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LAMPIRAN

Lampiran 1**BIODATA DIRI****1. Identitas Diri**

Nama : Khaerunnisa
Tempat, Tanggal Lahir : Maros, 31 Juli 2000
Jenis Kelamin : Perempuan
Alamat : Cenrana, Kabupaten Maros
Telepon : 082346142057
Alamat E-mail : Khaerunnisa.saa@gmail.com

2. Riwayat Pendidikan**- Pendidikan Formal**

Sekolah Dasar : SDN 77 Mahaka (2007-2013)
SLTP : SMPN 25 Cenrana (2013-2016)
SLTA : SMAN 12 Maros (2016-2019)
Perguruan Tinggi : S1 Manajemen FEB-UNHAS (2019-2023)

- Pendidikan Non-Formal

Pelatihan Basic Learning Skills, Character and Creativity di Universitas Hasauddin (2019)

3. Riwayat Organisasi

- IMMAJ FEB-UH
- KSEI FoSEI UNHAS
- HPPMI Komisariat Unhas-PNUP

Demikian biodata ini dibuat dengan sebenarnya.

Makassar, 20 Februari 2023



Khaerunnisa

Lampiran 2

TANGGAL PENGUMUMAN DIVIDEN PERUSAHAAN TAHUN 2019-2020

No.	Kode Perusahaan	Nama Perusahaan	Pengumuman Dividen			
			2019		2020	
			Cum-date	Ex-date	Cum-date	Ex-date
1.	BMRI	PT Bank Mandiri (Persero) Tbk	24/05/2019	27/05/2019	27/02/2020	28/02/2020
2.	BBNI	PT Bank Negara Indonesia (Persero) Tbk	21/05/2019	22/05/2019	28/02/2020	03/02/2020
3.	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	23/05/2019	24/05/2019	26/02/2020	27/02/2020
4.	BBTN	PT Bank Tabungan Negara (Persero) Tbk	27/05/2019	28/05/2019	20/03/2020	23/03/2020
5.	ADHI	PT Adhi Karya (Persero) Tbk	17/05/2019	20/05/2019	12/06/2020	15/06/2020
6.	SMBR	PT Semen Baturaja (Persero) Tbk	24/05/2019	27/05/2019	13/08/2020	14/08/2020
7.	JSMR	PT Jasa Marga (Persero) Tbk	14/05/2019	15/05/2019	19/06/2020	22/06/2020
8.	PTPP	PT PP (Persero) Tbk	05/09/2019	05/10/2019	12/06/2020	15/06/2020
9.	SMGR	PT Semen Indonesia (Persero) Tbk	06/07/2019	06/10/2019	29/06/2020	30/06/2020
10.	WSKT	PT Waskita Karya (Persero) Tbk	17/05/2019	20/05/2019	15/06/2020	16/06/2020
11.	WIKA	PT Wijaya Karya (Persero) Tbk	05/09/2019	05/10/2019	16/06/2020	17/06/2020
12.	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	06/11/2019	06/12/2019	29/06/2020	30/06/2020

Sumber: www.investing.com , website resmi perusahaan (data diolah, 2022)

Lampiran 3

3.1 JUMLAH SAHAM BEREDAR & SAHAM YANG DIPERDAGANGKAN SEBELUM DAN SESUDAH PENGUMUMAN DIVIDEN TAHUN 2019

No.	Kode Perusahaan	Nama Perusahaan	Saham Beredar (lembar) Tahun 2019	Saham yang diperdagangkan (lembar) Tahun 2019									
				t-10	t-9	t-8	t-7	t-6	t-5	t-4	t-3	t-2	t-1
1.	BMRI	PT Bank Mandiri (Persero) Tbk	46,199,999,998	41,671,400	42,991,900	56,486,200	43,240,500	29,858,300	46,723,600	64,438,600	44,126,500	32,834,400	49,575,600
2.	BBNI	PT Bank Negara Indonesia (Persero) Tbk	18,462,169,893	20,841,200	34,914,900	22,575,600	10,355,000	34,222,700	45,353,000	18,224,200	30,723,600	21,827,500	39,155,400
3.	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	122,112,351,900	120,282,900	71,877,200	115,090,400	167,394,600	144,094,800	155,199,000	165,275,800	206,532,500	118,633,800	209,226,900
4.	BBTN	PT Bank Tabungan Negara (Persero) Tbk	10,484,100,000	18,038,800	12,662,500	16,464,700	9,064,500	20,595,100	17,916,600	5,319,700	11,430,300	14,984,600	29,097,600
5.	ADHI	PT Adhi Karya (Persero) Tbk	3,560,849,376	8,832,000	5,315,300	4,997,100	7,987,800	6,165,400	8,783,800	5,283,500	10,866,100	5,028,400	5,738,700
6.	SMBR	PT Semen Baturaja (Persero) Tbk	9,932,534,336	497,400	827,800	791,000	949,600	415,200	306,800	829,200	132,600	697,600	18,725,200
7.	JSMR	PT Jasa Marga (Persero) Tbk	7,257,871,200	0	5,861,700	7,831,400	7,094,000	6,939,500	6,404,200	4,830,300	3,904,000	6,812,100	6,697,200
8.	PTPP	PT PP (Persero) Tbk	6,199,897,354	19,636,500	26,508,500	19,065,900	0	21,235,500	30,274,600	25,709,200	16,201,400	6,898,200	26,781,200
9.	SMGR	PT Semen Indonesia (Persero) Tbk	5,931,520,000	8,241,700	11,674,100	7,786,400	0	9,457,200	0	0	0	0	0
10.	WSKT	PT Waskita Karya (Persero) Tbk	13,573,951,000	28,956,900	17,062,500	10,661,200	32,168,800	30,224,600	16,263,500	36,979,800	58,290,800	29,075,000	56,411,800
11.	WIKA	PT Wijaya Karya (Persero) Tbk	8,969,951,372	23,643,100	47,572,000	31,863,600	0	30,461,900	36,444,800	21,093,500	26,333,200	10,348,000	20,451,900
12.	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	99,062,216,600	122,534,500	0	194,331,700	0	0	0	0	0	222,522,800	88,861,700

No.	Kode Perusahaan	Nama Perusahaan	Saham Beredar (lembar) Tahun 2019	Saham yang diperdagangkan (lembar) Tahun 2019									
				t+1	t+2	t+3	t+4	t+5	t+6	t+7	t+8	t+9	t+10
1.	BMRI	PT Bank Mandiri (Persero) Tbk	46,199,999,998	72,305,500	149,390,400	44,698,700	0	86,726,500	0	0	0	0	0
2.	BBNI	PT Bank Negara Indonesia (Persero) Tbk	18,462,169,893	20,428,500	21,607,800	24,187,400	16,123,400	111,256,000	39,146,400	0	44,580,400	0	0
3.	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	122,112,351,900	150,398,400	123,578,400	376,621,800	139,713,200	0	261,104,200	0	0	0	0
4.	BBTN	PT Bank Tabungan Negara (Persero) Tbk	10,484,100,000	42,379,000	9,674,700	0	30,470,600	0	0	0	0	0	34,713,400
5.	ADHI	PT Adhi Karya (Persero) Tbk	3,560,849,376	4,355,700	7,443,700	1,716,900	7,949,800	4,737,000	5,228,600	9,755,600	4,580,500	0	7,126,100
6.	SMBR	PT Semen Baturaja (Persero) Tbk	9,932,534,336	710,700	417,300	1,071,100	0	952,500	0	0	0	0	0
7.	JSMR	PT Jasa Marga (Persero) Tbk	7,257,871,200	3,205,500	3,252,600	2,376,500	5,313,600	6,904,800	1,858,900	2,770,100	4,220,300	7,203,700	25,276,600
8.	PTPP	PT PP (Persero) Tbk	6,199,897,354	21,398,400	30,192,000	81,358,000	68,577,400	35,166,400	80,410,600	35,325,300	33,149,500	7,598,000	53,310,000
9.	SMGR	PT Semen Indonesia (Persero) Tbk	5,931,520,000	13,000,300	13,226,300	6,799,900	6,928,700	4,614,400	3,749,200	9,505,000	0	12,831,800	16,849,100
10.	WSKT	PT Waskita Karya (Persero) Tbk	13,573,951,000	49,893,400	47,917,200	14,132,500	38,679,000	19,586,000	32,146,000	15,288,600	17,136,000	0	30,907,300
11.	WIKA	PT Wijaya Karya (Persero) Tbk	8,969,951,372	27,424,800	14,418,100	36,039,000	30,586,000	32,899,400	59,275,200	33,048,400	38,324,900	12,387,000	42,724,900
12.	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	99,062,216,600	134,724,400	115,734,700	92,466,800	60,851,700	66,112,800	0	57,673,700	154,049,700	50,525,100	42,601,100

Sumber: www.idx.co.id , <http://finance.yahoo.com> (data diolah, 2022)

3.2 JUMLAH SAHAM BEREDAR & SAHAM YANG DIPERDAGANGKAN SEBELUM DAN SESUDAH PENGUMUMAN DIVIDEN TAHUN 2020

No.	Kode Perusahaan	Nama Perusahaan	Saham Beredar (lembar) Tahun 2020	Saham yang diperdagangkan (lembar) Tahun 2020									
				t-10	t-9	t-8	t-7	t-6	t-5	t-4	t-3	t-2	t-1
1.	BMRI	PT Bank Mandiri (Persero) Tbk	46,199,999,998	20,672,600	14,908,300	32,721,000	60,807,100	57,268,800	45,899,000	64,384,400	52,975,900	99,085,500	111,544,300
2.	BBNI	PT Bank Negara Indonesia (Persero) Tbk	18,462,169,893	14,490,000	23,322,900	25,852,300	35,928,100	47,223,000	29,756,400	16,988,100	36,227,700	29,663,200	52,147,500
3.	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	122,112,351,900	79,710,700	127,004,900	119,759,900	88,694,500	100,810,700	98,180,400	106,960,700	102,908,000	113,929,600	149,197,600
4.	BBTN	PT Bank Tabungan Negara (Persero) Tbk	10,484,100,000	18,762,200	36,179,700	28,141,800	21,653,200	28,367,300	14,903,000	63,602,600	48,495,600	48,347,000	55,311,800
5.	ADHI	PT Adhi Karya (Persero) Tbk	3,560,849,376	35,426,600	26,157,900	34,716,300	144,799,600	75,503,300	121,616,500	121,097,600	33,337,400	32,013,300	36,832,100
6.	SMBR	PT Semen Baturaja (Persero) Tbk	9,932,534,336	61,325,800	42,271,500	28,176,500	170,825,800	174,405,200	59,269,900	20,959,100	13,677,100	11,864,400	17,977,700
7.	JSMR	PT Jasa Marga (Persero) Tbk	7,257,871,200	25,891,500	16,797,200	14,299,600	17,171,900	16,937,600	8,622,600	18,275,400	9,313,400	6,226,800	10,521,300
8.	PTPP	PT PP (Persero) Tbk	6,199,897,354	36,144,800	44,762,700	88,319,100	289,100,400	99,565,100	106,442,800	139,455,800	106,070,800	73,106,400	84,442,600
9.	SMGR	PT Semen Indonesia (Persero) Tbk	5,931,520,000	2,930,800	2,715,200	3,879,800	7,046,100	2,607,900	3,373,100	5,170,600	2,661,900	2,737,400	2,388,700
10.	WSKT	PT Waskita Karya (Persero) Tbk	13,573,951,000	71,815,600	147,548,800	332,899,300	107,123,400	153,823,000	89,091,100	62,779,200	57,273,900	64,805,200	49,235,900
11.	WIKA	PT Wijaya Karya (Persero) Tbk	8,969,951,372	50,145,800	86,996,900	48,382,300	68,516,000	58,238,500	55,844,900	36,778,100	69,814,500	49,643,500	41,329,600
12.	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	99,062,216,600	194,424,800	177,784,900	235,586,600	227,358,800	159,776,500	167,271,000	170,895,600	100,882,600	100,784,500	156,613,200

No.	Kode Perusahaan	Nama Perusahaan	Saham Beredar (lembar) Tahun 2020	Saham yang diperdagangkan (lembar) Tahun 2020									
				t+1	t+2	t+3	t+4	t+5	t+6	t+7	t+8	t+9	t+10
1.	BMRI	PT Bank Mandiri (Persero) Tbk	46,199,999,998	94,434,100	50,775,100	48,222,600	46,277,700	52,374,300	3,615,600	56,566,200	57,026,000	48,584,400	45,789,100
2.	BBNI	PT Bank Negara Indonesia (Persero) Tbk	18,462,169,893	41,380,000	41,705,800	38,848,200	39,130,600	42,861,300	68,061,300	82,270,300	53,293,800	67,685,900	-
3.	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	122,112,351,900	207,157,400	191,962,700	187,659,200	198,413,400	116,305,200	133,588,200	159,391,900	149,028,700	165,975,500	177,519,900
4.	BBTN	PT Bank Tabungan Negara (Persero) Tbk	10,484,100,000	12,371,900	23,867,900	124,608,100	137,654,200	41,472,700	50,894,300	44,090,900	43,795,300	57,311,600	70,880,300
5.	ADHI	PT Adhi Karya (Persero) Tbk	3,560,849,376	29,203,700	25,772,200	17,957,500	21,028,500	7,720,100	11,291,000	9,679,300	21,767,800	13,463,300	16,506,200
6.	SMBR	PT Semen Baturaja (Persero) Tbk	9,932,534,336	55,085,300	16,213,300	7,417,700	11,874,300	228,952,200	157,654,800	46,382,500	11,517,700	37,340,300	39,306,300
7.	JSMR	PT Jasa Marga (Persero) Tbk	7,257,871,200	6,213,100	5,504,500	17,067,900	9,793,000	5,491,500	3,533,000	7,558,900	6,597,900	5,546,900	3,088,000
8.	PTPP	PT PP (Persero) Tbk	6,199,897,354	106,557,200	60,086,500	65,009,100	78,781,500	38,521,300	23,996,900	15,706,900	24,648,000	35,862,900	61,334,600
9.	SMGR	PT Semen Indonesia (Persero) Tbk	5,931,520,000	5,578,000	2,677,600	1,498,500	5,684,700	3,231,500	5,695,800	3,362,400	3,679,100	3,776,100	3,635,900
10.	WSKT	PT Waskita Karya (Persero) Tbk	13,573,951,000	45,361,600	42,850,500	51,204,100	26,318,000	12,458,100	15,201,800	15,296,900	20,667,300	42,379,800	17,607,900
11.	WIKA	PT Wijaya Karya (Persero) Tbk	8,969,951,372	39,381,000	22,992,100	35,772,800	23,325,500	11,111,800	30,796,600	26,850,900	26,047,900	21,686,800	22,401,300
12.	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	99,062,216,600	258,068,400	148,037,400	178,357,900	102,033,100	248,572,600	169,104,200	158,166,300	125,940,800	95,422,400	77,733,900

Sumber: www.idx.co.id , <http://finance.yahoo.com> (data diolah, 2022)

Lampiran 4

4.1 TRADING VOLUME ACTIVITY (TVA) SEBELUM DAN SESUDAH PENGUMUMAN DIVIDEN TAHUN 2019

No.	Kode Perusahaan	Nama Perusahaan	TVA Tahun 2019									
			t-10	t-9	t-8	t-7	t-6	t-5	t-4	t-3	t-2	t-1
1.	BMRI	PT Bank Mandiri (Persero) Tbk	0.00090	0.00093	0.00122	0.00094	0.00065	0.00101	0.00139	0.00096	0.00071	0.00107
2.	BBNI	PT Bank Negara Indonesia (Persero) Tbk	0.00113	0.00189	0.00122	0.00056	0.00185	0.00246	0.00099	0.00166	0.00118	0.00212
3.	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	0.00099	0.00059	0.00094	0.00137	0.00118	0.00127	0.00135	0.00169	0.00097	0.00171
4.	BBTN	PT Bank Tabungan Negara (Persero) Tbk	0.00172	0.00121	0.00157	0.00086	0.00196	0.00171	0.00051	0.00109	0.00143	0.00278
5.	ADHI	PT Adhi Karya (Persero) Tbk	0.00248	0.00149	0.00140	0.00224	0.00173	0.00247	0.00148	0.00305	0.00141	0.00161
6.	SMBR	PT Semen Baturaja (Persero) Tbk	0.00005	0.00008	0.00008	0.00010	0.00004	0.00003	0.00008	0.00001	0.00007	0.00189
7.	JSMR	PT Jasa Marga (Persero) Tbk	0.00000	0.00081	0.00108	0.00098	0.00096	0.00088	0.00067	0.00054	0.00094	0.00092
8.	PTPP	PT PP (Persero) Tbk	0.00317	0.00428	0.00308	0.00000	0.00343	0.00488	0.00415	0.00261	0.00111	0.00432
9.	SMGR	PT Semen Indonesia (Persero) Tbk	0.00139	0.00197	0.00131	0.00000	0.00159	0.00000	0.00000	0.00000	0.00000	0.00000
10.	WSKT	PT Waskita Karya (Persero) Tbk	0.00213	0.00126	0.00079	0.00237	0.00223	0.00120	0.00272	0.00429	0.00214	0.00416
11.	WIKA	PT Wijaya Karya (Persero) Tbk	0.00264	0.00530	0.00355	0.00000	0.00340	0.00406	0.00235	0.00294	0.00115	0.00228
12.	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	0.00124	0.00000	0.00196	0.00000	0.00000	0.00000	0.00000	0.00000	0.00225	0.00090

No.	Kode Perusahaan	Nama Perusahaan	TVA Tahun 2019									
			t+1	t+2	t+3	t+4	t+5	t+6	t+7	t+8	t+9	t+10
1.	BMRI	PT Bank Mandiri (Persero) Tbk	0.00157	0.00323	0.00097	0.00000	0.00188	0.00000	0.00000	0.00000	0.00000	0.00000
2.	BBNI	PT Bank Negara Indonesia (Persero) Tbk	0.00111	0.00117	0.00131	0.00087	0.00603	0.00212	0.00000	0.00241	0.00000	0.00000
3.	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	0.00123	0.00101	0.00308	0.00114	0.00000	0.00214	0.00000	0.00000	0.00000	0.00000
4.	BBTN	PT Bank Tabungan Negara (Persero) Tbk	0.00404	0.00092	0.00000	0.00291	0.00000	0.00000	0.00000	0.00000	0.00000	0.00331
5.	ADHI	PT Adhi Karya (Persero) Tbk	0.00122	0.00209	0.00048	0.00223	0.00133	0.00147	0.00274	0.00129	0.00000	0.00200
6.	SMBR	PT Semen Baturaja (Persero) Tbk	0.00007	0.00004	0.00011	0.00000	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000
7.	JSMR	PT Jasa Marga (Persero) Tbk	0.00044	0.00045	0.00033	0.00073	0.00095	0.00026	0.00038	0.00058	0.00099	0.00348
8.	PTPP	PT PP (Persero) Tbk	0.00345	0.00487	0.01312	0.01106	0.00567	0.01297	0.00570	0.00535	0.00123	0.00860
9.	SMGR	PT Semen Indonesia (Persero) Tbk	0.00219	0.00223	0.00115	0.00117	0.00078	0.00063	0.00160	0.00000	0.00216	0.00284
10.	WSKT	PT Waskita Karya (Persero) Tbk	0.00368	0.00353	0.00104	0.00285	0.00144	0.00237	0.00113	0.00126	0.00000	0.00228
11.	WIKA	PT Wijaya Karya (Persero) Tbk	0.00306	0.00161	0.00402	0.00341	0.00367	0.00661	0.00368	0.00427	0.00138	0.00476
12.	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	0.00136	0.00117	0.00093	0.00061	0.00067	0.00000	0.00058	0.00156	0.00051	0.00043

Sumber: Output Ms.Excel (data diolah, 2022)

4.2 TRADING VOLUME ACTIVITY (TVA) SEBELUM DAN SESUDAH PENGUMUMAN DIVIDEN TAHUN 2020

No.	Kode Perusahaan	Nama Perusahaan	TVA Tahun 2020									
			t-10	t-9	t-8	t-7	t-6	t-5	t-4	t-3	t-2	t-1
1.	BMRI	PT Bank Mandiri (Persero) Tbk	0.00045	0.00032	0.00071	0.00132	0.00124	0.00099	0.00139	0.00115	0.00214	0.00241
2.	BBNI	PT Bank Negara Indonesia (Persero) Tbk	0.00078	0.00126	0.00140	0.00195	0.00256	0.00161	0.00092	0.00196	0.00161	0.00282
3.	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	0.00065	0.00104	0.00098	0.00073	0.00083	0.00080	0.00088	0.00084	0.00093	0.00122
4.	BBTN	PT Bank Tabungan Negara (Persero) Tbk	0.00179	0.00345	0.00268	0.00207	0.00271	0.00142	0.00607	0.00463	0.00461	0.00528
5.	ADHI	PT Adhi Karya (Persero) Tbk	0.00995	0.00735	0.00975	0.04066	0.02120	0.03415	0.03401	0.00936	0.00899	0.01034
6.	SMBR	PT Semen Baturaja (Persero) Tbk	0.00617	0.00426	0.00284	0.01720	0.01756	0.00597	0.00211	0.00138	0.00119	0.00181
7.	JSMR	PT Jasa Marga (Persero) Tbk	0.00357	0.00231	0.00197	0.00237	0.00233	0.00119	0.00252	0.00128	0.00086	0.00145
8.	PTPP	PT PP (Persero) Tbk	0.00583	0.00722	0.01425	0.04663	0.01606	0.01717	0.02249	0.01711	0.01179	0.01362
9.	SMGR	PT Semen Indonesia (Persero) Tbk	0.00049	0.00046	0.00065	0.00119	0.00044	0.00057	0.00087	0.00045	0.00046	0.00040
10.	WSKT	PT Waskita Karya (Persero) Tbk	0.00529	0.01087	0.02452	0.00789	0.01133	0.00656	0.00462	0.00422	0.00477	0.00363
11.	WIKA	PT Wijaya Karya (Persero) Tbk	0.00559	0.00970	0.00539	0.00764	0.00649	0.00623	0.00410	0.00778	0.00553	0.00461
12.	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	0.00196	0.00179	0.00238	0.00230	0.00161	0.00169	0.00173	0.00102	0.00102	0.00158

No.	Kode Perusahaan	Nama Perusahaan	TVA Tahun 2020									
			t+1	t+2	t+3	t+4	t+5	t+6	t+7	t+8	t+9	t+10
1.	BMRI	PT Bank Mandiri (Persero) Tbk	0.00204	0.00110	0.00104	0.00100	0.00113	0.00008	0.00122	0.00123	0.00105	0.00099
2.	BBNI	PT Bank Negara Indonesia (Persero) Tbk	0.00224	0.00226	0.00210	0.00212	0.00232	0.00369	0.00446	0.00289	0.00367	0.00000
3.	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	0.00170	0.00157	0.00154	0.00162	0.00095	0.00109	0.00131	0.00122	0.00136	0.00145
4.	BBTN	PT Bank Tabungan Negara (Persero) Tbk	0.00118	0.00228	0.01189	0.01313	0.00396	0.00485	0.00421	0.00418	0.00547	0.00676
5.	ADHI	PT Adhi Karya (Persero) Tbk	0.00820	0.00724	0.00504	0.00591	0.00217	0.00317	0.00272	0.00611	0.00378	0.00464
6.	SMBR	PT Semen Baturaja (Persero) Tbk	0.00555	0.00163	0.00075	0.00120	0.02305	0.01587	0.00467	0.00116	0.00376	0.00396
7.	JSMR	PT Jasa Marga (Persero) Tbk	0.00086	0.00076	0.00235	0.00135	0.00076	0.00049	0.00104	0.00091	0.00076	0.00043
8.	PTPP	PT PP (Persero) Tbk	0.01719	0.00969	0.01049	0.01271	0.00621	0.00387	0.00253	0.00398	0.00578	0.00989
9.	SMGR	PT Semen Indonesia (Persero) Tbk	0.00094	0.00045	0.00025	0.00096	0.00054	0.00096	0.00057	0.00062	0.00064	0.00061
10.	WSKT	PT Waskita Karya (Persero) Tbk	0.00334	0.00316	0.00377	0.00194	0.00092	0.00112	0.00113	0.00152	0.00312	0.00130
11.	WIKA	PT Wijaya Karya (Persero) Tbk	0.00439	0.00256	0.00399	0.00260	0.00124	0.00343	0.00299	0.00290	0.00242	0.00250
12.	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	0.00261	0.00149	0.00180	0.00103	0.00251	0.00171	0.00160	0.00127	0.00096	0.00078

Sumber: Output Ms.Excel (data diolah, 2022)

Lampiran 5

RATA-RATA *TRADING VOLUME ACTIVITY* (TVA) SEBELUM DAN SESUDAH PENGUMUMAN DIVIDEN TAHUN 2019-2020

Periode Pengamatan		Tahun	XTVA
Sebelum Pengumuman Dividen	t-10	2019	0.0015
		2020	0.0035
	t-9	2019	0.0017
		2020	0.0042
	t-8	2019	0.0015
		2020	0.0056
	t-7	2019	0.0008
		2020	0.0110
	t-6	2019	0.0016
		2020	0.0070
	t-5	2019	0.0017
		2020	0.0065
	t-4	2019	0.0013
		2020	0.0068
	t-3	2019	0.0016
		2020	0.0043
	t-2	2019	0.0011
		2020	0.0037
	t-1	2019	0.0020
		2020	0.0041

Periode Pengamatan		Tahun	XTVA
Sesudah Pengumuman Dividen	t+1	2019	0.0020
		2020	0.0042
	t+2	2019	0.0019
		2020	0.0028
	t+3	2019	0.0022
		2020	0.0038
	t+4	2019	0.0022
		2020	0.0038
	t+5	2019	0.0019
		2020	0.0038
	t+6	2019	0.0024
		2020	0.0034
	t+7	2019	0.0013
		2020	0.0024
	t+8	2019	0.0014
		2020	0.0023
	t+9	2019	0.0005
		2020	0.0027
	t+10	2019	0.0023
		2020	0.0028

Sumber: Output Ms.Excel (data diolah, 2022)

Lampiran 6

DATA SAHAM & DIVIDEN PER SAHAM PERUSAHAAN TAHUN 2019-2020

No.	Kode Perusahaan	Nama Perusahaan	Tahun	Harga Perlembar Saham	Dividen per saham	Jumlah saham beredar	Jumlah saham yang diperdagangkan
1	BMRI	PT Bank Mandiri (Persero) Tbk	2018	7,375			
			2019	7,675	241.216	46,199,999,998	39,002,900
			2020	6,325	353.342	46,199,999,998	44,470,700
2	BBNI	PT Bank Negara Indonesia (Persero) Tbk	2018	8,800			
			2019	7,850	201.290	18,462,169,893	17,802,300
			2020	6,175	206.241	18,462,169,893	38,240,000
3	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	2018	3,660			
			2019	4,400	132.174	122,112,351,900	66,440,200
			2020	4,170	168.202	122,112,351,900	90,020,900
4	BBTN	PT Bank Tabungan Negara (Persero) Tbk	2018	2,540			
			2019	2,120	53.030	10,484,100,000	9,180,200
			2020	1,725	1.976	10,484,100,000	71,665,300
5	ADHI	PT Adhi Karya (Persero) Tbk	2018	1,585			
			2019	1,175	36.180	3,560,849,376	12,315,600
			2020	1,535	18.642	3,560,849,376	87,568,700
6	SMBR	PT Semen Baturaja (Persero) Tbk	2018	1,750			
			2019	440	1.910	9,932,534,336	24,610,600
			2020	1,065	0.620	9,932,534,336	49,200,100
7	JSMR	PT Jasa Marga (Persero) Tbk	2018	4,280			
			2019	5,175	45.522	7,257,871,200	2,854,200
			2020	4,630	15.205	7,257,871,200	6,976,500
8	PTPP	PT PP (Persero) Tbk	2018	1,805			
			2019	1,585	48.452	6,199,897,354	14,478,400
			2020	1,865	33.842	6,199,897,354	212,443,000
9	SMGR	PT Semen Indonesia (Persero) Tbk	2018	11,500			
			2019	12,000	207.640	5,931,520,000	4,058,100
			2020	12,425	40.330	5,931,520,000	2,559,000
10	WSKT	PT Waskita Karya (Persero) Tbk	2018	1,680			
			2019	1,485	72.986	13,573,951,000	33,783,200
			2020	1,440	3.456	13,573,951,000	318,776,000
11	WIKA	PT Wijaya Karya (Persero) Tbk	2018	1,655			
			2019	1,990	38.605	8,969,951,372	11,204,000
			2020	1,985	50.955	8,969,951,372	80,253,200
12	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	2018	3,750			
			2019	3,970	163.823	99,062,216,600	67,738,300
			2020	3,310	154.068	99,062,216,600	150,844,500

Sumber: www.idx.co.id (data diolah, 2022)

Lampiran 7

RETURN SAHAM (CAPITAL GAIN, DIVIDEN YIELD) & TRADING VOLUME ACTIVITY**TAHUN 2019-2020**

No.	Kode Perusahaan	Nama Perusahaan	Tahun	Return Saham		TVA
				Capital Gain	Dividen	
1	BMRI	PT Bank Mandiri (Persero) Tbk	2019	0.0407	0.0327	0.0008
			2020	-0.1759	0.0460	0.0010
2	BBNI	PT Bank Negara Indonesia (Persero) Tbk	2019	-0.1080	0.0229	0.0010
			2020	-0.2134	0.0263	0.0021
3	BBRI	PT Bank Rakyat Indonesia (Persero) Tbk	2019	0.2022	0.0361	0.0005
			2020	-0.0523	0.0382	0.0007
4	BBTN	PT Bank Tabungan Negara (Persero) Tbk	2019	-0.1654	0.0209	0.0009
			2020	-0.1864	0.0009	0.0068
5	ADHI	PT Adhi Karya (Persero) Tbk	2019	-0.2587	0.0228	0.0035
			2020	0.3064	0.0159	0.0246
6	SMBR	PT Semen Baturaja (Persero) Tbk	2019	-0.7486	0.0011	0.0025
			2020	1.4205	0.0014	0.0050
7	JSMR	PT Jasa Marga (Persero) Tbk	2019	0.2091	0.0106	0.0004
			2020	-0.1053	0.0029	0.0010
8	PTPP	PT PP (Persero) Tbk	2019	-0.1219	0.0268	0.0023
			2020	0.1767	0.0214	0.0343
9	SMGR	PT Semen Indonesia (Persero) Tbk	2019	0.0435	0.0181	0.0007
			2020	0.0354	0.0034	0.0004
10	WSKT	PT Waskita Karya (Persero) Tbk	2019	-0.1161	0.0434	0.0025
			2020	-0.0303	0.0023	0.0235
11	WIKA	PT Wijaya Karya (Persero) Tbk	2019	0.2024	0.0233	0.0013
			2020	-0.0025	0.0256	0.0090
12	TLKM	PT Telekomunikasi Indonesia (Persero) Tbk	2019	0.0587	0.0437	0.0007
			2020	-0.1663	0.0388	0.0015

Sumber: Output Ms.Excel (data diolah, 2022)

Lampiran 8

HASIL OUTPUT SPSS: PENGARUH PENGUMUMAN DIVIDEN TERHADAP VOLUME PERDAGANGAN SAHAM

8.1 HASIL UJI NORMALITAS

One-Sample Kolmogorov-Smirnov Test (2019)

		TVA Before	TVA After
N		10	10
Normal Parameters ^{a,b}	Mean	.0014650	.0018070
	Std. Deviation	.00033077	.00058080
Most Extreme Differences	Absolute	.230	.236
	Positive	.178	.162
	Negative	-.230	-.236
Test Statistic		.230	.236
Asymp. Sig. (2-tailed) ^c		.142	.120

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. Lilliefors' method based on 10000 Monte Carlo samples with starting seed 2000000.

Sumber: Output SPSS V.29 (data diolah,2023)

One-Sample Kolmogorov-Smirnov Test (2020)

		TVA Before	TVA After
N		10	10
Normal Parameters ^{a,b}	Mean	.0056726	.0031967
	Std. Deviation	.00229702	.00066648
Most Extreme Differences	Absolute	.230	.199
	Positive	.230	.199
	Negative	-.177	-.197
Test Statistic		.230	.199
Asymp. Sig. (2-tailed) ^c		.143	.200 ^e

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. Lilliefors' method based on 10000 Monte Carlo samples with starting seed 624387341.

Sumber: Output SPSS V.29 (data diolah, 2023)

8.2 HASIL UJI PAIRED SAMPLE T-TEST

Paired Samples Test (2019)

Pair	TVA	Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
1	Before - TVA After	-.00034200	.00055986	.00017704	-.00074250	.00005850	-1.932	9	.085

Sumber: Output SPSS V.29 (data diolah, 2023)

Paired Samples Test (2020)

Pair	TVA	Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
1	Before - TVA After	.00247594	.00217575	.00068803	.00091951	.00403238	3.599	9	.006

Sumber: Output SPSS V.29 (data diolah, 2023)

Lampiran 9

HASIL OUTPUT SPSS: PENGARUH RETURN SAHAM TERHADAP VOLUME PERDAGANGAN SAHAM

9.1 HASIL UJI NORMALITAS

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		24
Normal Parameters ^{a,b}	Mean	.0000000
	Std. Deviation	.00862389
Most Extreme Differences	Absolute	.308
	Positive	.308
	Negative	-.179
Test Statistic		.308
Asymp. Sig. (2-tailed) ^c		<.001

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. Lilliefors' method based on 10000 Monte Carlo samples with starting seed 2000000.

Sumber: Output SPSS V.29 (data diolah, 2023)

One-Sample Kolmogorov-Smirnov Test (setelah transforasi data)

		Unstandardized Residual
N		24
Normal Parameters ^{a,b}	Mean	.0000000
	Std. Deviation	1.24972558
Most Extreme Differences	Absolute	.152
	Positive	.152
	Negative	-.086
Test Statistic		.152
Asymp. Sig. (2-tailed) ^c		.160

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. Lilliefors' method based on 10000 Monte Carlo samples with starting seed 299883525.

Sumber: Output SPSS V.29 (data diolah, 2023)

9.2 HASIL UJI AUTOKORELASI

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.284 ^a	.081	-.007	1.3078831	1.869

a. Predictors: (Constant), Dividen yield, Capital gain

b. Dependent Variable: TVA

Sumber: Output SPSS (data diolah, 2023)

9.3 HASIL UJI MULTIKOLINIERITAS

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
	B	Std. Error	Beta			Tolerance	VIF
1 (Constant)	-6.745	1.697		-3.975	<.001		
Capital gain	-.627	1.382	-.097	-.454	.655	.954	1.049
Dividen yield	-.253	.220	-.247	-1.151	.263	.954	1.049

a. Dependent Variable: TVA

Sumber: Output SPSS (data diolah, 2023)

9.4 HASIL UJI HETEROSKEDASTISITAS

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.923	1.043		.885	.386
Capital gain	-.171	.850	-.045	-.202	.842
Dividen yield	-.044	.135	-.072	-.322	.750

a. Dependent Variable: ABS_RES

Sumber: Output SPSS V.29 (data diolah 2023)

9.5 HASIL ANALISI REGRESI LINIER BERGANDA

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	-6.745	1.697		-3.975	<.001
Capital gain	-.627	1.382	-.097	-.454	.655
Dividen yield	-.253	.220	-.247	-1.151	.263

a. Dependent Variable: TVA

Sumber: Output SPSS V.29 (data diolah, 2023)

9.6 HASIL UJI T-STATISTIK

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	-6.745	1.697		-3.975	<.001
Capital gain	-.627	1.382	-.097	-.454	.655
Dividen yield	-.253	.220	-.247	-1.151	.263

a. Dependent Variable: TVA

Sumber: Output SPSS V.29 (data diolah, 2023)

9.7 HASIL UJI F-STATISTIK

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	3.147	2	1.574	.920	.414 ^b
Residual	35.922	21	1.711		
Total	39.069	23			

a. Dependent Variable: TVA

b. Predictors: (Constant), Dividen yield, Capital gain

Sumber: Output SPSS V.29 (data diolah, 2023)

9.8 HASIL UJI KOEFISIEN DETERMINASI (R²)

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.284 ^a	.081	-.007	1.3078831	1.869

a. Predictors: (Constant), Dividen yield, Capital gain

b. Dependent Variable: TVA

Sumber: Output SPSS (data diolah, 2023)

Lampiran 10

TABEL DURBIN WATSON

Tabel Durbin-Watson (DW), $\alpha = 5\%$

n	k=1		k=2		k=3		k=4		k=5	
	dL	dU	dL	dU	dL	dU	dL	dU	dL	dU
6	0.6102	1.4002								
7	0.6996	1.3564	0.4672	1.8964						
8	0.7629	1.3324	0.5591	1.7771	0.3674	2.2866				
9	0.8243	1.3199	0.6291	1.6993	0.4548	2.1282	0.2957	2.5881		
10	0.8791	1.3197	0.6972	1.6413	0.5253	2.0163	0.3760	2.4137	0.2427	2.8217
11	0.9273	1.3241	0.7580	1.6044	0.5948	1.9280	0.4441	2.2833	0.3155	2.6446
12	0.9708	1.3314	0.8122	1.5794	0.6577	1.8640	0.5120	2.1766	0.3796	2.5061
13	1.0097	1.3404	0.8612	1.5621	0.7147	1.8159	0.5745	2.0943	0.4445	2.3897
14	1.0450	1.3503	0.9054	1.5507	0.7667	1.7788	0.6321	2.0296	0.5052	2.2959
15	1.0770	1.3605	0.9455	1.5432	0.8140	1.7501	0.6852	1.9774	0.5620	2.2198
16	1.1062	1.3709	0.9820	1.5386	0.8572	1.7277	0.7340	1.9351	0.6150	2.1567
17	1.1330	1.3812	1.0154	1.5361	0.8968	1.7101	0.7790	1.9005	0.6641	2.1041
18	1.1576	1.3913	1.0461	1.5353	0.9331	1.6961	0.8204	1.8719	0.7098	2.0600
19	1.1804	1.4012	1.0743	1.5355	0.9666	1.6851	0.8588	1.8482	0.7523	2.0226
20	1.2015	1.4107	1.1004	1.5367	0.9976	1.6763	0.8943	1.8283	0.7918	1.9908
21	1.2212	1.4200	1.1246	1.5385	1.0262	1.6694	0.9272	1.8116	0.8286	1.9635
22	1.2395	1.4289	1.1471	1.5408	1.0529	1.6640	0.9578	1.7974	0.8629	1.9400
23	1.2567	1.4375	1.1682	1.5435	1.0778	1.6597	0.9864	1.7855	0.8949	1.9196
24	1.2728	1.4458	1.1878	1.5464	1.1010	1.6565	1.0131	1.7753	0.9249	1.9018
25	1.2879	1.4537	1.2063	1.5495	1.1228	1.6540	1.0381	1.7666	0.9530	1.8863
26	1.3022	1.4614	1.2236	1.5528	1.1432	1.6523	1.0616	1.7591	0.9794	1.8727
27	1.3157	1.4688	1.2399	1.5562	1.1624	1.6510	1.0836	1.7527	1.0042	1.8608
28	1.3284	1.4759	1.2553	1.5596	1.1805	1.6503	1.1044	1.7473	1.0276	1.8502
29	1.3405	1.4828	1.2699	1.5631	1.1976	1.6499	1.1241	1.7426	1.0497	1.8409
30	1.3520	1.4894	1.2837	1.5666	1.2138	1.6498	1.1426	1.7386	1.0706	1.8326
31	1.3630	1.4957	1.2969	1.5701	1.2292	1.6500	1.1602	1.7352	1.0904	1.8252
32	1.3734	1.5019	1.3093	1.5736	1.2437	1.6505	1.1769	1.7323	1.1092	1.8187
33	1.3834	1.5078	1.3212	1.5770	1.2576	1.6511	1.1927	1.7298	1.1270	1.8128
34	1.3929	1.5136	1.3325	1.5805	1.2707	1.6519	1.2078	1.7277	1.1439	1.8076
35	1.4019	1.5191	1.3433	1.5838	1.2833	1.6528	1.2221	1.7259	1.1601	1.8029

Sumber: <https://keb.umm.ac.id/files/file/tabel-dw.pdf> (data diakses 2023)

Lampiran 11

TABEL DISTRIBUSI t

Titik Persentase Distribusi t (df = 1 – 40)

df	Pr 0.25 0.50	0.10 0.20	0.05 0.10	0.025 0.050	0.01 0.02	0.005 0.010	0.001 0.002
1	1.00000	3.07768	6.31375	12.70620	31.82052	63.65674	318.30884
2	0.81650	1.88562	2.91999	4.30265	6.96456	9.92484	22.32712
3	0.76489	1.63774	2.35336	3.18245	4.54070	5.84091	10.21453
4	0.74070	1.53321	2.13185	2.77645	3.74695	4.60409	7.17318
5	0.72669	1.47588	2.01505	2.57058	3.36493	4.03214	5.89343
6	0.71756	1.43976	1.94318	2.44691	3.14267	3.70743	5.20763
7	0.71114	1.41492	1.89458	2.36462	2.99795	3.49948	4.78529
8	0.70639	1.39682	1.85955	2.30600	2.89646	3.35539	4.50079
9	0.70272	1.38303	1.83311	2.26216	2.82144	3.24984	4.29681
10	0.69981	1.37218	1.81246	2.22814	2.76377	3.16927	4.14370
11	0.69745	1.36343	1.79588	2.20099	2.71808	3.10581	4.02470
12	0.69548	1.35622	1.78229	2.17881	2.68100	3.05454	3.92963
13	0.69383	1.35017	1.77093	2.16037	2.65031	3.01228	3.85198
14	0.69242	1.34503	1.76131	2.14479	2.62449	2.97684	3.78739
15	0.69120	1.34061	1.75305	2.13145	2.60248	2.94671	3.73283
16	0.69013	1.33676	1.74588	2.11991	2.58349	2.92078	3.68615
17	0.68920	1.33338	1.73961	2.10982	2.56693	2.89823	3.64577
18	0.68836	1.33039	1.73406	2.10092	2.55238	2.87844	3.61048
19	0.68762	1.32773	1.72913	2.09302	2.53948	2.86093	3.57940
20	0.68695	1.32534	1.72472	2.08596	2.52798	2.84534	3.55181
21	0.68635	1.32319	1.72074	2.07961	2.51765	2.83136	3.52715
22	0.68581	1.32124	1.71714	2.07387	2.50832	2.81876	3.50499
23	0.68531	1.31946	1.71387	2.06866	2.49987	2.80734	3.48496
24	0.68485	1.31784	1.71088	2.06390	2.49216	2.79694	3.46678
25	0.68443	1.31635	1.70814	2.05954	2.48511	2.78744	3.45019
26	0.68404	1.31497	1.70562	2.05553	2.47863	2.77871	3.43500
27	0.68368	1.31370	1.70329	2.05183	2.47266	2.77068	3.42103
28	0.68335	1.31253	1.70113	2.04841	2.46714	2.76326	3.40816
29	0.68304	1.31143	1.69913	2.04523	2.46202	2.75639	3.39624
30	0.68276	1.31042	1.69726	2.04227	2.45726	2.75000	3.38518

Sumber: <http://ledhyane.lecture.ub.ac.id/files/2013/04/tabel-t.pdf> (data diakses 2023)

Lampiran 12

TABEL DISTRIBUSI F

$\alpha = 0,05$	$df_1=(k-1)$							
$df_2=(n-k-1)$	1	2	3	4	5	6	7	8
1	161.44 ₈	199.500	215.70 ₇	224.583	230.162	233.98 ₆	236.768	238.883
2	18.513	19.000	19.164	19.247	19.296	19.330	19.353	19.371
3	10.128	9.552	9.277	9.117	9.013	8.941	8.887	8.845
4	7.709	6.944	6.591	6.388	6.256	6.163	6.094	6.041
5	6.608	5.786	5.409	5.192	5.050	4.950	4.876	4.818
6	5.987	5.143	4.757	4.534	4.387	4.284	4.207	4.147
7	5.591	4.737	4.347	4.120	3.972	3.866	3.787	3.726
8	5.318	4.459	4.066	3.838	3.687	3.581	3.500	3.438
9	5.117	4.256	3.863	3.633	3.482	3.374	3.293	3.230
10	4.965	4.103	3.708	3.478	3.326	3.217	3.135	3.072
11	4.844	3.982	3.587	3.357	3.204	3.095	3.012	2.948
12	4.747	3.885	3.490	3.259	3.106	2.996	2.913	2.849
13	4.667	3.806	3.411	3.179	3.025	2.915	2.832	2.767
14	4.600	3.739	3.344	3.112	2.958	2.848	2.764	2.699
15	4.543	3.682	3.287	3.056	2.901	2.790	2.707	2.641
16	4.494	3.634	3.239	3.007	2.852	2.741	2.657	2.591
17	4.451	3.592	3.197	2.965	2.810	2.699	2.614	2.548
18	4.414	3.555	3.160	2.928	2.773	2.661	2.577	2.510
19	4.381	3.522	3.127	2.895	2.740	2.628	2.544	2.477
20	4.351	3.493	3.098	2.866	2.711	2.599	2.514	2.447
21	4.325	3.467	3.072	2.840	2.685	2.573	2.488	2.420
22	4.301	3.443	3.049	2.817	2.661	2.549	2.464	2.397
23	4.279	3.422	3.028	2.796	2.640	2.528	2.442	2.375
24	4.260	3.403	3.009	2.776	2.621	2.508	2.423	2.355
25	4.242	3.385	2.991	2.759	2.603	2.490	2.405	2.337
26	4.225	3.369	2.975	2.743	2.587	2.474	2.388	2.321
27	4.210	3.354	2.960	2.728	2.572	2.459	2.373	2.305
28	4.196	3.340	2.947	2.714	2.558	2.445	2.359	2.291
29	4.183	3.328	2.934	2.701	2.545	2.432	2.346	2.278
30	4.171	3.316	2.922	2.690	2.534	2.421	2.334	2.266
31	4.160	3.305	2.911	2.679	2.523	2.409	2.323	2.255
32	4.149	3.295	2.901	2.668	2.512	2.399	2.313	2.244
33	4.139	3.285	2.892	2.659	2.503	2.389	2.303	2.235
34	4.130	3.276	2.883	2.650	2.494	2.380	2.294	2.225
35	4.121	3.267	2.874	2.641	2.485	2.372	2.285	2.217

Sumber: <http://ledhyane.lecture.ub.ac.id/files/2013/07/tabel-f-0-05.pdf> (data diakses 2023)