk	BELL	2018	0.325	0.08289	1
			2019	0.325	-0.03105	1
86	Century Textile Industry Tbk	CNTX	2018	0.500	0.05144	0
			2019	0.450	0.19565	0
87	Eratex Djaya Tbk	ERTX	2018	0.425	-0.09748	0
			2019	0.425	0.08789	0
88	Panasia Indo Resources Tbk	HDTX	2018	0.425	-0.76707	0
			2019	0.350	-101449.00000	0
89	Indo Rama Synthetic Tbk	INDR	2018	0.700	-0.07689	0
			2019	0.675	-0.11577	0
90	Asia Pacific Investama Tbk	MYTX	2018	0.675	0.24341	1
			2019	0.650	-0.23908	1
91	Pan Brothers Tbk	PBRX	2018	0.350	-0.04230	0
			2019	0.325	0.05834	0
92	Asia Pasific Fibers Tbk	POLY	2018	0.650	0.04451	0
			2019	0.600	-0.19463	0
93	Ricky Putra Globalindo Tbk	RICY	2018	0.500	0.14165	0
			2019	0.450	-0.01073	0
94	Sri Rejeki Isman	SRIL	2018	0.425	0.21026	0

	Tbk		2019	0.350	0.11371	0
95	Sunson Textile Manufacturer Tbk	SSTM	2018	0.425	0.01772	1
			2019	0.425	-0.18923	1
96	Trisula International Tbk	TRIS	2018	0.625	-0.06315	0
			2019	0.575	0.02341	0
97	Mega Perintis Tbk	ZONE	2018	0.325	-0.02750	1
			2019	0.325	0.28252	1
98	Primarindo Asia Infrastructure Tbk	BIMA	2018	0.575	-0.22469	0
			2019	0.525	-0.16513	0
99	Sumi Indo Kabel Tbk	IKBI	2018	0.425	0.38157	0
			2019	0.350	-0.01656	0
100	Jembo Cable Company Tbk	JECC	2018	0.425	0.29291	0
			2019	0.425	-0.11873	0
101	KMI Wire and Cable Tbk	KBLI	2018	0.450	0.15510	0
			2019	0.450	0.03032	0
102	Kabelindo Murni Tbk	KBLM	2018	0.350	-0.15238	1
			2019	0.325	-0.10748	1
103	Supreme Cable Manufacturing and Commerce Tbk	SCCO	2018	0.500	-0.01331	0
			2019	0.500	0.07373	0
104	Voksel Electric Tbk	VOKS	2018	0.350	0.01326	0
			2019	0.350	-0.03843	0
105	Sky Energy Indonesia Tbk	JSKY	2018	0.475	-0.15533	0
			2019	0.450	-0.13923	0
106	Sat Nusa Persada Tbk	PTSN	2018	0.325	336924.00000	0
			2019	0.325	-0.17850	0

107	Tiga Pilar Sejahtera Food Tbk	AISA	2018	0.500	-0.36372	0
			2019	0.500	-0.08910	0
108	Tri Banyan Tirta Tbk	ALTO	2018	0.500	-0.06810	0
			2019	0.450	0.13786	0
109	Bumi Teknokultura Unggul Tbk	BTEK	2018	0.600	-0.17220	0
			2019	0.525	-0.24655	0
110	Campina Ice Cream Industry Tbk	CAMP	2018	0.475	-0.15818	0
			2019	0.475	0.03621	0
111	Wilmar Cahaya Indonesia Tbk	CEKA	2018	0.625	-0.32300	0
			2019	0.575	-0.17134	0
112	Sariguna Primatirta Tbk	CLEO	2018	0.600	0.17663	0
			2019	0.600	0.26491	0
113	Delta Djakarta Tbk	DLTA	2018	0.475	-0.02656	0
			2019	0.475	-0.10479	0
114	Garudafood Putra Putri Jaya Tbk	GOOD	2018	0.300	-0.09948	1
			2019	0.300	0.01772	1
115	Buyung Poetra Sembada Tbk	HOKI	2018	0.700	0.00780	0
			2019	0.650	0.10573	0
116	Indofood CBP Sukses Makmur Tbk	ICBP	2018	0.325	-0.09662	0
			2019	0.325	0.04966	0
117	Inti Agri Resources Tbk	IHKP	2018	0.275	-0.34403	0
			2019	0.275	0.08356	0
118	Indofood Sukses Makmur Tbk	INDF	2018	0.375	-0.12973	0
			2019	0.375	0.01260	0
119	Multi Bintang	MLBI	2018	0.425	-0.12083	0

	Indonesia Tbk		2019	0.425	0.00283	0
120	Mayora Indah Tbk	MYOR	2018	0.500	-0.01958	1
			2019	0.500	-0.01478	1
121	Pratama Abadi Nusa Industri Tbk	PANI	2018	0.325	0.40990	0
			2019	0.325	-0.01005	0
122	Prima Cakrawala Abadi Tbk	PCAR	2018	0.375	0.12789	0
			2019	0.425	-0.67911	0
123	Prashida Aneka Niaga Tbk	PSDN	2018	0.350	-0.22223	0
			2019	0.325	-0.12222	0
124	Nippon Indosari Corporindo Tbk	ROTI	2018	0.425	-0.06485	0
			2019	0.425	0.17058	0
125	Sekar Bumi Tbk	SKMB	2018	0.350	-0.11436	0
			2019	0.325	0.03763	0
126	Sekar Laut Tbk	SKLT	2018	0.500	-0.03232	0
			2019	0.500	0.17837	0
127	Siantar Top Tbk	STTP	2018	0.325	-0.17488	0
			2019	0.275	0.20910	0
128	Ultrajaya Milk Industry and Trading Company Tbk	ULTJ	2018	0.400	-0.05387	1
			2019	0.425	0.10805	1
129	Gudang Garam Tbk	GGRM	2018	0.475	-0.02655	1
			2019	0.475	0.12146	1
130	Handjaya Mandala Sampoerna Tbk	HMSP	2018	0.475	-0.10512	0
			2019	0.450	-0.02428	0
131	Bentoel International Investama Tbk	RMBA	2018	0.325	-0.09327	0
			2019	0.275	-0.08104	0

132	Wismilak Inti Makmur Tbk	WIIM	2018	0.575	-0.22354	1
			2019	0.525	-0.07165	1
133	Darya Varia Laboratoria Tbk	DVLA	2018	0.600	-0.09670	0
			2019	0.525	0.03304	0
134	Indofarma (Persero) Tbk	INAF	2018	0.475	-0.19893	0
			2019	0.450	-0.17642	0
135	Kimia Farma (Persero) Tbk	KAEF	2018	0.325	0.04529	0
			2019	0.325	0.07188	0
136	Kalbe Farma Tbk	KLBF	2018	0.500	-0.13122	0
			2019	0.500	0.03931	0
137	Phapros Tbk.	PEHA	2018	0.350	-0.15473	0
			2019	0.325	0.04928	0
138	Pyridam Farma Tbk	PYFA	2018	0.275	-0.05237	1
			2019	0.275	-0.04471	1
139	Industri Jamu & Farmasi Sido Muncul Tbk	SIDO	2018	0.475	-0.10182	1
			2019	0.475	0.07773	1
140	Tempo Scan Pasific Tbk	TSPC	2018	0.575	-0.12078	0
			2019	0.525	0.06065	0
141	Akasha Wira International Tbk	ADES	2018	0.400	-0.18792	0
			2019	0.350	0.00600	0
142	Kino Indonesia Tbk	KINO	2018	0.300	-0.03271	0
			2019	0.300	0.26180	0
143	Martina Berto Tbk	MBTO	2018	0.350	-0.48851	0
			2019	0.350	0.03740	0
144	Mustika Ratu Tbk	MRAT	2018	0.500	-0.30336	0
			2019	0.500	-0.01535	0

145	Mandom Indonesia Tbk	TCID	2018	0.500	-0.19669	0
			2019	0.450	0.02556	0
146	Unilever Indonesia Tbk	UNVR	2018	0.275	-0.16091	0
			2019	0.275	-0.00684	0
147	Chitose Internatonal Tbk	CINT	2018	0.525	-0.18494	1
			2019	0.500	0.07997	1
148	Kedaung Indah Can Tbk	KICI	2018	0.275	-0.40904	0
			2019	0.275	0.01701	0
149	Langgeng Makmur Industry Tbk	LMPI	2018	0.400	-0.06739	1
			2019	0.400	0.07581	1
150	Integra Indocabinet Tbk	WOO D	2018	0.425	0.03602	0
			2019	0.425	-0.01697	0

x ke y normalitas

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		295
Normal Parameters ^{a,b}	Mean	0E-7
	Std. Deviation	1.09749113
	Absolute	.068
Most Extreme Differences	Positive	.027
	Negative	-.068
Kolmogorov-Smirnov Z		1.171
Asymp. Sig. (2-tailed)		.129

a. Test distribution is Normal.

b. Calculated from data.

	(Constant)	-2.231	.206		-10.810	.000		
1	L.X	.292	.232	.074	1.261	.208	.990	1.010
	Family ownership	-.160	.162	-.058	-.987	.324	.990	1.010

a. Dependent Variable: L.Y

hetero x dan y

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	T	Sig.	Collinearity Statistics	
	B	Std. Error	Beta			Tolerance	VIF
1	(Constant)	.771	.124	6.201	.000		
	L.X	-.120	.139	-.860	.391	1.000	1.000

a. Dependent Variable: ARES

hetero x, z, y

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics		
	B	Std. Error	Beta			Tolerance	VIF	
1	(Constant)	.776	.125	6.219	.000			
	L.X	-.128	.140	-.914	.362	.990	1.010	
	Family ownership	-.058	.098	-.035	-.595	.552	.990	1.010

a. Dependent Variable: ARES

analisis regresi x y

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	-2.243	.206		-10.888	.000
L.X	.315	.230	.080	1.367	.173

a. Dependent Variable: L.Y

x y z

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
	B	Std. Error	Beta			Tolerance	VIF
1 (Constant)	-2.231	.206		-10.810	.000		
L.X	.292	.232	.074	1.261	.208	.990	1.010
Family ownership	-.160	.162	-.058	-.987	.324	.990	1.010

a. Dependent Variable: L.Y

uji f x dan y

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	2.258	1	2.258	1.868	.173 ^b
Residual	354.119	293	1.209		
Total	356.377	294			

a. Dependent Variable: L.Y

b. Predictors: (Constant), L.X

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	3.435	2	1.718	1.421	.243 ^b
	Residual	352.942	292	1.209		
	Total	356.377	294			

a. Dependent Variable: L.Y

b. Predictors: (Constant), Family ownership, L.X

determinasi x dan y

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.080 ^a	.006	.003	1.09936

a. Predictors: (Constant), L.X

b. Dependent Variable: L.Y

determinasi x y z

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.098 ^a	.010	.003	1.09941

a. Predictors: (Constant), Family ownership, L.X

b. Dependent Variable: L.Y

Family ownership

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 0	237	80.3	80.3	80.3
Valid 1	58	19.7	19.7	100.0
Total	295	100.0	100.0	

