

## BAB V

### KESIMPULAN DAN SARAN

#### 5.1. Kesimpulan

Secara keseluruhan, proyek Trans Jogja ini layak dijalankan. Hal ini didasarkan pada perhitungan finansial dari Trans Jogja yang hasilnya sebagai berikut :

1. NPV dari proyek Trans Jogja yang lebih dari 1, maka proyek tersebut layak dijalankan, di mana *benefit* atau keuntungan dari proyek yang diteliti nilainya lebih besar dari *cost* atau biaya dan *capital*.
2. IRR dari Trans sama dengan *discount rate* .Hal tersebut berarti proyek Trans Jogja tidak layak untuk dijalankan.
3. *Profitability Ratio* proyek Trans Jogja lebih dari 1, yang berarti proyek layak dijalankan.
4. *Payback Period* dari proyek Trans Jogja adalah 8 tahun 1 bulan 80 hari.

Dari 4 analisis tersebut 3 adalah menunjukkan proyek layak dan 1 menunjukkan proyek tidak layak. Peneliti menyimpulkan proyek Trans Jogja layak dijalankan dan diteruskan karena dari 4 analisis tersebut, 3 menunjukkan layak.

## 5.2. Saran

Berdasarkan analisis yang telah dilakukan, maka dalam penelitian ini peneliti memberi saran :

1. Memperluas jalur bus Trans Jogja karena semakin banyak peminatnya.
2. Meningkatkan kerja sama antara pihak pemerintah dan swasta.



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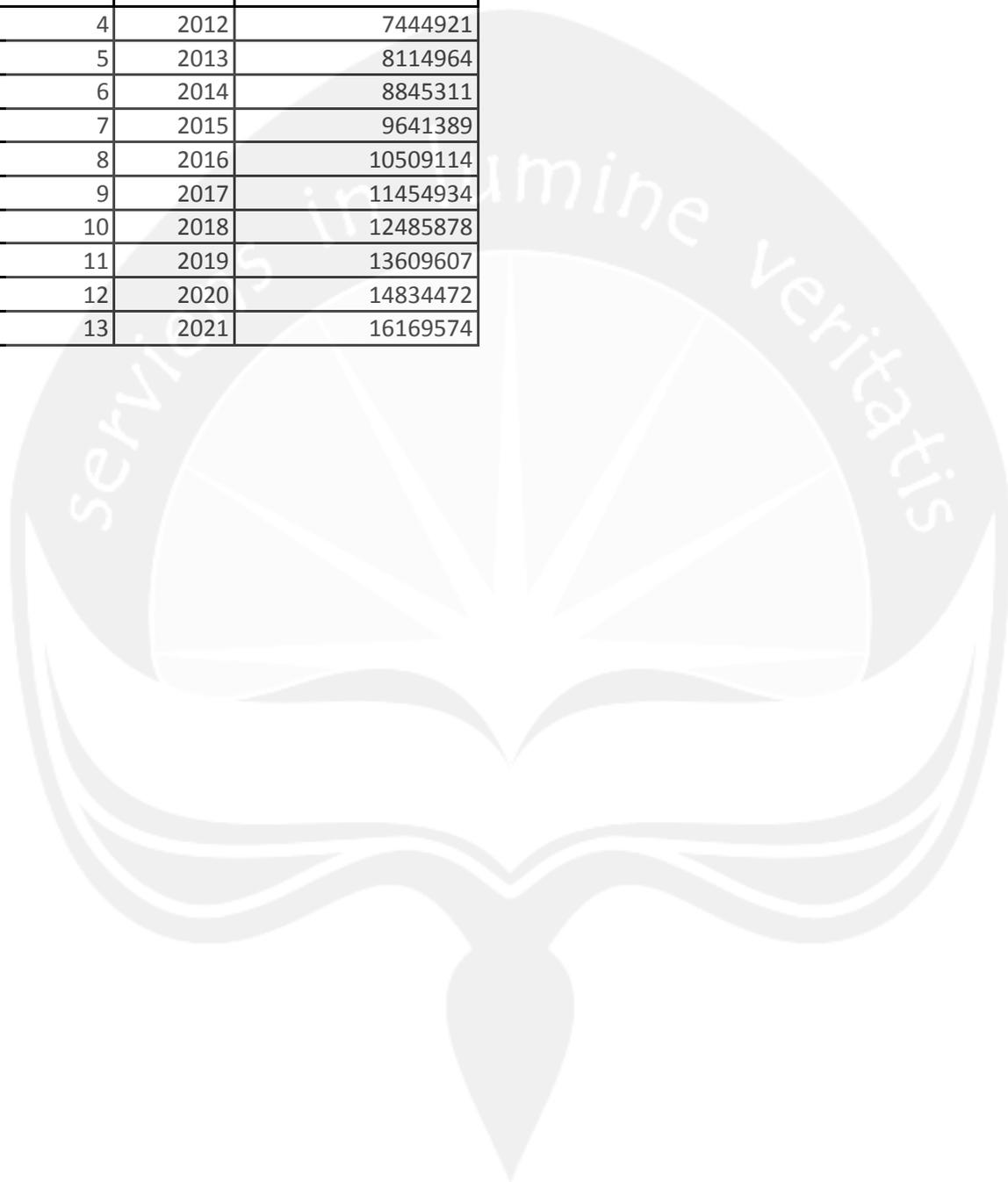
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**LAMPIRAN**

Lampiran 1

No	Tahun	Jumlah penumpang
0	2008	2775322
1	2009	5099431
2	2010	6013307
3	2011	6830203
4	2012	7444921
5	2013	8114964
6	2014	8845311
7	2015	9641389
8	2016	10509114
9	2017	11454934
10	2018	12485878
11	2019	13609607
12	2020	14834472
13	2021	16169574





## Lampiran 3

## biaya tetap

No	Tahun	asuransi	pajak	internet	gaji sopir	gaji karyawan	gaji petugas halte	biaya listrik	biaya telepon	bahan bakar	servis	perbaikan mesin	Total
0	2008	Rp194,000,000	Rp309,000,000	Rp16,800,000	Rp3,120,000,000	Rp3,672,000,000	Rp1,459,200,000	Rp24,780,000	Rp19,200,000	Rp709,000,000	Rp268,800,000		Rp9,792,780,000
1	2009	Rp194,000,000	Rp309,000,000	Rp15,600,000	Rp3,120,000,000	Rp3,672,000,000	Rp1,459,200,000	Rp25,695,000	Rp19,400,000	Rp645,000,000	Rp268,800,000		Rp9,728,695,000
2	2010	Rp194,000,000	Rp309,000,000	Rp15,400,000	Rp3,120,000,000	Rp3,672,000,000	Rp1,459,200,000	Rp26,722,800	Rp19,594,000	Rp580,000,000	Rp268,800,000		Rp9,664,716,800
3	2011	Rp194,000,000	Rp309,000,000	Rp15,100,000	Rp3,120,000,000	Rp3,672,000,000	Rp1,459,200,000	Rp27,791,712	Rp19,789,940	Rp580,000,000	Rp336,000,000	Rp1,600,000,000	Rp11,332,881,652
4	2012	Rp194,000,000	Rp309,000,000	Rp14,601,700	Rp3,120,000,000	Rp3,672,000,000	Rp1,459,200,000	Rp28,903,380	Rp19,987,839	Rp580,000,000	Rp336,000,000		Rp9,733,692,920
5	2013	Rp194,000,000	Rp309,000,000	Rp14,119,844	Rp4,680,000,000	Rp5,508,000,000	Rp2,188,800,000	Rp30,059,516	Rp20,187,718	Rp645,000,000	Rp336,000,000		Rp13,925,167,077
6	2014	Rp194,000,000	Rp309,000,000	Rp13,653,889	Rp4,680,000,000	Rp5,508,000,000	Rp2,188,800,000	Rp31,261,896	Rp20,389,595	Rp645,000,000	Rp403,200,000		Rp13,993,305,380
7	2015	Rp194,000,000	Rp309,000,000	Rp13,203,311	Rp4,680,000,000	Rp5,508,000,000	Rp2,188,800,000	Rp32,512,372	Rp20,593,491	Rp709,000,000	Rp403,200,000	Rp1,800,000,000	Rp15,858,309,174
8	2016	Rp388,000,000	Rp618,000,000	Rp12,767,601	Rp4,680,000,000	Rp5,508,000,000	Rp2,188,800,000	Rp33,812,867	Rp20,799,426	Rp709,000,000	Rp403,200,000		Rp14,562,379,894
9	2017	Rp388,000,000	Rp618,000,000	Rp12,346,271	Rp4,680,000,000	Rp5,508,000,000	Rp2,188,800,000	Rp35,165,382	Rp21,007,420	Rp774,000,000	Rp470,400,000		Rp14,695,719,072
10	2018	Rp388,000,000	Rp618,000,000	Rp11,938,844	Rp7,020,000,000	Rp7,344,000,000	Rp3,283,200,000	Rp36,571,997	Rp21,217,494	Rp838,000,000	Rp470,400,000		Rp20,031,328,335
11	2019	Rp388,000,000	Rp618,000,000	Rp11,544,862	Rp7,020,000,000	Rp7,344,000,000	Rp3,283,200,000	Rp38,034,877	Rp21,429,669	Rp838,000,000	Rp470,400,000		Rp20,032,609,408
12	2020	Rp388,000,000	Rp618,000,000	Rp11,163,881	Rp7,020,000,000	Rp7,344,000,000	Rp3,283,200,000	Rp39,556,272	Rp21,643,966	Rp903,000,000	Rp537,600,000	Rp2,000,000,000	Rp22,166,164,119
13	2021	Rp388,000,000	Rp618,000,000	Rp10,795,473	Rp7,020,000,000	Rp7,344,000,000	Rp3,283,200,000	Rp41,138,523	Rp21,860,406	Rp966,666,667	Rp537,600,000		Rp20,231,261,068

Lampiran 4  
biaya variabel

No	Tahun	perbaikan interior bus (56)	perbaikan halte (76)	biaya administrasi	total
0	2008	Rp12,880,000		Rp693,830,500	Rp706,710,500
1	2009	Rp23,670,000	Rp60,800,000	Rp1,274,857,750	Rp1,359,327,750
2	2010	Rp27,900,000	Rp71,700,000	Rp1,503,326,750	Rp1,602,926,750
3	2011	Rp31,690,000	Rp81,400,000	Rp1,707,550,750	Rp1,820,640,750
4	2012	Rp36,007,978	Rp92,660,473	Rp1,929,532,348	Rp2,058,200,798
5	2013	Rp40,957,712	Rp105,397,783	Rp3,052,520,174	Rp3,198,875,669
6	2014	Rp46,730,956	Rp120,254,254	Rp3,449,347,796	Rp3,616,333,006
7	2015	Rp53,163,631	Rp136,807,661	Rp5,011,409,584	Rp5,201,380,877
8	2016	Rp60,496,881	Rp155,678,546	Rp5,662,892,830	Rp5,879,068,257
9	2017	Rp68,856,786	Rp177,191,355	Rp7,821,084,209	Rp8,067,132,349
10	2018	Rp78,387,077	Rp201,715,956	Rp8,837,825,156	Rp9,117,928,189
11	2019	Rp89,478,510	Rp230,257,895	Rp11,802,513,776	Rp12,122,250,181
12	2020	Rp101,864,077	Rp262,130,067	Rp13,336,840,567	Rp13,700,834,711
13	2021	Rp115,983,623	Rp298,464,344	Rp17,389,188,278	Rp17,803,636,245

## Lampiran 5

## Benefit

No	Tahun	Tiket Bus	Sponsor	Total
0	2008	Rp8,325,965,500		Rp8,325,965,500
1	2009	Rp15,298,293,000		Rp15,298,293,000
2	2010	Rp17,504,921,000	Rp85,000,000	Rp17,589,921,000
3	2011	Rp19,955,609,940	Rp153,000,000	Rp20,108,609,940
4	2012	Rp22,334,763,810	Rp153,000,000	Rp22,487,763,810
5	2013	Rp28,402,374,645	Rp162,000,000	Rp28,564,374,645
6	2014	Rp30,958,588,363	Rp162,000,000	Rp31,120,588,363
7	2015	Rp38,565,555,789	Rp180,000,000	Rp38,745,555,789
8	2016	Rp42,036,455,811	Rp180,000,000	Rp42,216,455,811
9	2017	Rp51,547,203,938	Rp189,000,000	Rp51,736,203,938
10	2018	Rp56,186,452,292	Rp189,000,000	Rp56,375,452,292
11	2019	Rp68,048,036,665	Rp198,000,000	Rp68,246,036,665
12	2020	Rp74,172,359,965	Rp198,000,000	Rp74,370,359,965
13	2021	Rp88,932,659,598	Rp207,000,000	Rp89,139,659,598

## Lampiran 6

no	tahun	kapital	cost		benefit	net benefit	discount factor	NPV
			biaya tetap	biaya variabel				
							15.00%	
0	2008	Rp35,062,650,000	Rp9,792,780,000	Rp706,710,500	Rp8,325,965,500	-Rp37,236,175,000	1	-Rp37,236,175,000
1	2009		Rp9,728,695,000	Rp1,359,327,750	Rp15,298,293,000	Rp4,210,270,250	0.869565217	Rp3,661,104,565
2	2010		Rp9,664,716,800	Rp1,602,926,750	Rp17,589,921,000	Rp6,322,277,450	0.756143667	Rp4,780,550,057
3	2011		Rp11,332,881,652	Rp1,820,640,750	Rp20,108,609,940	Rp6,955,087,538	0.657516232	Rp4,573,082,954
4	2012		Rp9,733,692,920	Rp2,058,200,798	Rp22,487,763,810	Rp10,695,870,092	0.571753246	Rp6,115,398,439
5	2013	Rp56,400,000	Rp13,925,167,077	Rp3,198,875,669	Rp28,564,374,645	Rp11,383,931,899	0.497176735	Rp5,659,826,096
6	2014		Rp13,993,305,380	Rp3,616,333,006	Rp31,120,588,363	Rp13,510,949,977	0.432327596	Rp5,841,156,522
7	2015		Rp15,858,309,174	Rp5,201,380,877	Rp38,745,555,789	Rp17,685,865,739	0.37593704	Rp6,648,772,014
8	2016		Rp14,562,379,894	Rp5,879,068,257	Rp42,216,455,811	Rp21,775,007,659	0.326901774	Rp7,118,288,629
9	2017	Rp33,600,000,000	Rp14,695,719,072	Rp8,067,132,349	Rp51,736,203,938	-Rp4,626,647,484	0.284262412	-Rp1,315,181,973
10	2018	Rp106,425,000	Rp20,031,328,335	Rp9,117,928,189	Rp56,375,452,292	Rp27,119,770,768	0.247184706	Rp6,703,592,567
11	2019		Rp20,032,609,408	Rp12,122,250,181	Rp68,246,036,665	Rp36,091,177,076	0.214943223	Rp7,757,553,912
12	2020		Rp22,166,164,119	Rp13,700,834,711	Rp74,370,359,965	Rp38,503,361,134	0.18690715	Rp7,196,553,502
13	2021		Rp20,231,261,068	Rp17,803,636,245	Rp89,139,659,598	Rp51,104,762,285	0.162527957	Rp8,305,952,591
jumlah								Rp35,810,474,877

NPV Rp35,810,474,877  
 IRR 10%  
 PR 1.801699269  
 PP 8.15

PV of Cost	PV of Kapital	PV of benefit	PV of B-C	akumulasi PV of B-C	PV of net benefit
Rp10,499,490,500	Rp35,062,650,000	Rp8,325,965,500	-Rp2,173,525,000	Rp150,994,604	-Rp37,236,175,000
Rp9,641,758,913	Rp0	Rp13,302,863,478	Rp3,661,104,565	Rp3,812,099,169	Rp3,661,104,565
Rp8,519,957,316	Rp0	Rp13,300,507,372	Rp4,780,550,057	Rp8,592,649,226	Rp4,780,550,057
Rp8,648,654,493	Rp0	Rp13,221,737,447	Rp4,573,082,954	Rp13,165,732,180	Rp4,573,082,954
Rp6,742,053,505	Rp0	Rp12,857,451,944	Rp6,115,398,439	Rp19,281,130,620	Rp6,115,398,439
Rp8,513,675,668	Rp28,040,768	Rp14,201,542,532	Rp5,687,866,864	Rp24,968,997,484	Rp5,659,826,096
Rp7,613,132,628	Rp0	Rp13,454,289,150	Rp5,841,156,522	Rp30,810,154,006	Rp5,841,156,522
Rp7,917,117,539	Rp0	Rp14,565,889,554	Rp6,648,772,014	Rp37,458,926,020	Rp6,648,772,014
Rp6,682,345,661	Rp0	Rp13,800,634,290	Rp7,118,288,629	Rp44,577,214,650	Rp7,118,288,629
Rp6,470,623,050	Rp9,551,217,045	Rp14,706,658,121	Rp8,236,035,071	Rp52,813,249,721	-Rp1,315,181,973
Rp7,205,250,408	Rp26,306,632	Rp13,935,149,607	Rp6,729,899,200	Rp59,543,148,920	Rp6,703,592,567
Rp6,911,469,146	Rp0	Rp14,669,023,058	Rp7,757,553,912	Rp67,300,702,833	Rp7,757,553,912
Rp6,703,798,537	Rp0	Rp13,900,352,039	Rp7,196,553,502	Rp74,497,256,335	Rp7,196,553,502
Rp6,181,734,143	Rp0	Rp14,487,686,734	Rp8,305,952,591	Rp82,803,208,926	Rp8,305,952,591
	Rp44,668,214,445		Rp80,478,689,322	Rp519,775,464,693	