

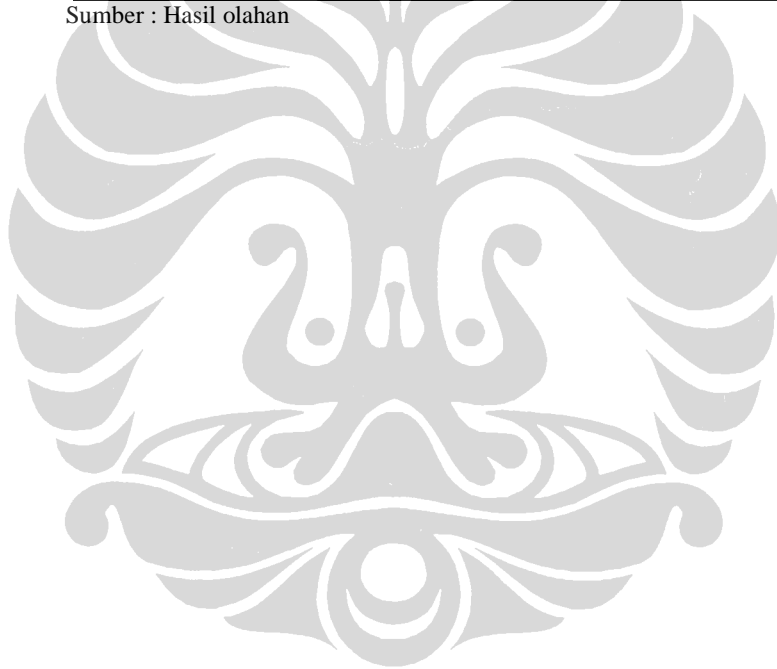
Lampiran 1

permintaan penumpang kereta api cepat terhadap moda transportasi kereta api konvensional dari tahun 2017 sampai tahun 2056

Tahun	ΣPr	Po	$(1 + i)^n$	Pka	Pt	Pnp/hari
2008	0.077	5,798,685	1.00	5,798,685	-	
2009	0.077	5,798,685	1.01	5,850,467	-	
2010	0.077	5,798,685	1.02	5,902,712	-	
2011	0.077	5,798,685	1.03	5,955,423	-	
2012	0.077	5,798,685	1.04	6,008,605	-	
2013	0.077	5,798,685	1.05	6,062,262	-	
2014	0.077	5,798,685	1.05	6,116,398	-	
2015	0.077	5,798,685	1.06	6,171,017	-	
2016	0.077	5,798,685	1.07	6,226,125	-	
2017	0.077	5,798,685	1.08	6,281,724	482,970	1,323
2018	0.077	5,798,685	1.09	6,337,820	487,283	1,335
2019	0.077	5,798,685	1.10	6,394,416	491,634	1,347
2020	0.077	5,798,685	1.11	6,451,518	496,024	1,359
2021	0.077	5,798,685	1.12	6,509,131	500,454	1,371
2022	0.077	5,798,685	1.13	6,567,257	504,923	1,383
2023	0.077	5,798,685	1.14	6,625,903	509,432	1,396
2024	0.077	5,798,685	1.15	6,685,072	513,981	1,408
2025	0.077	5,798,685	1.16	6,744,770	518,571	1,421
2026	0.077	5,798,685	1.17	6,805,000	523,202	1,433
2027	0.077	5,798,685	1.18	6,865,769	527,874	1,446
2028	0.077	5,798,685	1.19	6,927,080	532,588	1,459
2029	0.077	5,798,685	1.21	6,988,939	537,344	1,472
2030	0.077	5,798,685	1.22	7,051,351	542,142	1,485
2031	0.077	5,798,685	1.23	7,114,319	546,984	1,499
2032	0.077	5,798,685	1.24	7,177,850	551,868	1,512
2033	0.077	5,798,685	1.25	7,241,948	556,796	1,525
2034	0.077	5,798,685	1.26	7,306,619	561,769	1,539
2035	0.077	5,798,685	1.27	7,371,867	566,785	1,553
2036	0.077	5,798,685	1.28	7,437,698	571,847	1,567
2037	0.077	5,798,685	1.29	7,504,116	576,953	1,581
2038	0.077	5,798,685	1.31	7,571,128	582,105	1,595
2039	0.077	5,798,685	1.32	7,638,738	587,304	1,609
2040	0.077	5,798,685	1.33	7,706,952	592,548	1,623
2041	0.077	5,798,685	1.34	7,775,775	597,840	1,638
2042	0.077	5,798,685	1.35	7,845,213	603,178	1,653
2043	0.077	5,798,685	1.37	7,915,271	608,565	1,667

2044	0.077	5,798,685	1.38	7,985,954	613,999	1,682
2045	0.077	5,798,685	1.39	8,057,269	619,482	1,697
2046	0.077	5,798,685	1.40	8,129,220	625,014	1,712
2047	0.077	5,798,685	1.41	8,201,814	630,596	1,728
2048	0.077	5,798,685	1.43	8,275,056	636,227	1,743
2049	0.077	5,798,685	1.44	8,348,952	641,908	1,759
2050	0.077	5,798,685	1.45	8,423,509	647,641	1,774
2051	0.077	5,798,685	1.47	8,498,730	653,424	1,790
2052	0.077	5,798,685	1.48	8,574,624	659,259	1,806
2053	0.077	5,798,685	1.49	8,651,195	665,146	1,822
2054	0.077	5,798,685	1.51	8,728,451	671,086	1,839
2055	0.077	5,798,685	1.52	8,806,396	677,079	1,855
2056	0.077	5,798,685	1.53	8,885,037	683,125	1,872

Sumber : Hasil olahan



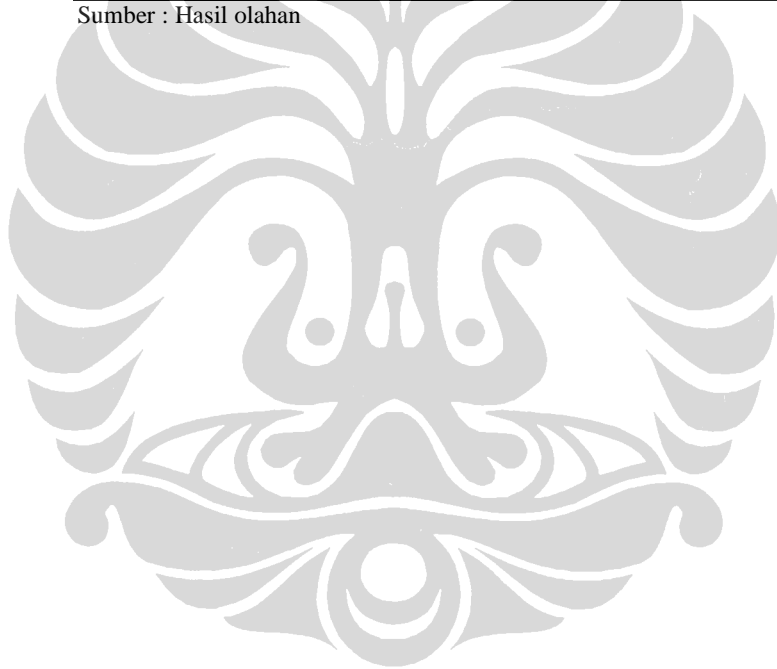
Lampiran 2

Permintaan penumpang kereta api cepat terhadap moda transportasi jalan raya dari tahun 2017 sampai tahun 2056

Tahun	ΣPr	P_o	$(1 + i)^n$	P_{jr}	P_t	P_{np}/hari
2008	0.136	1,221,180	1.00	1,221,180	-	-
2009	0.136	1,221,180	1.01	1,232,085	-	-
2010	0.136	1,221,180	1.02	1,243,088	-	-
2011	0.136	1,221,180	1.03	1,254,189	-	-
2012	0.136	1,221,180	1.04	1,265,389	-	-
2013	0.136	1,221,180	1.05	1,276,689	-	-
2014	0.136	1,221,180	1.05	1,288,089	-	-
2015	0.136	1,221,180	1.06	1,299,592	-	-
2016	0.136	1,221,180	1.07	1,311,197	-	-
2017	0.136	1,221,180	1.08	1,322,906	180,116	493
2018	0.136	1,221,180	1.09	1,334,720	181,725	498
2019	0.136	1,221,180	1.10	1,346,639	183,348	502
2020	0.136	1,221,180	1.11	1,358,664	184,985	507
2021	0.136	1,221,180	1.12	1,370,797	186,637	511
2022	0.136	1,221,180	1.13	1,383,039	188,303	516
2023	0.136	1,221,180	1.14	1,395,389	189,985	521
2024	0.136	1,221,180	1.15	1,407,850	191,682	525
2025	0.136	1,221,180	1.16	1,420,422	193,393	530
2026	0.136	1,221,180	1.17	1,433,106	195,120	535
2027	0.136	1,221,180	1.18	1,445,904	196,863	539
2028	0.136	1,221,180	1.19	1,458,816	198,621	544
2029	0.136	1,221,180	1.21	1,471,843	200,394	549
2030	0.136	1,221,180	1.22	1,484,987	202,184	554
2031	0.136	1,221,180	1.23	1,498,248	203,989	559
2032	0.136	1,221,180	1.24	1,511,627	205,811	564
2033	0.136	1,221,180	1.25	1,525,126	207,649	569
2034	0.136	1,221,180	1.26	1,538,745	209,503	574
2035	0.136	1,221,180	1.27	1,552,486	211,374	579
2036	0.136	1,221,180	1.28	1,566,350	213,262	584
2037	0.136	1,221,180	1.29	1,580,337	215,166	589
2038	0.136	1,221,180	1.31	1,594,450	217,088	595
2039	0.136	1,221,180	1.32	1,608,688	219,026	600
2040	0.136	1,221,180	1.33	1,623,054	220,982	605
2041	0.136	1,221,180	1.34	1,637,548	222,955	611
2042	0.136	1,221,180	1.35	1,652,171	224,946	616
2043	0.136	1,221,180	1.37	1,666,925	226,955	622

2044	0.136	1,221,180	1.38	1,681,811	228,982	627
2045	0.136	1,221,180	1.39	1,696,829	231,027	633
2046	0.136	1,221,180	1.40	1,711,982	233,090	639
2047	0.136	1,221,180	1.41	1,727,270	235,171	644
2048	0.136	1,221,180	1.43	1,742,694	237,271	650
2049	0.136	1,221,180	1.44	1,758,257	239,390	656
2050	0.136	1,221,180	1.45	1,773,958	241,528	662
2051	0.136	1,221,180	1.47	1,789,799	243,685	668
2052	0.136	1,221,180	1.48	1,805,782	245,861	674
2053	0.136	1,221,180	1.49	1,821,908	248,056	680
2054	0.136	1,221,180	1.51	1,838,177	250,272	686
2055	0.136	1,221,180	1.52	1,854,592	252,506	692
2056	0.136	1,221,180	1.53	1,871,154	254,761	698

Sumber : Hasil olahan



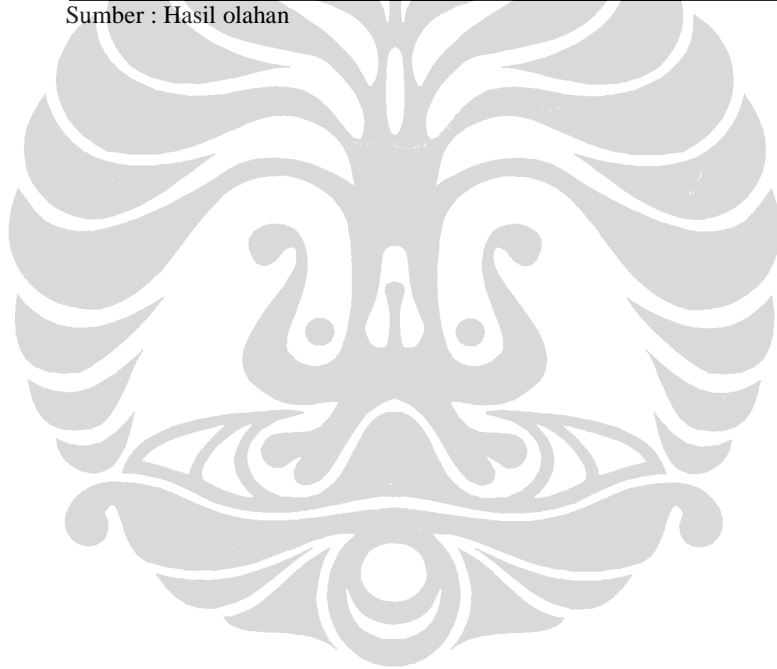
Lampiran 3

Permintaan penumpang kereta api cepat terhadap moda transportasi udara dari tahun 2017 sampai tahun 2056

Tahun	ΣPr	Po	$(1 + i)n$	Pudara	Pt	Pnp/hari
2008	0.281	4,510,951	1.00	4,510,951	-	-
2009	0.281	4,510,951	1.01	4,551,234	-	-
2010	0.281	4,510,951	1.02	4,591,877	-	-
2011	0.281	4,510,951	1.03	4,632,882	-	-
2012	0.281	4,510,951	1.04	4,674,254	-	-
2013	0.281	4,510,951	1.05	4,715,995	-	-
2014	0.281	4,510,951	1.05	4,758,109	-	-
2015	0.281	4,510,951	1.06	4,800,599	-	-
2016	0.281	4,510,951	1.07	4,843,468	-	-
2017	0.281	4,510,951	1.08	4,886,720	1,371,346	3,757
2018	0.281	4,510,951	1.09	4,930,359	1,383,592	3,791
2019	0.281	4,510,951	1.10	4,974,387	1,395,948	3,825
2020	0.281	4,510,951	1.11	5,018,808	1,408,413	3,859
2021	0.281	4,510,951	1.12	5,063,626	1,420,991	3,893
2022	0.281	4,510,951	1.13	5,108,844	1,433,680	3,928
2023	0.281	4,510,951	1.14	5,154,466	1,446,483	3,963
2024	0.281	4,510,951	1.15	5,200,496	1,459,400	3,998
2025	0.281	4,510,951	1.16	5,246,936	1,472,432	4,034
2026	0.281	4,510,951	1.17	5,293,791	1,485,581	4,070
2027	0.281	4,510,951	1.18	5,341,065	1,498,847	4,106
2028	0.281	4,510,951	1.19	5,388,760	1,512,232	4,143
2029	0.281	4,510,951	1.21	5,436,882	1,525,736	4,180
2030	0.281	4,510,951	1.22	5,485,433	1,539,361	4,217
2031	0.281	4,510,951	1.23	5,534,418	1,553,108	4,255
2032	0.281	4,510,951	1.24	5,583,841	1,566,977	4,293
2033	0.281	4,510,951	1.25	5,633,704	1,580,970	4,331
2034	0.281	4,510,951	1.26	5,684,013	1,595,088	4,370
2035	0.281	4,510,951	1.27	5,734,772	1,609,332	4,409
2036	0.281	4,510,951	1.28	5,785,983	1,623,704	4,449
2037	0.281	4,510,951	1.29	5,837,652	1,638,203	4,488
2038	0.281	4,510,951	1.31	5,889,782	1,652,832	4,528
2039	0.281	4,510,951	1.32	5,942,378	1,667,592	4,569
2040	0.281	4,510,951	1.33	5,995,443	1,682,484	4,610
2041	0.281	4,510,951	1.34	6,048,983	1,697,508	4,651
2042	0.281	4,510,951	1.35	6,103,000	1,712,667	4,692
2043	0.281	4,510,951	1.37	6,157,500	1,727,961	4,734

2044	0.281	4,510,951	1.38	6,212,486	1,743,392	4,776
2045	0.281	4,510,951	1.39	6,267,964	1,758,960	4,819
2046	0.281	4,510,951	1.40	6,323,937	1,774,668	4,862
2047	0.281	4,510,951	1.41	6,380,409	1,790,516	4,906
2048	0.281	4,510,951	1.43	6,437,387	1,806,505	4,949
2049	0.281	4,510,951	1.44	6,494,872	1,822,637	4,994
2050	0.281	4,510,951	1.45	6,552,872	1,838,913	5,038
2051	0.281	4,510,951	1.47	6,611,389	1,855,335	5,083
2052	0.281	4,510,951	1.48	6,670,428	1,871,903	5,129
2053	0.281	4,510,951	1.49	6,729,995	1,888,619	5,174
2054	0.281	4,510,951	1.51	6,790,094	1,905,484	5,221
2055	0.281	4,510,951	1.52	6,850,730	1,922,500	5,267
2056	0.281	4,510,951	1.53	6,911,907	1,939,668	5,314

Sumber : Hasil olahan



Lampiran 4

Tingkat Pertumbuhan Penduduk dari tahun 2000 sampai tahun 2025
(Rp. ribuan)

Propinsi /Tahun	DKI Jakarta	Jawa Barat	Banten	Jawa Tengah	DI. Yogyakarta	Jawa Timur	Pulau Jawa	rata-rata pertumbuhan (%)
2000	8,361.00	35,724.00	8,098.10	31,223.00	3,121.10	34,766.00	121,293.20	
2001	8,429.50	36,382.40	8,332.50	31,361.80	3,152.70	34,926.60	122,585.50	1.065
2002	8,497.00	37,043.50	8,570.10	31,496.50	3,183.40	35,084.30	123,874.80	1.052
2003	8,566.30	37,710.90	8,810.70	31,629.80	3,215.40	35,240.80	125,173.90	1.049
2004	8,636.10	38,383.20	9,055.00	31,759.80	3,248.50	35,396.20	126,478.80	1.042
2005	8,699.60	39,066.70	9,309.00	31,887.20	3,280.20	35,550.40	127,793.10	1.039
2006	8,755.70	39,750.70	9,570.40	32,002.50	3,311.20	35,695.00	129,085.50	1.011
2007	8,814.00	40,445.50	9,836.10	32,119.40	3,343.30	35,843.20	130,401.50	1.019
2008	8,872.90	41,145.70	10,106.60	32,234.60	3,375.60	35,989.90	131,725.30	1.015
2009	8,929.20	41,843.40	10,377.70	32,341.40	3,407.60	36,128.00	133,027.30	0.988
2010	8,981.20	42,555.30	10,661.10	32,451.60	3,439.00	36,269.50	134,357.70	1.000
2011	9,022.10	43,249.30	10,947.90	32,540.80	3,467.20	36,387.30	135,614.60	0.935
2012	9,063.00	43,956.20	11,241.40	32,635.00	3,496.10	36,510.50	136,902.20	0.949
2013	9,101.20	44,663.10	11,536.70	32,723.60	3,525.30	36,628.50	138,178.40	0.932
2014	9,136.80	45,365.40	11,833.40	32,802.60	3,553.10	36,734.50	139,425.80	0.903
2015	9,168.50	46,073.80	12,140.00	32,882.70	3,580.30	36,840.40	140,685.70	0.904
2016	9,193.50	46,773.30	12,453.30	32,951.20	3,604.90	36,932.30	141,908.50	0.869
2017	9,216.40	47,470.50	12,769.20	33,013.20	3,629.50	37,015.00	143,113.80	0.849
2018	9,236.50	48,161.90	13,084.50	33,066.60	3,652.20	37,087.20	144,288.90	0.821
2019	9,252.20	48,845.30	13,399.60	33,109.80	3,674.80	37,144.20	145,425.90	0.788
2020	9,262.60	49,512.10	13,717.60	33,138.90	3,694.70	37,183.00	146,508.90	0.745
2021	9,269.30	50,181.40	14,044.40	33,165.10	3,713.50	37,216.90	147,590.60	0.738
2022	9,273.10	50,843.30	14,371.30	33,182.10	3,731.20	37,237.80	148,638.80	0.710
2023	9,272.90	51,491.30	14,695.90	33,186.10	3,747.70	37,242.10	149,636.00	0.671
2024	9,268.60	52,122.80	15,018.00	33,176.40	3,762.80	37,227.20	150,575.80	0.628
2025	9,259.90	52,740.80	15,343.50	33,152.80	3,776.50	37,194.50	151,468.00	0.593
Rata-rata pertumbuhan Penduduk (tahun 2000 - 2025)								0.893

Sumber : Hasil Olahan

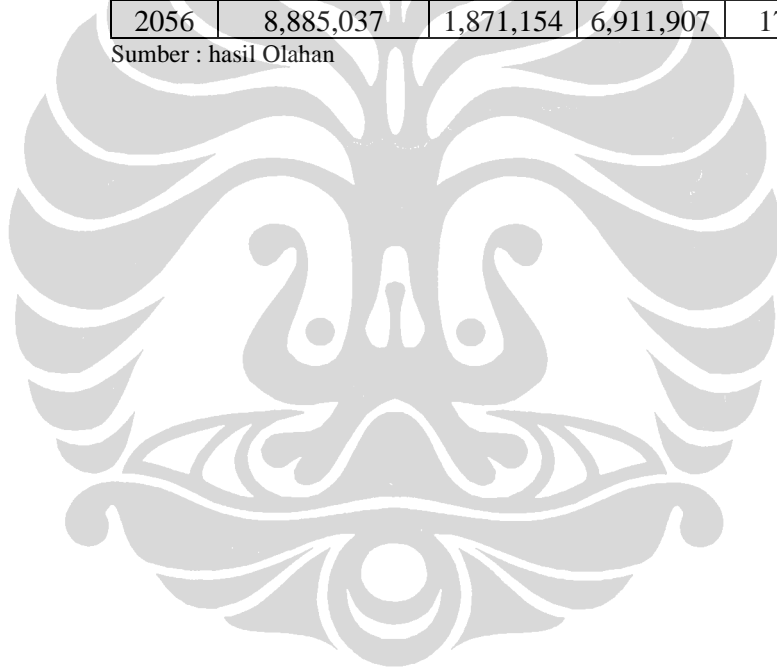
Lampiran 5

Proyeksi volume Permintaan Penumpang pada moda transportasi
tanpa moda transportasi kereta api cepat pada koridor Jakarta – Surabaya

Tahun	KA Konvensional	jalan raya	Udara	Total Permintaan
2008	5,798,685	1,221,180	4,510,951	11,530,817
2009	5,850,467	1,232,085	4,551,234	11,633,787
2010	5,902,712	1,243,088	4,591,877	11,737,677
2011	5,955,423	1,254,189	4,632,882	11,842,494
2012	6,008,605	1,265,389	4,674,254	11,948,248
2013	6,062,262	1,276,689	4,715,995	12,054,945
2014	6,116,398	1,288,089	4,758,109	12,162,596
2015	6,171,017	1,299,592	4,800,599	12,271,208
2016	6,226,125	1,311,197	4,843,468	12,380,790
2017	6,281,724	1,322,906	4,886,720	12,491,350
2018	6,337,820	1,334,720	4,930,359	12,602,898
2019	6,394,416	1,346,639	4,974,387	12,715,442
2020	6,451,518	1,358,664	5,018,808	12,828,991
2021	6,509,131	1,370,797	5,063,626	12,943,554
2022	6,567,257	1,383,039	5,108,844	13,059,140
2023	6,625,903	1,395,389	5,154,466	13,175,758
2024	6,685,072	1,407,850	5,200,496	13,293,417
2025	6,744,770	1,420,422	5,246,936	13,412,128
2026	6,805,000	1,433,106	5,293,791	13,531,898
2027	6,865,769	1,445,904	5,341,065	13,652,738
2028	6,927,080	1,458,816	5,388,760	13,774,657
2029	6,988,939	1,471,843	5,436,882	13,897,664
2030	7,051,351	1,484,987	5,485,433	14,021,771
2031	7,114,319	1,498,248	5,534,418	14,146,985
2032	7,177,850	1,511,627	5,583,841	14,273,318
2033	7,241,948	1,525,126	5,633,704	14,400,778
2034	7,306,619	1,538,745	5,684,013	14,529,377
2035	7,371,867	1,552,486	5,734,772	14,659,125
2036	7,437,698	1,566,350	5,785,983	14,790,031
2037	7,504,116	1,580,337	5,837,652	14,922,106
2038	7,571,128	1,594,450	5,889,782	15,055,360
2039	7,638,738	1,608,688	5,942,378	15,189,804
2040	7,706,952	1,623,054	5,995,443	15,325,449
2041	7,775,775	1,637,548	6,048,983	15,462,306
2042	7,845,213	1,652,171	6,103,000	15,600,384

2043	7,915,271	1,666,925	6,157,500	15,739,695
2044	7,985,954	1,681,811	6,212,486	15,880,251
2045	8,057,269	1,696,829	6,267,964	16,022,062
2046	8,129,220	1,711,982	6,323,937	16,165,139
2047	8,201,814	1,727,270	6,380,409	16,309,493
2048	8,275,056	1,742,694	6,437,387	16,455,137
2049	8,348,952	1,758,257	6,494,872	16,602,081
2050	8,423,509	1,773,958	6,552,872	16,750,338
2051	8,498,730	1,789,799	6,611,389	16,899,918
2052	8,574,624	1,805,782	6,670,428	17,050,835
2053	8,651,195	1,821,908	6,729,995	17,203,099
2054	8,728,451	1,838,177	6,790,094	17,356,722
2055	8,806,396	1,854,592	6,850,730	17,511,718
2056	8,885,037	1,871,154	6,911,907	17,668,098

Sumber : hasil Olahan



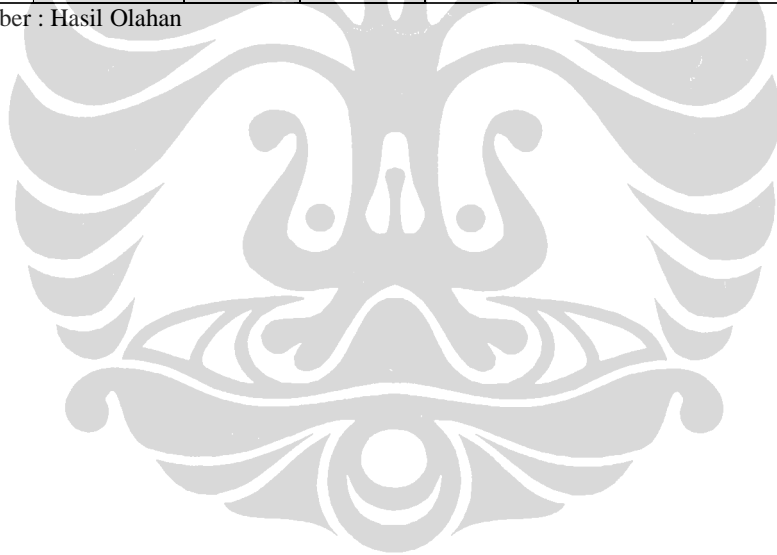
Lampiran 6

Proyeksi volume Permintaan Penumpang pada moda transportasi
dengan moda transportasi kereta api cepat pada koridor Jakarta – Surabaya

Tahun	KA Konvensional	jalan raya	Udara	KA cepat			Total Penumpang KA cepat	Total Demand
				ka konvensional	jalan raya	udara		
2008	5,798,685	1,221,180	4,510,951	-	-	-	-	11,530,817
2009	5,850,467	1,232,085	4,551,234	-	-	-	-	11,633,787
2010	5,902,712	1,243,088	4,591,877	-	-	-	-	11,737,677
2011	5,955,423	1,254,189	4,632,882	-	-	-	-	11,842,494
2012	6,008,605	1,265,389	4,674,254	-	-	-	-	11,948,248
2013	6,062,262	1,276,689	4,715,995	-	-	-	-	12,054,945
2014	6,116,398	1,288,089	4,758,109	-	-	-	-	12,162,596
2015	6,171,017	1,299,592	4,800,599	-	-	-	-	12,271,208
2016	6,226,125	1,311,197	4,843,468	-	-	-	-	12,380,790
2017	5,798,754	1,142,790	3,515,374	482,970	180,116	1,371,346	2,034,432	12,491,350
2018	5,850,537	1,152,995	3,546,767	487,283	181,725	1,383,592	2,052,600	12,602,898
2019	5,902,782	1,163,291	3,578,439	491,634	183,348	1,395,948	2,070,929	12,715,442
2020	5,955,494	1,173,680	3,610,395	496,024	184,985	1,408,413	2,089,423	12,828,991
2021	6,008,677	1,184,161	3,642,635	500,454	186,637	1,420,991	2,108,081	12,943,554
2022	6,062,334	1,194,735	3,675,164	504,923	188,303	1,433,680	2,126,906	13,059,140
2023	6,116,471	1,205,404	3,707,983	509,432	189,985	1,446,483	2,145,900	13,175,758
2024	6,171,091	1,216,168	3,741,096	513,981	191,682	1,459,400	2,165,063	13,293,417
2025	6,226,199	1,227,029	3,774,504	518,571	193,393	1,472,432	2,184,397	13,412,128
2026	6,281,799	1,237,986	3,808,210	523,202	195,120	1,485,581	2,203,903	13,531,898
2027	6,337,895	1,249,041	3,842,217	527,874	196,863	1,498,847	2,223,584	13,652,738
2028	6,394,493	1,260,195	3,876,528	532,588	198,621	1,512,232	2,243,441	13,774,657
2029	6,451,595	1,271,449	3,911,146	537,344	200,394	1,525,736	2,263,475	13,897,664
2030	6,509,208	1,282,803	3,946,072	542,142	202,184	1,539,361	2,283,687	14,021,771
2031	6,567,335	1,294,258	3,981,311	546,984	203,989	1,553,108	2,304,081	14,146,985
2032	6,625,982	1,305,816	4,016,864	551,868	205,811	1,566,977	2,324,656	14,273,318
2033	6,685,152	1,317,477	4,052,734	556,796	207,649	1,580,970	2,345,415	14,400,778
2034	6,744,850	1,329,242	4,088,925	561,769	209,503	1,595,088	2,366,360	14,529,377
2035	6,805,082	1,341,112	4,125,439	566,785	211,374	1,609,332	2,387,492	14,659,125
2036	6,865,851	1,353,088	4,162,280	571,847	213,262	1,623,704	2,408,812	14,790,031
2037	6,927,163	1,365,171	4,199,449	576,953	215,166	1,638,203	2,430,323	14,922,106
2038	6,989,023	1,377,362	4,236,950	582,105	217,088	1,652,832	2,452,025	15,055,360
2039	7,051,435	1,389,662	4,274,786	587,304	219,026	1,667,592	2,473,922	15,189,804
2040	7,114,404	1,402,072	4,312,960	592,548	220,982	1,682,484	2,496,014	15,325,449

2041	7,177,936	1,414,592	4,351,474	597,840	222,955	1,697,508	2,518,303	15,462,306
2042	7,242,034	1,427,225	4,390,333	603,178	224,946	1,712,667	2,540,792	15,600,384
2043	7,306,706	1,439,970	4,429,539	608,565	226,955	1,727,961	2,563,481	15,739,695
2044	7,371,955	1,452,829	4,469,094	613,999	228,982	1,743,392	2,586,373	15,880,251
2045	7,437,786	1,465,802	4,509,003	619,482	231,027	1,758,960	2,609,469	16,022,062
2046	7,504,206	1,478,892	4,549,269	625,014	233,090	1,774,668	2,632,772	16,165,139
2047	7,571,218	1,492,099	4,589,894	630,596	235,171	1,790,516	2,656,283	16,309,493
2048	7,638,829	1,505,423	4,630,882	636,227	237,271	1,806,505	2,680,003	16,455,137
2049	7,707,044	1,518,866	4,672,235	641,908	239,390	1,822,637	2,703,936	16,602,081
2050	7,775,868	1,532,430	4,713,958	647,641	241,528	1,838,913	2,728,082	16,750,338
2051	7,845,306	1,546,115	4,756,054	653,424	243,685	1,855,335	2,752,443	16,899,918
2052	7,915,365	1,559,921	4,798,526	659,259	245,861	1,871,903	2,777,023	17,050,835
2053	7,986,049	1,573,851	4,841,376	665,146	248,056	1,888,619	2,801,822	17,203,099
2054	8,057,365	1,587,906	4,884,610	671,086	250,272	1,905,484	2,826,842	17,356,722
2055	8,129,317	1,602,086	4,928,229	677,079	252,506	1,922,500	2,852,086	17,511,718
2056	8,201,912	1,616,393	4,972,239	683,125	254,761	1,939,668	2,877,555	17,668,098

Sumber : Hasil Olahan

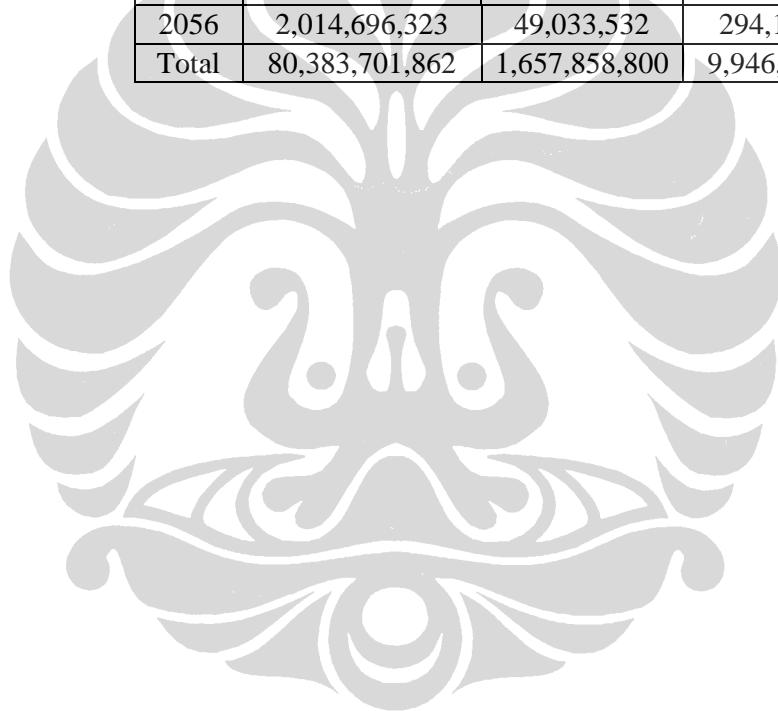


Lampiran 7

Manfaat Pembangunan KA Cepat terhadap Pengurangan Polusi

Tahun	Polusi dari moda eksisting	Polusi KA Cepat	Pengurangan Polusi
2008	1,314,861,103	-	-
2009	1,326,602,813	-	-
2010	1,338,449,376	-	-
2011	1,350,401,729	-	-
2012	1,362,460,816	-	-
2013	1,374,627,591	-	-
2014	1,386,903,016	-	-
2015	1,399,288,060	-	-
2016	1,411,783,702	-	-
2017	1,424,390,931	34,666,723	207,982,695
2018	1,437,110,742	34,976,297	209,839,981
2019	1,449,944,140	35,288,635	211,713,852
2020	1,462,892,142	35,603,762	213,604,456
2021	1,475,955,768	35,921,704	215,511,944
2022	1,489,136,054	36,242,485	217,436,466
2023	1,502,434,038	36,566,130	219,378,173
2024	1,515,850,774	36,892,666	221,337,221
2025	1,529,387,322	37,222,117	223,313,762
2026	1,543,044,751	37,554,511	225,307,954
2027	1,556,824,140	37,889,873	227,319,954
2028	1,570,726,580	38,228,229	229,349,921
2029	1,584,753,168	38,569,607	231,398,016
2030	1,598,905,014	38,914,034	233,464,400
2031	1,613,183,236	39,261,536	235,549,237
2032	1,627,588,962	39,612,142	237,652,692
2033	1,642,123,331	39,965,878	239,774,930
2034	1,656,787,493	40,322,773	241,916,121
2035	1,671,582,605	40,682,856	244,076,431
2036	1,686,509,838	41,046,154	246,256,034
2037	1,701,570,371	41,412,696	248,455,100
2038	1,716,765,394	41,782,511	250,673,804
2039	1,732,096,109	42,155,629	252,912,322
2040	1,747,563,727	42,532,079	255,170,829
2041	1,763,169,471	42,911,890	257,449,504
2042	1,778,914,575	43,295,093	259,748,528
2043	1,794,800,282	43,681,719	262,068,082

2044	1,810,827,848	44,071,796	264,408,350
2045	1,826,998,541	44,465,357	266,769,517
2046	1,843,313,638	44,862,433	269,151,769
2047	1,859,774,429	45,263,055	271,555,294
2048	1,876,382,215	45,667,254	273,980,283
2049	1,893,138,308	46,075,062	276,426,927
2050	1,910,044,033	46,486,513	278,895,419
2051	1,927,100,726	46,901,637	281,385,955
2052	1,944,309,735	47,320,469	283,898,732
2053	1,961,672,421	47,743,041	286,433,948
2054	1,979,190,156	48,169,386	288,991,803
2055	1,996,864,324	48,599,538	291,572,500
2056	2,014,696,323	49,033,532	294,176,242
Total	80,383,701,862	1,657,858,800	9,946,309,147



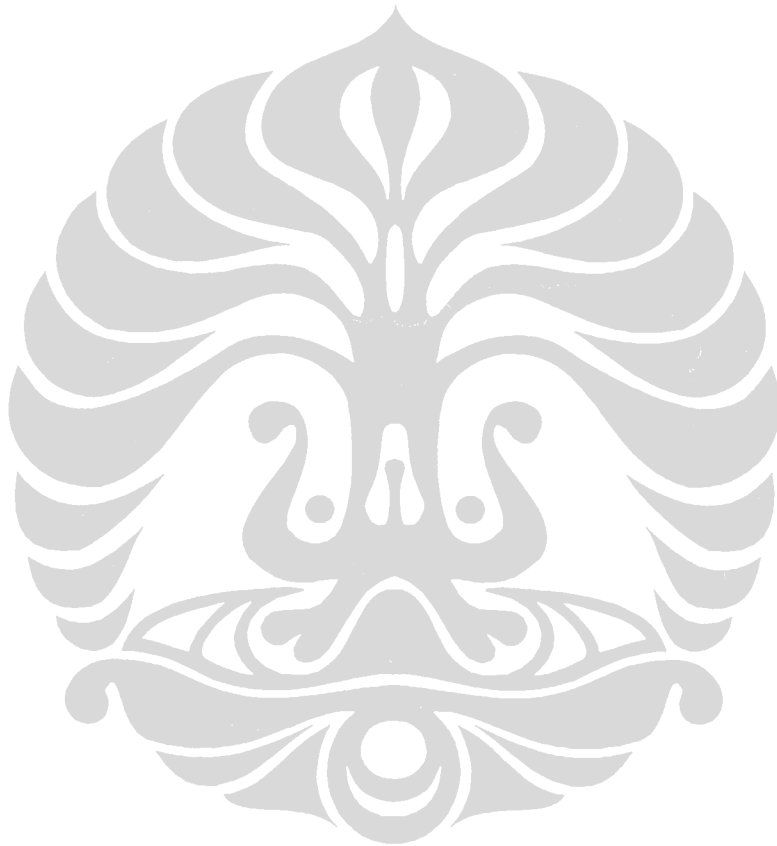
Lampiran 8

Nilai Pengurangan Polusi sebagai Manfaat Pembangunan KA Cepat

Tahun	Total Penumpang KA cepat	FV	Pengurangan Polusi	Nilai Pengurangan Polusi
2017	2,034,432	378,004	207,982,695.13	78,618,290,689,357
2018	2,052,600	404,470	209,839,980.60	84,873,976,951,666
2019	2,070,929	432,784	211,713,851.62	91,626,367,560,691
2020	2,089,423	463,078	213,604,456.32	98,915,524,422,697
2021	2,108,081	495,484	215,511,944.11	106,782,720,116,705
2022	2,126,906	530,156	217,436,465.77	115,275,246,948,649
2023	2,145,900	567,270	219,378,173.41	124,446,656,431,947
2024	2,165,063	607,024	221,337,220.50	134,357,004,937,701
2025	2,184,397	649,484	223,313,761.88	145,038,715,321,244
2026	2,203,903	694,936	225,307,953.77	156,574,608,164,006
2027	2,223,584	743,578	227,319,953.80	169,030,116,607,717
2028	2,243,441	795,630	229,349,920.99	182,477,677,636,334
2029	2,263,475	851,334	231,398,015.78	196,996,998,368,817
2030	2,283,687	910,932	233,464,400.06	212,670,192,879,276
2031	2,304,081	974,688	235,549,237.16	229,587,014,865,855
2032	2,324,656	1,042,910	237,652,691.84	247,850,368,851,628
2033	2,345,415	1,115,928	239,774,930.38	267,571,558,512,160
2034	2,366,360	1,194,028	241,916,120.51	288,854,621,541,588
2035	2,387,492	1,277,628	244,076,431.47	311,838,882,982,615
2036	2,408,812	1,367,058	246,256,034.00	336,646,281,328,291
2037	2,430,323	1,462,736	248,455,100.38	363,424,219,715,079
2038	2,452,025	1,565,146	250,673,804.43	392,341,102,308,840
2039	2,473,922	1,674,706	252,912,321.50	423,553,782,296,419
2040	2,496,014	1,791,130	255,170,828.53	457,044,126,113,671
2041	2,518,303	1,919,566	257,449,504.03	494,191,314,659,937
2042	2,540,792	2,051,566	259,748,528.10	532,891,248,809,673
2043	2,563,481	2,195,182	262,068,082.46	575,287,137,392,216
2044	2,586,373	2,348,852	264,408,350.44	621,056,082,740,792
2045	2,609,469	2,537,960	266,769,517.01	677,050,256,673,919
2046	2,632,772	2,727,067	269,151,768.79	733,994,960,498,280
2047	2,656,283	2,916,175	271,555,294.09	791,902,705,427,930
2048	2,680,003	3,105,282	273,980,282.86	850,786,150,327,297
2049	2,703,936	3,294,390	276,426,926.79	910,658,103,350,514
2050	2,728,082	3,559,622	278,895,419.25	992,762,270,051,180

2051	2,752,443	3,824,854	281,385,955.34	1,076,260,196,829,730
2052	2,777,023	4,090,086	283,898,731.92	1,161,170,228,852,600
2053	2,801,822	4,355,318	286,433,947.60	1,247,510,927,785,630
2054	2,826,842	4,620,550	288,991,802.75	1,335,301,074,197,820
2055	2,852,086	4,637,028	291,572,499.55	1,352,029,844,437,970
2056	2,877,555	4,653,506	294,176,241.97	1,368,950,907,063,980
Total		74,827,126	9,946,309,146.93	19,938,199,464,652,400

Sumber : Hasil Olahan



Lampiran 9

Nilai Efektifitas Produktivitas diukur berdasarkan Efisiensi Waktu Tempuh Perjalanan

Tahun	PDRB (2007)	Jml Penduduk (2007)	K	Tingkat pertumbuhan Penduduk	pengurangan waktu ke moda kereta api cepat (Jam)			Jml Perpindahan pnp ke moda KA Cepat	Nilai Efektifitas Produktivitas
					moda jalan raya	moda ka konvensional	Moda Udara		
2007	1,137,229,134,000	130,401,500.00	Rp.242.249		-	-		-	-
2017			Rp.242.249	1.09	12.75	7.78	0.25	2,034,432	Rp.11,195,194,577
2018			Rp.242.249	1.10	12.75	7.78	0.25	2,052,600	Rp.11,396,033,512
2019			Rp.242.249	1.11	12.75	7.78	0.25	2,070,929	Rp.11,600,475,446
2020			Rp.242.249	1.12	12.75	7.78	0.25	2,089,423	Rp.11,808,585,017
2021			Rp.242.249	1.13	12.75	7.78	0.25	2,108,081	Rp.12,020,428,019
2022			Rp.242.249	1.14	12.75	7.78	0.25	2,126,906	Rp.12,236,071,432
2023			Rp.242.249	1.15	12.75	7.78	0.25	2,145,900	Rp.12,455,583,432
2024			Rp.242.249	1.16	12.75	7.78	0.25	2,165,063	Rp.12,679,033,421
2025			Rp.242.249	1.17	12.75	7.78	0.25	2,184,397	Rp.12,906,492,046
2026			Rp.242.249	1.18	12.75	7.78	0.25	2,203,903	Rp.13,138,031,221
2027			Rp.242.249	1.19	12.75	7.78	0.25	2,223,584	Rp.13,373,724,150
2028			Rp.242.249	1.21	12.75	7.78	0.25	2,243,441	Rp.13,613,645,349
2029			Rp.242.249	1.22	12.75	7.78	0.25	2,263,475	Rp.13,857,870,674
2030			Rp.242.249	1.23	12.75	7.78	0.25	2,283,687	Rp.14,106,477,339
2031			Rp.242.249	1.24	12.75	7.78	0.25	2,304,081	Rp.14,359,543,944
2032			Rp.242.249	1.25	12.75	7.78	0.25	2,324,656	Rp.14,617,150,499

2033			Rp.242.249	1.26	12.75	7.78	0.25	2,345,415	Rp.14,879,378,450
2034			Rp.242.249	1.27	12.75	7.78	0.25	2,366,360	Rp.15,146,310,704
2035			Rp.242.249	1.28	12.75	7.78	0.25	2,387,492	Rp.15,418,031,654
2036			Rp.242.249	1.29	12.75	7.78	0.25	2,408,812	Rp.15,694,627,209
2037			Rp.242.249	1.31	12.75	7.78	0.25	2,430,323	Rp.15,976,184,817
2038			Rp.242.249	1.32	12.75	7.78	0.25	2,452,025	Rp.16,262,793,497
2039			Rp.242.249	1.33	12.75	7.78	0.25	2,473,922	Rp.16,554,543,864
2040			Rp.242.249	1.34	12.75	7.78	0.25	2,496,014	Rp.16,851,528,158
2041			Rp.242.249	1.35	12.75	7.78	0.25	2,518,303	Rp.17,153,840,274
2042			Rp.242.249	1.37	12.75	7.78	0.25	2,540,792	Rp.17,461,575,793
2043			Rp.242.249	1.38	12.75	7.78	0.25	2,563,481	Rp.17,774,832,008
2044			Rp.242.249	1.39	12.75	7.78	0.25	2,586,373	Rp.18,093,707,960
2045			Rp.242.249	1.40	12.75	7.78	0.25	2,609,469	Rp.18,418,304,465
2046			Rp.242.249	1.41	12.75	7.78	0.25	2,632,772	Rp.18,748,724,148
2047			Rp.242.249	1.43	12.75	7.78	0.25	2,656,283	Rp.19,085,071,477
2048			Rp.242.249	1.44	12.75	7.78	0.25	2,680,003	Rp.19,427,452,790
2049			Rp.242.249	1.45	12.75	7.78	0.25	2,703,936	Rp.19,775,976,338
2050			Rp.242.249	1.47	12.75	7.78	0.25	2,728,082	Rp.20,130,752,308
2051			Rp.242.249	1.48	12.75	7.78	0.25	2,752,443	Rp.20,491,892,869
2052			Rp.242.249	1.49	12.75	7.78	0.25	2,777,023	Rp.20,859,512,200
2053			Rp.242.249	1.51	12.75	7.78	0.25	2,801,822	Rp.21,233,726,527
2054			Rp.242.249	1.52	12.75	7.78	0.25	2,826,842	Rp.21,614,654,165
2055			Rp.242.249	1.53	12.75	7.78	0.25	2,852,086	Rp.22,002,415,546
2056			Rp.242.249	1.55	12.75	7.78	0.25	2,877,555	Rp.22,397,133,269
Total								97,292,183	Rp.646,817,310,565

Lampiran 10

Manfaat Kereta Api Cepat (Rp.)

Tahun	Nilai Pengurangan Polusi	Nilai Produktivitas	TOTAL SAVING
2017	78,618,290,689,357	11,195,194,577	78,629,485,883,934
2018	84,873,976,951,666	11,396,033,512	84,885,372,985,179
2019	91,626,367,560,691	11,600,475,446	91,637,968,036,137
2020	98,915,524,422,697	11,808,585,017	98,927,333,007,713
2021	106,782,720,116,705	12,020,428,019	106,794,740,544,725
2022	115,275,246,948,649	12,236,071,432	115,287,483,020,080
2023	124,446,656,431,947	12,455,583,432	124,459,112,015,379
2024	134,357,004,937,701	12,679,033,421	134,369,683,971,122
2025	145,038,715,321,244	12,906,492,046	145,051,621,813,290
2026	156,574,608,164,006	13,138,031,221	156,587,746,195,227
2027	169,030,116,607,717	13,373,724,150	169,043,490,331,867
2028	182,477,677,636,334	13,613,645,349	182,491,291,281,683
2029	196,996,998,368,817	13,857,870,674	197,010,856,239,491
2030	212,670,192,879,276	14,106,477,339	212,684,299,356,615
2031	229,587,014,865,855	14,359,543,944	229,601,374,409,798
2032	247,850,368,851,628	14,617,150,499	247,864,986,002,126
2033	267,571,558,512,160	14,879,378,450	267,586,437,890,610
2034	288,854,621,541,588	15,146,310,704	288,869,767,852,292
2035	311,838,882,982,615	15,418,031,654	311,854,301,014,269
2036	336,646,281,328,291	15,694,627,209	336,661,975,955,499
2037	363,424,219,715,079	15,976,184,817	363,440,195,899,896
2038	392,341,102,308,840	16,262,793,497	392,357,365,102,337
2039	423,553,782,296,419	16,554,543,864	423,570,336,840,283
2040	457,044,126,113,671	16,851,528,158	457,060,977,641,828
2041	494,191,314,659,937	17,153,840,274	494,208,468,500,211
2042	532,891,248,809,673	17,461,575,793	532,908,710,385,465
2043	575,287,137,392,216	17,774,832,008	575,304,912,224,224
2044	621,056,082,740,792	18,093,707,960	621,074,176,448,752
2045	677,050,256,673,919	18,418,304,465	677,068,674,978,384
2046	733,994,960,498,280	18,748,724,148	734,013,709,222,428
2047	791,902,705,427,930	19,085,071,477	791,921,790,499,406
2048	850,786,150,327,297	19,427,452,790	850,805,577,780,087
2049	910,658,103,350,514	19,775,976,338	910,677,879,326,851
2050	992,762,270,051,180	20,130,752,308	992,782,400,803,488
2051	1,076,260,196,829,730	20,491,892,869	1,076,280,688,722,600

2052	1,161,170,228,852,600	20,859,512,200	1,161,191,088,364,800
2053	1,247,510,927,785,630	21,233,726,527	1,247,532,161,512,160
2054	1,335,301,074,197,820	21,614,654,165	1,335,322,688,851,980
2055	1,352,029,844,437,970	22,002,415,546	1,352,051,846,853,520
2056	1,368,950,907,063,980	22,397,133,269	1,368,973,304,197,250
Total	19,938,199,464,652,400	646,817,310,565	19,938,846,281,963,000
Rata-rata	498,454,986,616,311	16,170,432,764	-

Sumber : Hasil Olahan

