

CHAPTER 10

PROJECT EVALUATION

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

FUEL COST CLASSIFIED BY FUEL TYPE

Type of Fuel	(Baht/litre)				
	Financial Cost	VAT (7%)	Excise & Municipality Tax	Total Taxes	Economic Cost
Premium Petrol	8.90	0.5822	3.4890	4.0713	4.8287
Unlead Petrol	8.70	0.5692	2.4313	3.0004	5.6996
Regular Petrol	8.25	0.5397	3.1999	3.7396	4.5104
High-Speed Diesel	7.40	0.4841	2.1556	2.6397	4.7603

September 14, 1994

USAGE OF DIFFERENT FUEL TYPES

Vehicle Type	Petrol (%)			Diesel (%)
	Premium	Unleaded	Regular	
Motorcycle			100	
Passenger Car	40	30	30	
Light Bus	10		10	80
Heavy Bus				100
Pickup (passenger)	10		10	80
Light Truck	10		10	80
Medium Truck				100
Heavy Truck				100

OIL COST BY VEHICLE TYPE

Vehicle Type	(Baht/litre)		
	Financial Cost	Economic Cost	Tax
M/C	56.0	52.3	3.7
P/C	65.0	60.7	4.3
L/B	54.0	50.5	3.5
H/B	50.0	46.7	3.3
P/P	54.0	50.5	3.5
L/T	54.0	50.5	3.5
M/T	50.0	46.7	3.3
H/T	50.0	46.7	3.3

FUEL COST CLASSIFIED BY VEHICLE TYPE

Vehicle Type	(Baht/litre)		
	Financial Cost	Tax	Economic Cost
MC	8.4500	3.7896	4.6604
PC	8.8450	3.7005	5.1445
LB	7.8350	2.9429	4.8921
HB	7.6000	2.6897	4.9103
PP	7.8350	2.9429	4.8921
LT	7.8350	2.9429	4.8921
MT	7.6000	2.6897	4.9103
HT	7.6000	2.6897	4.9103

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

VARIATION IN FUEL CONSUMPTION WITH SPEED

(Unit: Litre/1000km)

Speed	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T
Paved Road (Good Condition)								
20	33.0	138.0	156.0	311.2	156.0	156.0	197.0	342.3
30	32.0	108.1	122.2	284.2	122.2	122.2	160.4	312.6
40	31.4	95.5	107.9	264.5	107.9	107.9	147.8	290.9
50	31.7	89.7	101.4	284.2	101.4	101.4	160.4	312.6
60	33.2	86.2	97.5	326.1	97.5	97.5	178.0	358.6
70	35.6	85.4	98.2	380.9	98.2	98.2	202.6	418.9
80	39.0	88.6	102.0	438.1	102.0	102.0	243.9	481.8
90	43.5	94.3	107.2	500.0	107.2	107.2	280.0	550.0
100	52.5	115.0	140.0	561.8	140.0	140.0	320.0	618.0
110		142.2	173.1	684.0	173.1	173.1	395.7	738.0
120		204.0	248.3	860.0	248.3	248.3	520.0	940.0
Laterite Road (Good Condition)								
20	36.3	151.8	174.7	371.8	174.7	174.7	234.4	410.7
30	35.2	118.9	138.0	339.6	138.0	138.0	190.9	375.1
40	34.6	105.0	122.3	316.1	122.3	122.3	175.8	345.5
50	34.9	98.2	114.6	339.6	114.6	114.6	190.9	372.0
60	37.2	97.4	110.1	391.3	110.1	110.1	213.6	430.3
70	40.9	98.2	112.9	457.1	112.9	112.9	243.2	506.7
80		101.9	117.3	525.7	117.3	117.3	292.8	582.8
Laterite Road (Poor Condition)								
20	40.9	163.3	199.6	420.1	199.6	199.6	267.9	465.5
30	39.0	130.8	157.3	386.5	157.3	157.3	218.2	421.9
40	37.6	116.5	139.2	365.0	139.2	139.2	204.0	391.9
50	38.3	112.1	131.8	395.0	131.8	131.8	224.5	425.1

ECONOMIC FUEL COST BY SPEED

Speed	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T
(Bht/km)								
Paved Road (Good Condition)								
20	0.1538	0.7099	0.7632	1.5281	0.7632	0.7632	0.9673	1.6808
30	0.1491	0.5561	0.5978	1.3955	0.5978	0.5978	0.7876	1.5350
40	0.1463	0.4913	0.5279	1.2988	0.5279	0.5279	0.7257	1.4284
50	0.1477	0.4615	0.4961	1.3955	0.4961	0.4961	0.7876	1.5350
60	0.1547	0.4435	0.4770	1.6012	0.4770	0.4770	0.8740	1.7608
70	0.1659	0.4393	0.4804	1.8703	0.4804	0.4804	0.9948	2.0569
80	0.1818	0.4558	0.4990	2.1512	0.4990	0.4990	1.1976	2.3658
90	0.2027	0.4851	0.5244	2.4551	0.5244	0.5244	1.3749	2.7006
100	0.2447	0.5916	0.6849	2.7586	0.6849	0.6849	1.5713	3.0345
110		0.7315	0.8468	3.3586	0.8468	0.8468	1.9430	3.6238
120		1.0495	1.2147	4.2228	1.2147	1.2147	2.5533	4.6157
Laterite Road (Good Condition)								
20	0.1692	0.7809	0.8547	1.8256	0.8547	0.8547	1.1510	2.0166
30	0.1640	0.6117	0.6751	1.6675	0.6751	0.6751	0.9374	1.8418
40	0.1613	0.5402	0.5983	1.5521	0.5983	0.5983	0.8632	1.6965
50	0.1626	0.5052	0.5606	1.6675	0.5606	0.5606	0.9374	1.8266
60	0.1734	0.5011	0.5386	1.9214	0.5386	0.5386	1.0488	2.1129
70	0.1906	0.5052	0.5523	2.2445	0.5523	0.5523	1.1942	2.4880
80		0.5242	0.5738	2.5813	0.5738	0.5738	1.4377	2.8617
Laterite Road (Poor Condition)								
20	0.1906	0.8401	0.9765	2.0628	0.9765	0.9765	1.3155	2.2857
30	0.1818	0.6729	0.7695	1.8978	0.7695	0.7695	1.0714	2.0716
40	0.1752	0.5993	0.6810	1.7922	0.6810	0.6810	1.0017	1.9243
50	0.1785	0.5767	0.6448	1.9396	0.6448	0.6448	1.1024	2.0874

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

OIL CONSUMPTION BY ROAD TYPE

(Litre/1000km)

Road Type	M/C	P/C	L/B,L/T,P/P	M/T	H/B & H/T
Paved (Good)	0.1	0.5	0.7	1.4	2.0
Laterite (Good)	0.1	0.6	1.0	1.9	2.6
Laterite (Poor)	0.2	1.0	1.4	2.7	4.0

ECONOMIC OIL COST BY ROAD TYPE

(Baht/km)

Speed	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T
Paved Road (Good Condition)								
20	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
30	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
40	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
50	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
60	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
70	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
80	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
90	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
100	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
110	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
120	0.0052	0.0304	0.0353	0.0935	0.0353	0.0353	0.0654	0.0935
Laterite Road (Good Condition)								
20	0.0052	0.0364	0.0505	0.1215	0.0505	0.0505	0.0888	0.1215
30	0.0052	0.0364	0.0505	0.1215	0.0505	0.0505	0.0888	0.1215
40	0.0052	0.0364	0.0505	0.1215	0.0505	0.0505	0.0888	0.1215
50	0.0052	0.0364	0.0505	0.1215	0.0505	0.0505	0.0888	0.1215
60	0.0052	0.0364	0.0505	0.1215	0.0505	0.0505	0.0888	0.1215
70	0.0052	0.0364	0.0505	0.1215	0.0505	0.0505	0.0888	0.1215
80	0.0052	0.0364	0.0505	0.1215	0.0505	0.0505	0.0888	0.1215
Laterite Road (Poor Condition)								
20	0.0105	0.0607	0.0707	0.1869	0.0707	0.0707	0.1262	0.1869
30	0.0105	0.0607	0.0707	0.1869	0.0707	0.0707	0.1262	0.1869
40	0.0105	0.0607	0.0707	0.1869	0.0707	0.0707	0.1262	0.1869
50	0.0105	0.0607	0.0707	0.1869	0.0707	0.0707	0.1262	0.1869

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

FINANCIAL AND ECONOMIC COST OF TYRES (1994 prices)

Vehicle Type	No. of Tyres	Single Tyre		Set of Tyres (including spare)		Set of Tyres (excluding spare)		
		Financial price	Tax	Economic Price	Financial	Economic	Financial	Economic
Motorcycle (MC)	2	360	24	336	720	673	720	673
Passenger Car (PC)	5	1,200	79	1,121	6,000	5,607	4,800	4,486
Light Bus (LB)	5	1,500	98	1,402	7,500	7,009	6,000	5,607
Heavy Bus (HB)	7	3,900	255	3,645	27,300	25,514	23,400	21,869
Pickup Passenger (PP)	5	1,500	98	1,402	7,500	7,009	6,000	5,607
Light Truck (LT)	5	1,500	98	1,402	7,500	7,009	6,000	5,607
Medium Truck (MT)	7	2,800	183	2,617	19,600	18,318	16,800	15,701
Heavy Truck (HT)	11	4,500	294	4,206	49,500	46,262	45,000	42,056

(Unit : Baht)

TYRE CONSUMPTION BY ROAD TYPE

Road Type	M/C	P/C	LB/LT, P/P	MT	H/B	H/T
Tyre life (kilometres)						
Paved (Good)	33,000	45,000	45,000	45,000	50,000	55,000
Laterite (Good)	20,000	28,000	28,000	28,000	31,000	33,900
Laterite (Poor)	9,000	13,000	13,000	13,000	14,000	15,600
Tyre consumption (tyres per 1000 km)						
Paved (Good)	0.0606	0.0889	0.0889	0.1333	0.1200	0.1818
Laterite (Good)	0.1000	0.1429	0.1429	0.2143	0.1935	0.2950
Laterite (Poor)	0.2222	0.3077	0.3077	0.4615	0.4286	0.6410

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

ECONOMIC TYRE COST BY ROAD TYPE

									(Baht/km)
Speed	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T	
Paved Road (Good Condition)									
20	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
30	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
40	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
50	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
60	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
70	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
80	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
90	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
100	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
110	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
120	0.0204	0.0997	0.1246	0.4374	0.1246	0.1246	0.3489	0.7647	
Laterite Road (Good Condition)									
20	0.0336	0.1602	0.2003	0.7055	0.2003	0.2003	0.5607	1.2406	
30	0.0336	0.1602	0.2003	0.7055	0.2003	0.2003	0.5607	1.2406	
40	0.0336	0.1602	0.2003	0.7055	0.2003	0.2003	0.5607	1.2406	
50	0.0336	0.1602	0.2003	0.7055	0.2003	0.2003	0.5607	1.2406	
60	0.0336	0.1602	0.2003	0.7055	0.2003	0.2003	0.5607	1.2406	
70	0.0336	0.1602	0.2003	0.7055	0.2003	0.2003	0.5607	1.2406	
80	0.0336	0.1602	0.2003	0.7055	0.2003	0.2003	0.5607	1.2406	
Laterite Road (Poor Condition)									
20	0.0748	0.3451	0.4313	1.5621	0.4313	0.4313	1.2078	2.6959	
30	0.0748	0.3451	0.4313	1.5621	0.4313	0.4313	1.2078	2.6959	
40	0.0748	0.3451	0.4313	1.5621	0.4313	0.4313	1.2078	2.6959	
50	0.0748	0.3451	0.4313	1.5621	0.4313	0.4313	1.2078	2.6959	

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

FINANCIAL AND ECONOMIC COST OF VEHICLE

(Unit : Baht)

Representative Vehicles	Vehicle Type	CIF Price (US.\$)	CIF Price (Baht)	Import Duty (%)	Import Duty	VAT	Total Taxes	Economic Price	Retail Price	Economic Price (less tyres)	Financial Price (less tyres)
Yamaha RXZ-M 135cc	M/C	668	16,700	40	6,680	3,107	9,787	37,713	47,500	37,040	46,780
Toyota Corolla 1600	P/C	5,736	143,400	20	28,680	180,384	209,064	369,936	579,000	364,329	573,000
Toyota Hilux Diesel	L/B	3,518	87,950	20	17,590	22,374	39,964	302,036	342,000	295,027	334,500
Hino AK176	H/B	21,951	548,775	10	54,878	140,654	195,532	1,954,468	2,150,000	1,928,954	2,122,700
Toyota Hilux Diesel	P/P	3,518	87,950	20	17,590	22,374	39,964	302,036	342,000	295,027	334,500
Toyota Hilux Diesel (Extra cap)	L/T	3,526	88,150	20	17,630	21,065	38,695	283,305	322,000	276,295	314,500
Isuzu NPR59LU5	M/T	12,879	321,975	10	32,198	35,785	67,983	479,017	547,000	460,700	527,400
Hino FM3M 240H.P.	H/T	37,021	925,525	10	92,553	106,963	199,515	1,435,485	1,635,000	1,389,223	1,585,500

SALVAGE VALUES

(Percent of Vehicle Price)

Road Type	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T
Paved (Good Condition)	15	25	20	15	20	20	15	15
Laterite (Good Condition)	10	15	12	10	12	12	10	10
Laterite (Poor Condition)	5	5	5	5	5	5	5	5

ANNUAL KILOMETRAGE

(Km/Year)

Speed	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T
20	9,500	15,500	25,200	76,000	25,200	22,000	31,200	55,000
30	10,500	17,000	27,400	82,000	27,400	24,000	33,400	60,000
40	11,500	18,500	29,600	88,000	29,600	26,000	35,600	65,000
50	12,500	20,000	31,800	94,000	31,800	28,000	37,800	70,000
60	13,500	21,500	34,000	100,000	34,000	30,000	40,000	75,000
70	14,500	23,000	36,200	106,000	36,200	32,000	42,200	80,000
80	15,500	24,500	38,400	112,000	38,400	34,000	44,400	85,000
90	16,500	26,000	40,600	118,000	40,600	36,000	46,600	90,000
100	17,500	27,500	42,800	124,000	42,800	38,000	48,800	95,000
110	18,500	29,000	45,000	130,000	45,000	40,000	51,000	100,000
120	19,500	30,500	47,200	136,000	47,200	42,000	53,200	105,000

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

VARIATION IN VEHICLE LIFE AT DIFFERENT SPEEDS

Speed	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T	(Year)
Paved Road (Good Condition)									
20	8.98	13.94	11.16	13.26	11.16	11.21	13.13	13.45	
30	8.63	13.41	10.80	12.88	10.80	10.83	12.79	13.00	
40	8.35	12.97	10.50	12.55	10.50	10.51	12.49	12.62	
50	8.11	12.60	10.23	12.26	10.23	10.24	12.23	12.29	
60	7.90	12.28	10.00	12.00	10.00	10.00	12.00	12.00	
70	7.72	12.00	9.80	11.77	9.80	9.79	11.79	11.75	
80	7.57	11.76	9.62	11.57	9.62	9.61	11.60	11.53	
90	7.43	11.54	9.46	11.39	9.46	9.44	11.43	11.33	
100	7.31	11.35	9.31	11.23	9.31	9.30	11.28	11.16	
110	7.21	11.17	9.19	11.08	9.19	9.17	11.14	11.00	
120	7.11	11.02	9.07	10.94	9.07	9.05	11.01	10.86	
Laterite Road (Good Condition)									
20	7.61	9.87	8.70	9.71	8.70	8.73	9.53	9.68	
30	7.33	9.53	8.43	9.44	8.43	8.44	9.30	9.38	
40	7.10	9.24	8.20	9.20	8.20	8.21	9.09	9.12	
50	6.91	9.00	8.00	9.00	8.00	8.00	8.91	8.89	
60	6.74	8.79	7.83	8.82	7.83	7.82	8.75	8.70	
70	6.60	8.61	7.68	8.66	7.68	7.67	8.61	8.53	
80	6.47	8.45	7.54	8.52	7.54	7.53	8.48	8.38	
Laterite Road (Poor Condition)									
20	6.21	6.10	5.15	6.16	5.15	5.15	6.14	6.18	
30	6.00	5.91	5.00	6.00	5.00	5.00	6.00	6.00	
40	5.83	5.76	4.88	5.86	4.88	4.87	5.88	5.85	
50	5.68	5.63	4.77	5.74	4.77	4.76	5.77	5.78	

ANNUAL KILOMETRAGE AND AVERAGE SPEED BY ROAD TYPE

Vehicle Type	Paved Road (Good Condition)		Laterite Road (Good Condition)		Laterite Road (Poor Condition)	
	Annual km	Average Speed	Annual km	Average Speed	Annual km	Average Speed
M/C	13,000	55	12,000	45	10,500	30
P/C	23,000	70	20,000	50	16,250	25
L/B	34,000	60	31,800	50	27,400	30
H/B	100,000	60	94,000	50	82,000	30
P/P	34,000	60	31,800	50	27,400	30
L/T	30,000	60	28,000	50	24,000	30
M/T	40,000	60	36,700	45	33,400	30
H/T	75,000	60	67,500	45	60,000	30

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

VARIATION IN ECONOMIC CAPITAL COST AT DIFFERENT SPEEDS

Speed	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T	(Baht/Year)
Paved Road (Good Condition)									
20	6,583	52,227	46,544	287,787	46,544	43,507	68,991	206,158	
30	6,722	52,902	47,201	291,015	47,201	44,151	69,695	208,836	
40	6,842	53,511	47,788	294,005	47,788	44,735	70,353	211,273	
50	6,952	54,063	48,349	296,787	48,349	45,259	70,954	213,532	
60	7,054	54,571	48,853	299,415	48,853	45,751	71,510	215,637	
70	7,146	55,042	49,312	301,851	49,312	46,204	72,041	217,548	
80	7,226	55,466	49,744	304,059	49,744	46,609	72,539	219,308	
90	7,305	55,872	50,143	306,123	50,143	47,007	73,001	220,975	
100	7,374	56,238	50,531	308,020	50,531	47,347	73,422	222,446	
110	7,434	56,597	50,851	309,855	50,851	47,673	73,827	223,878	
120	7,495	56,907	51,180	311,619	51,180	47,993	74,213	225,169	
Laterite Road (Good Condition)									
20	7,367	61,755	53,944	335,356	53,944	50,425	80,869	241,904	
30	7,534	62,828	54,880	340,269	54,880	51,362	81,906	245,877	
40	7,682	63,812	55,730	344,902	55,730	52,156	82,903	249,552	
50	7,811	64,678	56,511	348,969	56,511	52,923	83,798	252,998	
60	7,934	65,479	57,209	352,801	57,209	53,616	84,628	255,994	
70	8,040	66,198	57,853	356,351	57,853	54,221	85,381	258,797	
80	8,143	66,866	58,478	359,577	58,478	54,807	86,104	261,372	
Laterite Road (Poor Condition)									
20	8,579	85,406	77,839	449,211	77,839	72,897	107,522	322,815	
30	8,781	87,265	79,521	457,286	79,521	74,472	109,216	329,335	
40	8,955	88,822	80,943	464,728	80,943	75,918	110,734	335,088	
50	9,118	90,242	82,311	471,407	82,311	77,205	112,183	337,879	

VARIATION IN ECONOMIC CAPITAL COST AT DIFFERENT SPEEDS

Speed	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T	(Baht/km)
Paved Road (Good Condition)									
20	0.6930	3.3695	1.8470	3.7867	1.8470	1.9776	2.2113	3.7483	
30	0.6402	3.1119	1.7227	3.5490	1.7227	1.8396	2.0867	3.4806	
40	0.5949	2.8925	1.6145	3.3410	1.6145	1.7206	1.9762	3.2504	
50	0.5561	2.7031	1.5204	3.1573	1.5204	1.6164	1.8771	3.0505	
60	0.5225	2.5382	1.4368	2.9941	1.4368	1.5250	1.7878	2.8752	
70	0.4928	2.3931	1.3622	2.8476	1.3622	1.4439	1.7071	2.7193	
80	0.4662	2.2639	1.2954	2.7148	1.2954	1.3708	1.6338	2.5801	
90	0.4427	2.1489	1.2351	2.5943	1.2351	1.3058	1.5666	2.4553	
100	0.4214	2.0450	1.1806	2.4840	1.1806	1.2460	1.5046	2.3415	
110	0.4018	1.9516	1.1300	2.3835	1.1300	1.1918	1.4476	2.2388	
120	0.3844	1.8658	1.0843	2.2913	1.0843	1.1425	1.3950	2.1445	
Laterite Road (Good Condition)									
20	0.7755	3.9842	2.1406	4.4126	2.1406	2.2920	2.5919	4.3983	
30	0.7175	3.6958	2.0029	4.1496	2.0029	2.1401	2.4523	4.0979	
40	0.6680	3.4493	1.8828	3.9193	1.8828	2.0060	2.3287	3.8393	
50	0.6249	3.2339	1.7771	3.7124	1.7771	1.8901	2.2169	3.6143	
60	0.5877	3.0455	1.6826	3.5280	1.6826	1.7872	2.1157	3.4132	
70	0.5545	2.8782	1.5981	3.3618	1.5981	1.6944	2.0232	3.2350	
80	0.5253	2.7292	1.5229	3.2105	1.5229	1.6120	1.9393	3.0750	
Laterite Road (Poor Condition)									
20	0.9030	5.5101	3.0889	5.9107	3.0889	3.3135	3.4462	5.8694	
30	0.8363	5.1332	2.9022	5.5767	2.9022	3.1030	3.2699	5.4889	
40	0.7787	4.8012	2.7346	5.2810	2.7346	2.9199	3.1105	5.1552	
50	0.7295	4.5121	2.5884	5.0160	2.5884	2.7573	2.9678	4.8268	

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

MONTHLY MAINTENANCE COST

(Baht/Month)

Vehicle Type	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T
Paved Road (Good)								
Routine	160	800	1,000	5,500	1,000	1,000	2,000	3,500
Periodic	40	300	250	2,400	250	250	950	1,700
Total (Financial)	200	1,100	1,250	7,900	1,250	1,250	2,950	5,200
Tax	32	180	174	1,099	174	174	410	723
Economic Cost	168	920	1,076	6,801	1,076	1,076	2,540	4,477
Laterite Road (Good)								
Routine	176	880	1,100	6,050	1,100	1,100	2,200	3,850
Periodic	50	440	330	3,150	330	330	1,260	2,220
Total (Financial)	226	1,320	1,430	9,200	1,430	1,430	3,460	6,070
Tax	36	216	199	1,280	199	199	481	844
Economic Cost	190	1,104	1,231	7,920	1,231	1,231	2,979	5,226
Laterite Road (Poor)								
Routine	200	1,000	1,250	6,875	1,250	1,250	2,500	4,375
Periodic	55	625	520	4,720	520	520	1,900	3,330
Total (Financial)	255	1,625	1,770	11,595	1,770	1,770	4,400	7,705
Tax	41	266	246	1,613	246	246	612	1,071
Economic Cost	214	1,359	1,524	9,982	1,524	1,524	3,788	6,634

ECONOMIC MAINTENANCE COSTS BY ROAD TYPE AT DIFFERENT SPEED

(Baht/km)

Speed	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T
Paved Road (Good Condition)								
20	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
30	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
40	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
50	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
60	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
70	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
80	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
90	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
100	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
110	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
120	0.1551	0.4800	0.3798	0.8161	0.3798	0.4304	0.7620	0.7163
Laterite Road (Good Condition)								
20	0.1898	0.6624	0.4645	1.0111	0.4645	0.5275	0.9741	0.9291
30	0.1898	0.6624	0.4645	1.0111	0.4645	0.5275	0.9741	0.9291
40	0.1898	0.6624	0.4645	1.0111	0.4645	0.5275	0.9741	0.9291
50	0.1898	0.6624	0.4645	1.0111	0.4645	0.5275	0.9741	0.9291
60	0.1898	0.6624	0.4645	1.0111	0.4645	0.5275	0.9741	0.9291
70	0.1898	0.6624	0.4645	1.0111	0.4645	0.5275	0.9741	0.9291
80	0.1898	0.6624	0.4645	1.0111	0.4645	0.5275	0.9741	0.9291
Laterite Road (Poor Condition)								
20	0.2448	1.0036	0.6673	1.4608	0.6673	0.7618	1.3611	1.3267
30	0.2448	1.0036	0.6673	1.4608	0.6673	0.7618	1.3611	1.3267
40	0.2448	1.0036	0.6673	1.4608	0.6673	0.7618	1.3611	1.3267
50	0.2448	1.0036	0.6673	1.4608	0.6673	0.7618	1.3611	1.3267

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

CREW SALARIES AND ALLOWANCES

	(Baht/Year)			
	L/B, P/P	H/B	M/T	H/T
(Financial)				
Driver salary	49,200	79,560	60,000	60,000
Driver allowance		45,240	36,000	57,000
Assistant salary		71,280	42,000	84,000
Total	49,200	196,080	138,000	201,000
(Economic)				
Driver salary	44,280	71,604	54,000	54,000
Driver allowance		45,240	36,000	57,000
Assistant salary		64,152	37,800	75,600
Total	44,280	180,996	127,800	186,600

VARIATION IN ECONOMIC CREW SALARIES AND ALLOWANCE COST

Speed	M/C	P/C	(Baht/km)					
			L/B	H/B	P/P	L/T	M/T	H/T
Paved Road (Good Condition)								
20			1.7571	2.3815	1.7571		4.0962	3.3927
30			1.6161	2.2073	1.6161		3.8263	3.1100
40			1.4959	2.0568	1.4959		3.5899	2.8708
50			1.3925	1.9255	1.3925		3.3810	2.6657
60			1.3024	1.8100	1.3024		3.1950	2.4880
70			1.2232	1.7075	1.2232		3.0284	2.3325
80			1.1531	1.6160	1.1531		2.8784	2.1953
90			1.0906	1.5339	1.0906		2.7425	2.0733
100			1.0346	1.4596	1.0346		2.6189	1.9642
110			0.9840	1.3923	0.9840		2.5059	1.8660
120			0.9381	1.3309	0.9381		2.4023	1.7771
Laterite Road (Good Condition)								
20			1.7571	2.3815	1.7571		4.0962	3.3927
30			1.6161	2.2073	1.6161		3.8263	3.1100
40			1.4959	2.0568	1.4959		3.5899	2.8708
50			1.3925	1.9255	1.3925		3.3810	2.6657
60			1.3024	1.8100	1.3024		3.1950	2.4880
70			1.2232	1.7075	1.2232		3.0284	2.3325
80			1.1531	1.6160	1.1531		2.8784	2.1953
Laterite Road (Poor Condition)								
20			1.7571	2.3815	1.7571		4.0962	3.3927
30			1.6161	2.2073	1.6161		3.8263	3.1100
40			1.4959	2.0568	1.4959		3.5899	2.8708
50			1.3925	1.9255	1.3925		3.3810	2.6657

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

ANNUAL OVERHEAD COSTS

	(Baht/Year)			
	L/B	H/B	M/T	H/T
Financial Cost	4,826	85,026	9,573	50,566
Economic Cost	4,257	77,260	8,362	44,278
(E.C/F.C)	0.882	0.909	0.873	0.876

VARIATION IN ECONOMIC OVERHEAD COST AT DIFFERENT SPEEDS

									(Baht/km)
Speed	M/C	P/C	L/B	H/B	P/P	L/T	M/T	H/T	
Paved Road (Good Condition)									
20			0.1689	1.0166	0.1689		0.2680	0.8051	
30			0.1554	0.9422	0.1554		0.2504	0.7380	
40			0.1438	0.8780	0.1438		0.2349	0.6812	
50			0.1339	0.8219	0.1339		0.2212	0.6325	
60			0.1252	0.7726	0.1252		0.2091	0.5904	
70			0.1176	0.7289	0.1176		0.1982	0.5535	
80			0.1109	0.6898	0.1109		0.1883	0.5209	
90			0.1049	0.6547	0.1049		0.1794	0.4920	
100			0.0995	0.6231	0.0995		0.1714	0.4661	
110			0.0946	0.5943	0.0946		0.1640	0.4428	
120			0.0902	0.5681	0.0902		0.1572	0.4217	
Laterite Road (Good Condition)									
20			0.1689	1.0166	0.1689		0.2680	0.8051	
30			0.1554	0.9422	0.1554		0.2504	0.7380	
40			0.1438	0.8780	0.1438		0.2349	0.6812	
50			0.1339	0.8219	0.1339		0.2212	0.6325	
60			0.1252	0.7726	0.1252		0.2091	0.5904	
70			0.1176	0.7289	0.1176		0.1982	0.5535	
80			0.1109	0.6898	0.1109		0.1883	0.5209	
Laterite Road (Poor Condition)									
20			0.1689	1.0166	0.1689		0.2680	0.8051	
30			0.1554	0.9422	0.1554		0.2504	0.7380	
40			0.1438	0.8780	0.1438		0.2349	0.6812	
50			0.1339	0.8219	0.1339		0.2212	0.6325	

APPENDIX 10.2-1 BASIC DATA FOR ECONOMIC VEHICLE OPERATING COSTS

ECONOMIC VEHICLE OPERATING COSTS (RUNNING + FIXED COSTS) (1994 Prices)

Speed (km/h)	Road Condition							(Bar/Men)
	RC1	RC2	RC3	RC4	RC5	RC6	RC7	
MOTORCYCLE								
20	1.0275	1.0781	1.1247	1.1724	1.2483	1.2586	1.4237	
30	0.9700	1.0168	1.0635	1.1103	1.1804	1.1865	1.3481	
40	0.9225	0.9673	1.0126	1.0579	1.1259	1.1333	1.2840	
50	0.8846	0.9285	0.9724	1.0163	1.0821	1.0902	1.2386	
60	0.8579	0.9019	0.9458	0.9888				
70	0.8394	0.8842	0.9290	0.9738				
80	0.8237							
90	0.8261							
100	0.8467							
110								
120								
PASSENGER CAR								
20	4.6895	5.0011	5.3128	5.6242	6.0016	6.3360	7.7598	
30	4.2780	4.5742	4.8704	5.1665	5.6108	5.8495	7.2158	
40	3.9930	4.2787	4.5636	4.8485	5.2023	5.5023	6.8100	
50	3.7747	4.0492	4.3237	4.5982	5.0096	5.2315	6.4982	
60	3.5817	3.8630	4.1343	4.4056				
70	3.4425	3.7092	3.9758	4.2424				
80	3.3298	3.5907	3.8516	4.1126				
90	3.2441							
100	3.2487							
110	3.2832							
120	3.5253							
LIGHT BUS								
20	5.0759	5.2628	5.4497	5.6366	5.9180	6.1446	7.1807	
30	4.3216	4.6003	4.8870	5.1647	5.4312	5.6473	6.8125	
40	4.0855	4.2481	4.4137	4.5793	5.0321	5.2989	6.2246	
50	3.8811	4.0421	4.2031	4.3641	4.8277	5.0391	5.9288	
60	3.7231	3.8843	4.0454	4.2065				
70	3.5881	3.7574	3.9267	4.0759				
80	3.4947							
90	3.5303							
100	3.5952							
110	3.8671							
120								
MEDIUM TRUCK								
20	8.7191	9.0583	9.3935	9.7307	10.2385	10.4274	11.8209	
30	6.1273	6.4482	6.7691	7.0900	7.5713	7.7844	9.1131	
40	5.7030	6.0155	6.3279	6.6404	7.1090	7.3043	8.6320	
50	5.4432	5.7555	6.0678	6.3801	6.8485	7.0425	8.3674	
60	5.2422	5.5588	5.8755	6.1922				
70	5.0449	5.3658	5.6867	6.0076				
80	4.8476	5.1685	5.4894	5.8103				
90	4.6503	4.9712	5.2921	5.6130				
100	4.4530	4.7739	5.0948	5.4157				
110	4.2557	4.5766	4.8975	5.2184				
120	4.0584	4.3793	4.7002	5.0211				
HEAVY TRUCK								
20	10.5313	10.9313	11.3313	11.7313	12.1816	12.5100	14.5814	
30	9.4408	9.8655	10.2902	10.7149	11.4885	11.8143	13.8337	
40	8.6214	9.0662	9.5110	9.9558	10.9057	11.2354	13.2178	
50	8.0472	8.5066	8.9660	9.4254	10.3245	10.6475	12.6117	
60	7.5249	8.0733	8.6217	9.1700				
70	7.0513	7.6911	8.3309	8.9707				
80	6.6188	7.3586	8.0984	8.8382				
90	6.2223	7.0621	7.9019	8.7417				
100	5.8723	6.8121	7.7519	8.6917				
110	5.5757	6.6155	7.6553	8.5951				
120	5.3291	6.4693	7.5135	8.4697				

Note: Road Condition:
 RC1: Paved Road (Good)
 RC2: Paved Road (Good/Fair)
 RC3: Paved Road (Fair)
 RC4: Paved Road (Fair/Poor)
 RC5: Paved Road (Poor)
 RC6: Latent Road (Fair)
 RC7: Latent Road (Poor)

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(Lampang - Doi Saket Route)

F/C (1994 price)	No.	YEAR	INVESTMENT COSTS		LOAN REPAYMENT (Including Interest)		O & M COSTS	TOLL REVENUE	BALANCE (R-C)	TEMPORARY LOAN		Outstanding Loan Amount	YEAR
			INVEST (F)	INVEST (L)	REPAY (F)	REPAY (L)				LOAN	INTEREST		
120.2	1	1995	126.2	189.3	315.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1995
177.9	2	1996	196.1	294.1	490.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1996
57.7	3	1997	66.8	1,413.5	1,480.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1997
2254.9	4	1998	2,740.8	1,845.6	4,586.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1998
6053.8	5	1999	7,726.4	4,233.9	11,960.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1999
5320.7	6	2000	7,130.2	3,783.0	10,913.2	20.5	20.5	0.0	-20.5	20.5	1.0	21.6	2000
2750.6	7	2001	3,870.4	2,112.1	5,982.4	52.4	52.4	0.0	-52.4	74.0	3.7	77.7	2001
16735.8	8	2002				63.1	63.1	191.6	194.2	194.2	6.9	146.1	2002
	9	2003				509.0	509.0	201.2	251.8	138.2	30.2	146.1	2003
	10	2004				1,764.9	1,764.9	309.5	-458.4	603.5	115.0	683.7	2004
	11	2005				2,920.8	2,920.8	424.0	-2,718.6	5,134.0	256.7	2,415.4	2005
	12	2006				3,543.0	3,543.0	490.6	-3,253.3	8,676.0	433.8	5,390.7	2006
	13	2007				3,533.3	3,533.3	244.6	-3,220.6	12,330.4	616.5	9,106.8	2007
	14	2008				3,522.9	3,522.9	256.8	-3,155.9	16,102.8	805.1	12,947.0	2008
	15	2009				3,511.7	3,511.7	269.6	-3,091.1	19,999.1	1,000.0	16,908.0	2009
	16	2010				3,499.8	3,499.8	283.1	-2,907.4	23,906.4	1,195.3	20,986.0	2010
	17	2011				3,486.9	3,486.9	297.3	-2,679.2	27,780.9	1,399.0	25,101.7	2011
	18	2012				3,473.2	3,473.2	312.1	-2,450.8	31,620.8	1,581.0	29,170.0	2012
	19	2013				3,458.4	3,458.4	327.7	-2,222.0	35,423.8	1,771.2	33,201.8	2013
	20	2014				3,442.5	3,442.5	344.1	-1,993.1	39,188.1	1,959.4	37,195.0	2014
	21	2015				3,406.3	3,406.3	361.3	-1,418.2	42,565.7	2,128.3	41,147.5	2015
	22	2016				3,358.2	3,358.2	379.4	-1,121.7	45,815.7	2,280.8	44,684.0	2016
	23	2017				3,328.8	3,328.8	398.4	-844.8	48,951.3	2,447.6	48,106.5	2017
	24	2018				2,890.3	2,890.3	418.3	-159.7	51,568.6	2,577.9	51,398.9	2018
	25	2019				1,693.2	1,693.2	439.2	1,283.0	52,853.5	2,642.7	54,136.5	2019
	26	2020				594.4	594.4	461.2	3,219.6	52,276.6	2,613.8	55,496.2	2020
	27	2021				0.0	0.0	484.2	3,790.9	51,099.5	2,555.0	54,890.4	2021
	28	2022				0.0	0.0	508.4	4,275.1	49,887.9	2,494.4	53,654.5	2022
	29	2023				0.0	0.0	533.9	4,760.2	48,641.0	2,432.1	52,382.3	2023
	30	2024				0.0	0.0	560.6	5,245.3	47,358.5	2,367.9	51,073.1	2024
	31	2025				0.0	0.0	588.6	5,733.9	46,039.9	2,302.0	49,726.4	2025
	32	2026				0.0	0.0	618.0	6,228.9	44,694.8	2,234.2	48,341.9	2026
	33	2027				0.0	0.0	648.9	6,730.8	43,292.9	2,164.6	46,919.1	2027
	34	2028				0.0	0.0	681.4	7,239.2	41,863.8	2,093.2	45,457.5	2028
	35	2029				0.0	0.0	715.4	7,754.6	40,397.3	2,019.9	43,957.0	2029
	36	2030				0.0	0.0	751.2	8,275.8	38,893.3	1,944.7	42,417.2	2030
	37	2031				0.0	0.0	788.8	8,804.6	37,351.6	1,867.6	40,837.9	2031
		TOTAL	21,857.0	13,871.5	35,728.5	52,073.5	12,731.4	75,927.3	11,122.4	1,006,830.9	50,341.5	1,057,172.5	

Note: LOAN REPAY (F) : IBRD
LOAN REPAY (L) : Government Funds
Toll Rate = Periodically Revised
Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(Lampang - Doi Saket Route)

F/C (1964 prices)	No.	YEAR	INVESTMENT COSTS		LOAN REPAYMENT (including interest)		O & M COSTS	TOLL REVENUE	BALANCE (R-C)	TEMPORARY LOAN		Outstanding Loan Amount	YEAR	
			INVEST (F)	INVEST (L)	TOTAL	REPAY (F)				REPAY (L)	LOAN			INTEREST
120.2	1	1995	126.2	189.3	315.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1995	
177.9	2	1996	196.1	294.1	490.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1996	
57.7	3	1997	66.8	1,413.5	1,480.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1997	
2254.9	4	1998	2,740.8	1,845.6	4,586.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1998	
6053.8	5	1999	7,726.4	4,233.9	11,960.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1999	
5320.7	6	2000	7,130.2	3,783.0	10,913.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000	
2750.6	7	2001	3,870.4	2,112.1	5,982.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2001	
TOTAL	8	2002				11.0	191.6	194.2	194.2	-8.4	8.4	0.4	8.8	2002
16735.8	9	2003				28.0	201.2	251.8	251.8	22.6	-13.8	-0.7	-14.5	2003
	10	2004				33.8	211.3	309.5	309.5	64.4	-78.9	-3.9	-82.8	2004
	11	2005				271.7	221.8	424.0	424.0	-69.6	-13.3	-0.7	-14.0	2005
	12	2006				942.5	232.9	490.6	490.6	-684.8	670.9	33.5	704.4	2006
	13	2007				1,561.6	244.6	557.2	557.2	-1,248.9	1,953.3	97.7	2,051.0	2007
	14	2008				1,897.6	256.8	623.8	623.8	-1,530.6	3,581.6	179.1	3,760.7	2008
	15	2009				1,897.6	269.6	690.3	690.3	-1,476.9	5,237.6	261.9	5,499.4	2009
	16	2010				1,897.6	283.1	875.5	875.5	-1,305.2	6,804.6	340.2	7,144.9	2010
	17	2011				1,897.6	297.3	1,105.0	1,105.0	-1,069.9	8,234.7	411.7	8,646.5	2011
	18	2012				1,897.6	312.1	1,334.5	1,334.5	-875.2	9,521.7	476.1	9,997.8	2012
	19	2013				1,897.6	327.7	1,564.1	1,564.1	-661.2	10,659.0	532.9	11,191.9	2013
	20	2014				1,897.6	344.1	1,793.6	1,793.6	-448.1	11,640.0	582.0	12,222.0	2014
	21	2015				1,897.6	361.3	2,349.4	2,349.4	90.5	12,131.6	606.6	12,738.1	2015
	22	2016				1,897.6	379.4	2,615.9	2,615.9	338.9	12,399.2	620.0	13,019.2	2016
	23	2017				1,897.6	398.4	2,882.4	2,882.4	586.4	12,432.7	621.6	13,054.4	2017
	24	2018				1,897.6	418.3	3,148.9	3,148.9	833.0	12,221.3	611.1	12,832.4	2018
	25	2019				1,897.6	439.2	3,415.4	3,415.4	1,078.6	11,753.8	587.7	12,341.5	2019
	26	2020				1,886.6	461.2	4,275.1	4,275.1	1,927.3	10,414.2	520.7	10,934.9	2020
	27	2021				1,869.6	484.2	4,275.1	4,275.1	1,921.3	9,013.6	450.7	9,464.3	2021
	28	2022				1,863.8	508.4	4,275.1	4,275.1	1,902.9	7,561.4	378.1	7,939.5	2022
	29	2023				1,625.8	533.9	4,275.1	4,275.1	2,115.4	5,824.1	291.2	6,115.3	2023
	30	2024				955.1	560.6	4,275.1	4,275.1	2,759.5	3,355.8	167.8	3,523.6	2024
	31	2025				336.0	588.6	4,275.1	4,275.1	3,350.5	173.1	8.7	181.7	2025
	32	2026				0.0	618.0	4,275.1	4,275.1	3,657.1	-3,475.3	-173.8	-3,649.1	2026
	33	2027				0.0	648.9	4,275.1	4,275.1	3,626.2	-7,275.3	-963.8	-7,639.1	2027
	34	2028				0.0	681.4	4,275.1	4,275.1	3,593.7	-11,232.8	-561.6	-11,794.4	2028
	35	2029				0.0	715.4	4,275.1	4,275.1	3,559.7	-15,354.1	-767.7	-16,121.8	2029
	36	2030				0.0	751.2	4,275.1	4,275.1	3,523.9	-19,645.7	-962.3	-20,628.0	2030
	37	2031				0.0	788.8	4,275.1	4,275.1	3,486.3	-24,114.3	-1,205.7	-25,320.1	2031
	TOTAL		21,857.0	13,871.5	35,728.5	34,156.4	12,731.4	75,927.3	29,039.5	74,368.9	3,719.4	78,108.4		

Note : LOAN REPAY (F) : OECF
LOAN REPAY (L) : Government Funds
Toll Rate = Periodically Revised
Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(Lampang - Doi Saket Route)

P/C (1994 prices)	No.	YEAR	INVESTMENT COSTS			LOAN REPAYMENT (including interest)			O & M COSTS	TOLL REVENUE	BALANCE (R-C)	TEMPORARY LOAN		Outstanding Loan Amount	YEAR
			INVEST (F)	INVEST (L)	TOTAL	REPAY (F)	REPAY (L)	TOTAL				LOAN	INTEREST		
120.2	1	1995	126.2	180.3	315.5	32.8	32.8	32.8	0.0	-32.8	32.8	1.6	34.5	1995	
177.9	2	1996	196.1	294.1	490.3	83.8	83.8	83.8	0.0	-83.8	118.3	5.9	124.2	1996	
57.7	3	1997	66.8	1,413.5	1,480.3	328.9	328.9	328.9	0.0	-328.9	453.1	22.7	475.7	1997	
2254.9	4	1998	2,740.8	1,845.6	4,586.5	648.9	648.9	648.9	0.0	-648.9	1,124.6	56.2	1,180.8	1998	
6053.8	5	1999	7,726.4	4,233.9	11,960.3	1,382.9	1,382.9	1,382.9	0.0	-1,382.9	2,563.8	128.2	2,692.0	1999	
5320.7	6	2000	7,130.2	3,783.0	10,913.2	2,038.8	2,038.8	2,038.8	0.0	-2,038.8	4,751.3	237.6	4,989.9	2000	
2750.6	7	2001	3,870.4	2,112.1	5,982.4	2,405.0	2,405.0	2,405.0	0.0	-2,405.0	7,446.3	372.3	7,818.6	2001	
	8	2002				63.1	2,405.0	2,468.1	194.2	-2,465.6	10,284.2	514.2	10,798.4	2002	
	9	2003				509.0	2,914.0	2,914.0	251.8	-2,863.4	13,661.8	683.1	14,344.8	2003	
	10	2004				1,764.9	2,405.0	4,169.9	309.5	-4,071.7	18,416.6	920.8	19,337.4	2004	
	11	2005				2,920.8	2,372.2	5,292.9	424.0	-5,090.8	24,428.2	1,221.4	25,649.6	2005	
	12	2006				3,543.0	2,321.2	5,864.1	490.6	-5,606.5	31,256.0	1,562.8	32,818.8	2006	
	13	2007				3,533.3	2,076.1	5,609.4	623.8	-5,296.8	38,115.6	1,905.8	40,021.4	2007	
	14	2008				3,522.9	1,756.1	5,279.0	623.8	-4,912.0	44,933.4	2,246.7	47,180.0	2008	
	15	2009				3,511.7	1,022.1	4,533.8	680.3	-4,113.1	51,293.2	2,564.7	53,857.8	2009	
	16	2010				3,499.8	366.2	3,866.0	875.5	-3,273.6	57,131.4	2,856.6	59,988.0	2010	
	17	2011				3,486.9	297.3	3,486.9	1,105.0	-2,679.2	62,667.2	3,133.4	65,800.6	2011	
	18	2012				3,473.2	3,473.2	3,473.2	1,334.5	-2,450.8	68,251.3	3,412.6	71,663.9	2012	
	19	2013				3,458.4	3,458.4	3,458.4	1,564.1	-2,222.0	73,886.9	3,694.3	77,580.2	2013	
	20	2014				3,442.5	3,442.5	3,442.5	1,793.6	-1,993.1	79,573.3	3,978.7	83,552.0	2014	
	21	2015				3,406.3	3,406.3	3,406.3	2,349.4	-1,418.2	84,970.2	4,248.5	89,218.7	2015	
	22	2016				3,358.2	3,358.2	3,358.2	2,615.9	-1,121.7	90,340.4	4,517.0	94,857.4	2016	
	23	2017				3,328.8	3,328.8	3,328.8	2,882.4	-844.8	95,702.2	4,785.1	100,487.4	2017	
	24	2018				2,890.3	2,890.3	2,890.3	3,148.9	-159.7	100,647.1	5,032.4	105,679.4	2018	
	25	2019				1,693.2	1,693.2	1,693.2	3,415.4	1,283.0	104,396.4	5,219.8	109,616.2	2019	
	26	2020				594.4	594.4	594.4	4,275.1	3,219.6	106,396.6	5,319.8	111,716.5	2020	
	27	2021				0.0	0.0	0.0	4,275.1	3,790.9	107,925.6	5,396.3	113,321.9	2021	
	28	2022				0.0	0.0	0.0	4,275.1	3,766.7	109,555.2	5,477.8	115,033.0	2022	
	29	2023				0.0	0.0	0.0	4,275.1	3,741.2	111,291.7	5,564.6	116,856.3	2023	
	30	2024				0.0	0.0	0.0	4,275.1	3,714.5	113,141.8	5,657.1	118,798.9	2024	
	31	2025				0.0	0.0	0.0	4,275.1	3,686.5	115,112.4	5,755.6	120,868.0	2025	
	32	2026				0.0	0.0	0.0	4,275.1	3,657.1	117,210.9	5,860.5	123,071.4	2026	
	33	2027				0.0	0.0	0.0	4,275.1	3,626.2	119,445.2	5,972.3	125,417.5	2027	
	34	2028				0.0	0.0	0.0	4,275.1	3,593.7	121,823.8	6,091.2	127,915.0	2028	
	35	2029				0.0	0.0	0.0	4,275.1	3,559.7	124,355.3	6,217.8	130,573.0	2029	
	36	2030				0.0	0.0	0.0	4,275.1	3,523.9	127,049.1	6,352.5	133,401.6	2030	
	37	2031				0.0	0.0	0.0	4,275.1	3,486.3	129,915.3	6,495.8	136,411.0	2031	
		TOTAL	21,857.0	13,871.5	35,728.5	52,073.5	24,050.0	76,123.5	75,927.3	-12,927.7	2,469,667.4	123,483.4	2,593,150.7		

Note: LOAN REPAY (F) ; IBRD
LOAN REPAY (L) ; Long Term Local Loans
Toll Rate = Periodically Revised
Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(Lampang - Doi Saket Route)

F/C (1994 prices)	No.	YEAR	INVESTMENT COSTS		LOAN REPAYMENT (including Interest)		O & M COSTS	TOLL REVENUE	BALANCE (R-C)	TEMPORARY LOAN		Outstanding Loan Amount	YEAR
			INVEST (F)	INVEST (L)	REPAY (F)	REPAY (L)				LOAN	INTEREST		
120.2	1	1995	126.2	188.3	315.5	32.8	32.8	0.0	-32.8	32.8	1.6	34.5	1995
177.9	2	1996	196.1	294.1	490.3	83.8	83.8	0.0	-83.8	118.3	5.9	124.2	1996
57.7	3	1997	66.8	1,413.5	1,480.3	328.9	328.9	0.0	-328.9	453.1	22.7	475.7	1997
2254.9	4	1998	2,740.8	1,845.6	4,586.5	648.9	648.9	0.0	-648.9	1,124.6	56.2	1,180.8	1998
6053.8	5	1998	7,726.4	4,233.9	11,960.3	1,382.9	1,382.9	0.0	-1,382.9	2,563.8	128.2	2,692.0	1999
5320.7	6	2000	7,130.2	3,783.0	10,913.2	2,038.8	2,038.8	0.0	-2,038.8	4,730.8	236.5	4,967.3	2000
2750.6	7	2001	3,870.4	2,112.1	5,982.4	2,405.0	2,405.0	0.0	-2,405.0	7,372.3	368.6	7,740.9	2001
	8	2002				2,416.0	2,416.0	194.2	-2,413.4	10,154.3	507.7	10,662.0	2002
	9	2003				2,433.0	2,433.0	251.8	-2,382.4	13,044.4	652.2	13,696.7	2003
16735.8	10	2004				2,438.8	2,438.8	309.5	-2,340.6	16,037.2	801.9	16,839.1	2004
	11	2005				2,643.9	2,643.9	424.0	-2,441.7	19,280.8	964.0	20,244.9	2005
	12	2006				3,263.7	3,263.7	490.6	-3,006.0	23,250.9	1,162.5	24,413.4	2006
	13	2007				3,637.7	3,637.7	557.2	-3,325.0	27,738.5	1,386.9	29,125.4	2007
	14	2008				3,653.7	3,653.7	623.8	-3,286.7	32,412.1	1,620.6	34,032.7	2008
	15	2008				2,919.6	2,919.6	690.3	-2,499.0	36,531.7	1,826.6	38,358.3	2009
	16	2010				2,263.8	2,263.8	875.5	-1,671.4	40,029.7	2,001.5	42,031.1	2010
	17	2011				1,897.6	1,897.6	297.3	-1,089.9	43,121.0	2,156.0	45,277.0	2011
	18	2012				1,897.6	1,897.6	312.1	-875.2	46,152.3	2,307.6	48,459.9	2012
	19	2013				1,897.6	1,897.6	327.7	-661.2	49,121.1	2,456.1	51,577.1	2013
	20	2014				1,897.6	1,897.6	344.1	-448.1	52,025.3	2,601.3	54,626.5	2014
	21	2015				1,897.6	1,897.6	361.3	90.5	54,536.0	2,726.8	57,262.8	2015
	22	2016				1,897.6	1,897.6	379.4	338.9	56,923.9	2,846.2	59,770.1	2016
	23	2017				1,897.6	1,897.6	398.4	586.4	59,183.7	2,959.2	62,142.9	2017
	24	2018				1,897.6	1,897.6	418.3	833.0	61,309.8	3,065.5	64,375.3	2018
	25	2019				1,897.6	1,897.6	439.2	1,078.6	63,296.7	3,164.8	66,461.5	2019
	26	2020				1,896.6	1,896.6	461.2	1,927.3	64,534.2	3,226.7	67,760.9	2020
	27	2021				1,869.6	1,869.6	484.2	1,921.3	65,839.7	3,292.0	69,131.8	2021
	28	2022				1,863.8	1,863.8	508.4	1,902.9	67,228.8	3,361.4	70,590.2	2022
	29	2023				1,625.8	1,625.8	533.9	2,115.4	68,474.8	3,423.7	71,898.6	2023
	30	2024				955.1	955.1	560.6	2,759.5	69,139.1	3,457.0	72,596.0	2024
	31	2025				336.0	336.0	588.6	3,950.5	69,245.5	3,462.3	72,707.8	2025
	32	2026				0.0	0.0	618.0	3,657.1	69,050.7	3,452.5	72,503.2	2026
	33	2027				0.0	0.0	648.9	3,626.2	68,877.1	3,443.9	72,320.9	2027
	34	2028				0.0	0.0	681.4	3,593.7	68,727.2	3,436.4	72,163.5	2028
	35	2029				0.0	0.0	715.4	3,559.7	68,603.9	3,430.2	72,034.0	2029
	36	2030				0.0	0.0	751.2	3,523.9	68,510.1	3,425.5	71,935.7	2030
	37	2031				0.0	0.0	788.8	3,486.3	68,449.3	3,422.5	71,871.8	2031
	TOTAL		21,857.0	13,871.5	35,728.5	58,206.4	12,731.4	75,927.3	4,989.5	1,537,225.4	76,961.3	1,614,066.6	

Note : LOAN REPAY (F) ; OECF
LOAN REPAY (L) ; Long Term Local Loans
Toll Rate = Periodically Revised
Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(Ban Pong - Cha Am Route)

F/C (1994 prices)	No.	YEAR	INVESTMENT COSTS		LOAN REPAYMENT (Including Interest)		O & M COSTS	TOLL REVENUE	BALANCE (R - C)	TEMPORARY LOAN		Outstanding Loan Amount	YEAR
			INVEST (F)	INVEST (L)	REPAY (F)	REPAY (L)				LOAN	INTEREST		
86.0	1	1995	92.4	138.6	231.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1995
128.0	2	1996	141.1	211.8	352.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1996
40.0	3	1997	46.3	1,079.9	1,126.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1997
4,898.9	4	1998	5,954.6	7,422.9	13,377.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1998
4,625.8	5	1999	5,903.8	5,782.5	11,686.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1999
3,142.8	6	2000	4,211.7	3,921.1	8,132.8	15.0	15.0	-15.0	1,245.7	15.0	0.0	0.8	2000
TOTAL													
12,923.5													
	7	2001				38.0	186.4	1,470.1	1,245.7	-1,229.9	-61.5	-1,291.4	2001
	8	2002				45.4	195.8	1,710.0	1,488.8	-2,760.2	-138.0	-2,898.3	2002
	9	2003				1,014.2	205.6	1,949.8	730.0	-3,628.3	-181.4	-3,809.7	2003
	10	2004				1,972.4	215.8	2,189.7	1.5	-3,811.1	-190.6	-4,001.7	2004
	11	2005				2,652.7	226.6	2,806.5	-72.8	-3,928.9	-196.4	-4,125.3	2005
	12	2006				2,645.7	238.0	3,063.6	200.0	-4,325.3	-216.3	-4,541.6	2006
	13	2007				2,638.1	249.8	3,360.6	472.7	-5,014.3	-250.7	-5,265.0	2007
	14	2008				2,629.9	262.3	3,637.7	745.4	-6,010.4	-300.5	-6,310.9	2008
	15	2009				2,621.2	275.5	3,941.8	1,045.1	-7,356.0	-367.8	-7,723.9	2009
	16	2010				2,611.8	289.2	4,648.8	1,947.7	-9,671.8	-483.6	-10,155.2	2010
	17	2011				2,601.8	303.7	5,242.3	2,336.8	-12,482.0	-624.6	-13,116.6	2011
	18	2012				2,591.0	318.9	5,635.8	2,725.9	-15,842.5	-792.1	-16,634.6	2012
	19	2013				2,579.4	334.8	6,029.3	3,115.1	-19,749.7	-987.5	-20,737.2	2013
	20	2014				2,567.0	351.6	6,422.7	3,504.1	-24,241.3	-1,212.1	-25,453.4	2014
	21	2015				2,539.6	369.1	7,915.6	5,006.9	-30,460.2	-1,523.0	-31,983.2	2015
	22	2016				2,503.9	387.6	8,372.6	5,481.1	-37,464.4	-1,873.2	-39,337.6	2016
	23	2017				2,481.8	407.0	8,829.5	5,940.8	-45,278.3	-2,263.9	-47,542.3	2017
	24	2018				1,557.6	427.3	9,296.5	7,301.6	-54,843.9	-2,742.2	-57,586.1	2018
	25	2019				646.8	448.7	9,743.5	8,648.0	-66,294.1	-3,311.7	-69,545.8	2019
	26	2020					471.1	11,843.8	11,372.7	-80,918.5	-4,045.9	-84,964.4	2020
	27	2021					494.7	11,843.8	11,349.1	-96,313.5	-4,815.7	-101,129.2	2021
	28	2022					519.4	11,843.8	11,324.4	-112,453.6	-5,622.7	-118,076.3	2022
	29	2023					545.4	11,843.8	11,298.4	-129,374.7	-6,468.7	-135,843.4	2023
	30	2024					572.7	11,843.8	11,271.1	-147,114.5	-7,355.7	-154,470.3	2024
	31	2025					601.3	11,843.8	11,242.5	-165,712.8	-8,285.6	-173,998.4	2025
	32	2026					631.4	11,843.8	11,212.4	-185,210.9	-9,260.5	-194,471.4	2026
	33	2027					662.9	11,843.8	11,180.9	-205,652.3	-10,282.6	-215,934.9	2027
	34	2028					696.1	11,843.8	11,147.7	-227,082.6	-11,354.1	-238,436.8	2028
	35	2029					730.9	11,843.8	11,112.9	-249,549.7	-12,477.5	-262,027.2	2029
	36	2030					767.4	11,843.8	11,076.4	-273,103.6	-13,655.2	-286,758.7	2030
	TOTAL		16,349.9	19,566.8	34,916.8	38,953.2	12,386.9	226,758.2	175,418.0	-2,226,814.0	-111,340.7	-2,338,154.7	

Note: LOAN REPAY (F) ; IBRD
LOAN REPAY (L) ; Government Funds
Toll Rate = Periodically Revised
Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(Ban Pong - Cha Am Route)

F/C (1994 prices)	No.	YEAR	INVESTMENT COSTS		LOAN REPAYMENT (including Interest)		O & M COSTS	TOLL REVENUE	BALANCE (R - C)	TEMPORARY LOAN		Outstanding Loan Amount	YEAR
			INVEST (F)	INVEST (L)	REPAY (F)	REPAY (L)				LOAN	INTEREST		
88.0	1	1995	92.4	138.6	231.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1995
128.0	2	1996	141.1	211.8	352.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1996
40.0	3	1997	46.3	1,079.9	1,126.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1997
4,888.9	4	1998	5,954.6	7,422.9	13,377.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1998
4,625.8	5	1998	5,903.8	5,792.5	11,696.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1998
3,142.8	6	2000	4,211.7	3,921.1	8,132.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000
TOTAL	7	2001				0.0	186.4	1,470.1	1,283.7	-1,283.7	-64.2	-1,347.8	2001
12,923.5	8	2002				8.0	195.8	1,710.0	1,506.2	-2,854.1	-142.7	-2,996.8	2002
	9	2003				20.3	205.6	1,949.8	1,724.0	-4,720.7	-236.0	-4,956.8	2003
	10	2004				24.3	215.8	2,189.7	1,948.6	-6,906.3	-345.3	-7,251.7	2004
	11	2005				541.3	226.6	2,806.5	2,038.6	-9,290.3	-484.5	-9,754.8	2005
	12	2006				1,053.8	238.0	3,063.6	1,791.8	-11,546.6	-577.3	-12,124.0	2006
	13	2007				1,419.5	249.8	3,360.6	1,691.3	-13,815.2	-690.8	-14,506.0	2007
	14	2008				1,419.5	262.3	3,637.7	1,955.9	-16,461.9	-823.1	-17,285.0	2008
	15	2008				1,419.5	275.5	3,941.8	2,246.9	-19,531.9	-976.6	-20,508.4	2008
	16	2010				1,419.5	289.2	4,648.8	3,140.1	-23,646.5	-1,182.4	-24,831.0	2010
	17	2011				1,419.5	303.7	5,242.3	3,519.1	-28,350.1	-1,417.5	-29,767.6	2011
	18	2012				1,419.5	318.9	5,635.8	3,897.5	-33,665.1	-1,683.3	-35,348.3	2012
	19	2013				1,419.5	334.8	6,029.3	4,275.0	-39,623.3	-1,981.2	-41,604.5	2013
	20	2014				1,419.5	351.6	6,422.7	4,651.7	-46,256.2	-2,312.8	-48,569.0	2014
	21	2015				1,419.5	369.1	7,915.6	6,127.0	-54,886.0	-2,734.8	-57,620.8	2015
	22	2016				1,419.5	387.6	8,372.6	6,565.5	-63,986.3	-3,199.8	-67,186.1	2016
	23	2017				1,419.5	407.0	8,829.5	7,003.1	-74,199.2	-3,710.0	-77,909.1	2017
	24	2018				1,419.5	427.3	9,286.5	7,439.7	-85,348.8	-4,267.4	-89,616.3	2018
	25	2019				1,419.5	448.7	9,743.5	7,875.3	-97,491.6	-4,874.6	-102,366.2	2019
	26	2020				1,411.4	471.1	11,843.8	11,372.7	-113,738.9	-5,686.9	-119,425.8	2020
	27	2021				1,389.2	494.7	11,843.8	11,349.1	-130,774.9	-6,538.7	-137,313.7	2021
	28	2022				1,385.2	519.4	11,843.8	11,324.4	-148,638.1	-7,431.9	-156,070.0	2022
	29	2023				878.2	545.4	11,843.8	11,288.4	-167,368.4	-8,368.4	-175,736.8	2023
	30	2024				365.6	572.7	11,843.8	11,271.1	-187,007.9	-9,350.4	-196,358.3	2024
	31	2025					601.3	11,843.8	11,242.5	-207,600.8	-10,380.0	-217,980.9	2025
	32	2026					631.4	11,843.8	11,212.4	-228,193.3	-11,459.7	-240,653.0	2026
	33	2027					662.9	11,843.8	11,180.9	-251,833.9	-12,591.7	-264,425.6	2027
	34	2028					696.1	11,843.8	11,147.7	-275,573.3	-13,778.7	-289,352.0	2028
	35	2029					730.9	11,843.8	11,112.9	-300,464.9	-15,023.2	-315,488.1	2029
	36	2030					767.4	11,843.8	11,076.4	-326,584.5	-16,328.2	-342,912.8	2030
	TOTAL		16,349.9	18,566.8	34,916.8	25,550.4	12,386.9	226,758.2	194,270.5	-2,972,444.9	-148,622.2	-3,121,067.1	

Note: LOAN REPAY (F) : OECF
LOAN REPAY (L) : Government Funds
Toll Rate = Periodically Revised
Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(Ban Pong - Cha Am Route)

F/C (1994 prices)	No.	YEAR	INVESTMENT COSTS		LOAN REPAYMENT (Including Interest)		O & M COSTS	TOLL REVENUE	BALANCE (R - C)	TEMPORARY LOAN		Outstanding Loan Amount	YEAR
			INVEST (F)	INVEST (L)	TOTAL	REPAY (F)				REPAY (L)	LOAN		
88.0	1	1995	82.4	138.6	231.0	24.0	60.7	24.0	-24.0	24.0	1.2	25.2	1995
128.0	2	1996	141.1	211.8	352.9	60.7	248.0	60.7	-60.7	86.0	4.3	90.3	1996
40.0	3	1997	46.3	1,079.9	1,126.3	248.0	248.0	248.0	-248.0	338.3	16.9	355.2	1997
4,888.9	4	1998	5,954.6	7,422.9	13,377.5	1,534.9	1,534.9	1,534.9	-1,534.9	1,890.1	94.5	1,984.8	1998
4,625.8	5	1999	5,903.8	5,792.5	11,696.4	2,539.2	2,539.2	2,539.2	-2,539.2	4,523.9	226.2	4,750.1	1999
3,142.8	6	2000	4,211.7	3,921.1	8,132.8	15.0	3,219.1	3,234.1	-3,234.1	7,984.2	398.2	8,383.4	2000
TOTAL	7	2001			8,132.8	38.0	3,219.1	3,257.0	-1,973.4	10,356.7	517.8	10,874.6	2001
	8	2002				45.4	3,219.1	3,264.5	-1,750.2	12,624.8	631.2	13,256.0	2002
	9	2003				1,014.2	3,219.1	4,233.3	-2,486.0	15,745.1	787.3	16,532.4	2003
	10	2004				1,972.4	3,219.1	5,191.5	-3,217.6	19,750.0	987.5	20,737.5	2004
	11	2005				2,652.7	3,195.0	5,847.8	-3,257.9	24,005.3	1,200.3	25,205.6	2005
	12	2006				2,845.7	3,158.3	5,804.0	-2,958.3	28,163.9	1,408.2	29,572.1	2006
	13	2007				2,638.1	2,971.1	5,609.1	-2,498.4	32,070.5	1,603.5	33,674.0	2007
	14	2008				2,629.9	1,684.1	4,314.1	-938.7	34,612.7	1,730.6	36,343.4	2008
	15	2009				2,621.2	679.8	3,301.0	365.3	35,978.1	1,798.9	37,777.0	2009
	16	2010				2,611.8		2,611.8	1,947.7	35,829.2	1,791.5	37,620.7	2010
	17	2011				2,601.8		2,601.8	5,242.3	35,283.9	1,764.2	37,048.1	2011
	18	2012				2,591.0		2,591.0	5,635.8	34,322.1	1,716.1	36,038.3	2012
	19	2013				2,579.4		2,579.4	6,029.3	32,923.2	1,646.2	34,569.4	2013
	20	2014				2,567.0		2,567.0	6,422.7	31,065.2	1,553.3	32,618.5	2014
	21	2015				2,539.6		2,539.6	7,915.6	27,611.6	1,380.6	28,992.2	2015
	22	2016				2,503.9		2,503.9	8,372.6	23,511.1	1,175.6	24,686.7	2016
	23	2017				2,481.8		2,481.8	8,829.5	18,745.9	937.3	19,683.2	2017
	24	2018				1,557.6		1,557.6	9,286.5	12,381.6	619.1	13,000.7	2018
	25	2019				646.8		646.8	9,743.5	4,352.6	217.6	4,570.2	2019
	26	2020							11,372.7	-6,802.4	-340.1	-7,142.6	2020
	27	2021							11,843.8	-18,491.7	-924.6	-19,416.3	2021
	28	2022							11,843.8	-30,740.6	-1,537.0	-32,277.7	2022
	29	2023							11,843.8	-43,576.1	-2,178.8	-45,754.9	2023
	30	2024							11,843.8	-57,026.0	-2,851.3	-59,877.3	2024
	31	2025							11,843.8	-71,119.8	-3,556.0	-74,675.8	2025
	32	2026							11,843.8	-85,888.3	-4,294.4	-90,182.7	2026
	33	2027							11,843.8	-101,363.6	-5,068.2	-106,431.7	2027
	34	2028							11,843.8	-117,579.5	-5,879.0	-123,458.4	2028
	35	2029							11,843.8	-134,571.4	-6,728.6	-141,299.9	2029
	36	2030							11,843.8	-152,376.3	-7,618.8	-159,995.1	2030
	TOTAL		16,349.9	18,566.8	34,916.8	38,953.2	32,190.7	71,143.9	143,227.4	-335,355.5	-16,767.8	-352,123.3	

Note : LOAN REPAY (F) : IBRD
LOAN REPAY (L) : Long Term Local Loans
Toll Rate = Periodically Revised
Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(Ban Pong - Cha Am Route)

F/C (1994 prices)	No.	YEAR	INVESTMENT COSTS			LOAN REPAYMENT (Including Interest)			O & M COSTS	TOLL REVENUE	BALANCE (R.-C)	TEMPORARY LOAN		YEAR
			INVEST (F)	INVEST (L)	TOTAL	REPAY (F)	REPAY (L)	TOTAL REPAY				LOAN	INTEREST	
88.0	1	1995	92.4	138.6	231.0	24.0	24.0	60.7	24.0	-24.0	24.0	1.2	1995	
128.0	2	1996	141.1	211.8	352.9	60.7	60.7	60.7	60.7	-60.7	86.0	4.3	1996	
40.0	3	1997	46.3	1,079.9	1,126.3	248.0	248.0	248.0	248.0	-248.0	338.3	16.9	1997	
4,888.9	4	1998	5,954.6	7,422.9	13,377.5	1,534.9	1,534.9	1,534.9	1,534.9	-1,534.9	1,880.1	94.5	1998	
4,625.8	5	1999	5,903.8	5,792.5	11,696.4	2,539.2	2,539.2	2,539.2	2,539.2	-2,539.2	4,523.9	226.2	1999	
3,142.8	6	2000	4,211.7	3,921.1	8,132.8	3,219.1	3,219.1	3,219.1	3,219.1	-3,219.1	7,969.1	398.5	2000	
TOTAL	7	2001				3,219.1	3,219.1	3,219.1	186.4	-1,935.4	10,303.0	515.1	2001	
12,923.5	8	2002				3,219.1	3,219.1	3,219.1	195.8	-1,712.9	12,531.0	626.5	2002	
	9	2003				3,219.1	3,219.1	3,219.1	205.6	-1,495.1	14,652.6	732.6	2003	
	10	2004				3,219.1	3,219.1	3,219.1	215.8	-1,269.5	16,654.8	832.7	2004	
	11	2005				3,195.0	3,195.0	3,195.0	226.8	-1,156.4	18,643.9	932.2	2005	
	12	2006				1,053.8	3,158.3	4,212.1	238.0	-1,366.5	20,942.6	1,047.1	2006	
	13	2007				1,419.5	2,971.1	4,390.5	249.8	-1,278.8	23,269.5	1,163.5	2007	
	14	2008				1,419.5	1,684.1	3,103.6	262.3	271.8	24,161.2	1,208.1	2008	
	15	2009				1,419.5	679.8	2,099.3	275.5	1,567.0	23,802.3	1,190.1	2009	
	16	2010				1,419.5		1,419.5	289.2	3,140.1	21,852.3	1,092.6	2010	
	17	2011				1,419.5		1,419.5	303.7	3,519.1	19,425.8	971.3	2011	
	18	2012				1,419.5		1,419.5	318.9	3,897.5	16,499.6	825.0	2012	
	19	2013				1,419.5		1,419.5	334.8	4,275.0	13,049.6	652.5	2013	
	20	2014				1,419.5		1,419.5	351.6	4,651.7	9,050.4	452.5	2014	
	21	2015				1,419.5		1,419.5	369.1	6,127.0	3,375.9	168.8	2015	
	22	2016				1,419.5		1,419.5	387.6	8,372.6	-3,020.8	-151.0	2016	
	23	2017				1,419.5		1,419.5	407.0	7,003.1	-10,174.9	-508.7	2017	
	24	2018				1,419.5		1,419.5	427.3	9,286.5	-18,123.4	-808.2	2018	
	25	2019				1,419.5		1,419.5	448.7	7,875.3	-26,904.9	-1,345.2	2019	
	26	2020				1,411.4		1,411.4	471.1	11,843.8	-39,622.8	-1,981.1	2020	
	27	2021				1,395.2		1,395.2	494.7	11,843.8	-52,953.1	-2,647.7	2021	
	28	2022				1,395.2		1,395.2	519.4	11,843.8	-66,925.1	-3,346.3	2022	
	29	2023				878.2		878.2	545.4	11,843.8	-81,569.8	-4,078.5	2023	
	30	2024				365.6		365.6	572.7	11,843.8	-96,919.4	-4,846.0	2024	
	31	2025							601.3	11,843.8	-113,007.9	-5,650.4	2025	
	32	2026							631.4	11,843.8	-129,670.7	-6,493.5	2026	
	33	2027							662.9	11,843.8	-147,545.2	-7,377.3	2027	
	34	2028							696.1	11,843.8	-166,070.1	-8,303.5	2028	
	35	2029							730.9	11,843.8	-185,486.6	-9,274.3	2029	
	36	2030							767.4	11,843.8	-205,937.3	-10,291.9	2030	
	TOTAL		16,349.9	18,566.8	34,916.8	32,190.7	52,291.5	12,366.9	226,758.2	162,079.8	-1,080,966.4	-54,049.3	-1,135,035.7	

Note: LOAN REPAY (F): OECF
LOAN REPAY (L): Long Term Local Loans
Toll Rate = Periodically Revised
Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(L/D + B/C ROUTE)

F/C(L/D) (1984 prices)	F/C(B/C) (1984 prices)	No.	YEAR	INVESTMENT COSTS		LOAN REPAYMENT (Including Interest)		O & M COSTS	TOLL REVENUE	BALANCE (R - C)	TEMPORARY LOAN		Outstanding Loan Amount	YEAR
				INVEST (F)	INVEST (L)	TOTAL	REPAY (F)				REPAY (L)	LOAN		
120.2	86.0	1	1995	218.6	327.9	546.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1995
177.9	126.0	2	1996	337.3	505.9	843.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1996
57.7	40.0	3	1997	113.1	2,493.4	2,606.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1997
2,254.9	4,898.9	4	1998	8,685.5	9,268.5	17,954.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1998
6,053.8	4,625.8	5	1999	13,630.2	10,026.5	23,656.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1999
5,320.7	3,142.8	6	2000	11,341.9	7,704.1	19,046.0	35.6	0.0	0.0	-35.6	35.6	1.8	37.4	2000
2,750.6		7	2001	3,870.4	2,112.1	5,982.4	90.4	0.0	186.4	1,470.1	-1,155.9	-57.8	-1,213.7	2001
	12,923.5	8	2002				108.5	0.0	387.4	1,904.2	-2,622.0	-131.1	-2,753.1	2002
16,735.8		9	2003				1,523.2	0.0	406.8	2,201.6	-3,024.8	-151.2	-3,176.0	2003
		10	2004				3,737.4	0.0	427.1	2,499.2	-1,510.7	-75.5	-1,586.3	2004
		11	2005				5,573.5	0.0	448.5	3,230.5	1,205.2	60.3	1,285.4	2005
		12	2006				6,186.6	0.0	470.9	3,574.2	4,350.7	217.5	4,568.2	2006
		13	2007				6,171.3	0.0	494.4	3,917.8	7,316.2	365.8	7,682.0	2007
		14	2008				6,192.8	0.0	519.1	4,261.5	10,092.4	504.6	10,597.1	2008
		15	2009				6,132.9	0.0	545.1	4,632.1	12,643.0	632.2	13,275.2	2009
		16	2010				6,111.6	0.0	572.3	5,244.3	14,234.8	711.7	14,946.5	2010
		17	2011				6,088.7	0.0	601.0	6,347.3	15,288.9	764.4	16,053.4	2011
		18	2012				6,064.2	0.0	631.0	6,970.3	15,778.3	788.9	16,567.2	2012
		19	2013				6,037.8	0.0	662.6	7,593.4	15,874.1	783.7	16,457.9	2013
		20	2014				6,009.5	0.0	695.7	8,216.3	14,946.8	747.3	15,694.1	2014
		21	2015				5,945.9	0.0	730.5	10,265.0	12,106.5	605.3	12,710.7	2015
		22	2016				5,862.1	0.0	767.0	10,988.5	8,351.3	417.6	8,768.9	2016
		23	2017				5,810.6	0.0	805.4	11,711.9	5,086.0	3,673.0	3,856.8	2017
		24	2018				4,447.9	0.0	845.6	12,435.4	7,141.9	-164.3	-3,443.5	2018
		25	2019				2,339.9	0.0	887.9	13,158.9	-13,380.6	-689.0	-14,049.6	2019
		26	2020				594.4	0.0	932.3	16,118.9	-28,641.9	-1,432.1	-30,074.0	2020
		27	2021				0.0	0.0	978.9	16,118.9	-45,214.0	-2,260.7	-47,474.7	2021
		28	2022				0.0	0.0	1,027.9	16,118.9	-62,565.7	-3,128.3	-65,694.0	2022
		29	2023				0.0	0.0	1,079.3	16,118.9	-80,733.7	-4,036.7	-84,770.3	2023
		30	2024				0.0	0.0	1,133.2	16,118.9	-98,756.0	-4,987.8	-104,743.8	2024
		31	2025				0.0	0.0	1,189.9	16,118.9	-119,672.9	-5,963.6	-125,636.5	2025
		32	2026				0.0	0.0	1,249.4	16,118.9	-140,526.0	-7,026.3	-147,552.3	2026
		33	2027				0.0	0.0	1,311.8	16,118.9	-162,359.4	-8,116.0	-170,477.4	2027
		34	2028				0.0	0.0	1,377.4	16,118.9	-185,218.8	-9,250.9	-194,479.8	2028
		35	2029				0.0	0.0	1,446.3	16,118.9	-209,152.4	-10,457.6	-219,610.0	2029
		36	2030				0.0	0.0	1,518.6	16,118.9	-234,210.3	-11,710.5	-245,920.8	2030
		37	2031				0.0	0.0	768.8	4,275.1	-249,407.1	-12,470.4	-261,877.5	2031
		TOTAL					0.0	0.0	25,118.3	302,885.5	-1,506,741.8	-75,337.1	-1,582,076.9	
							0.0	0.0	91,026.8	186,540.4	-1,506,741.8	-75,337.1	-1,582,076.9	

Note: LOAN REPAY (F) : IBRD Toll Rate = Periodically Revised
LOAN REPAY (L) : Government Funds Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(L/D + B/C ROUTE)

F/C(L/D) (1994 prices)	F/C(B/C) (1994 prices)	No.	YEAR	INVESTMENT COSTS		LOAN REPAYMENT (including interest)		O & M COSTS	TOLL REVENUE	BALANCE (R-C)	TEMPORARY LOAN		Outstanding Loan Amount	YEAR
				INVEST (F)	INVEST (L)	TOTAL	REPAY (F)				REPAY (L)	LOAN		
120.2	86.0	1	1995	218.6	327.9	546.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1995
177.9	126.0	2	1996	337.3	505.9	843.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1996
57.7	40.0	3	1997	113.1	2,493.4	2,606.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1997
2,254.9	4,896.9	4	1998	8,695.5	9,268.5	17,964.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1998
6,053.8	4,625.8	5	1999	13,630.2	10,026.5	23,656.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1999
5,320.7	3,142.8	6	2000	11,341.9	7,704.1	19,046.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000
2,750.6		7	2001	3,870.4	2,112.1	5,982.4	0.0	0.0	186.4	1,283.7	-1,283.7	-64.2	-1,347.8	2001
12,923.5		8	2002				19.0	19.0	387.4	1,904.2	-2,846.7	-142.3	-2,988.0	2002
16,735.8		9	2003				48.3	48.3	408.8	2,201.6	-4,734.5	-236.7	-4,971.3	2003
		10	2004				58.1	58.1	427.1	2,499.2	-6,985.3	-349.3	-7,334.6	2004
		11	2005				813.0	813.0	448.5	3,230.5	-9,303.6	-465.2	-9,768.8	2005
		12	2006				1,996.3	1,996.3	470.9	3,574.2	-10,875.8	-543.8	-11,419.6	2006
		13	2007				2,981.0	2,981.0	494.4	3,917.8	-11,861.9	-593.1	-12,455.0	2007
		14	2008				3,317.0	3,317.0	519.1	4,261.5	-12,880.3	-844.0	-13,524.3	2008
		15	2009				3,317.0	3,317.0	545.1	4,632.1	-14,294.3	-714.7	-15,009.0	2009
		16	2010				3,317.0	3,317.0	572.3	5,724.3	-16,843.9	-842.2	-17,686.1	2010
		17	2011				3,317.0	3,317.0	601.0	6,347.3	-20,115.4	-1,005.8	-21,121.2	2011
		18	2012				3,317.0	3,317.0	631.0	6,970.3	-24,143.4	-1,207.2	-25,350.6	2012
		19	2013				3,317.0	3,317.0	662.6	7,593.4	-28,964.4	-1,448.2	-30,412.6	2013
		20	2014				3,317.0	3,317.0	695.7	8,216.3	-34,616.1	-1,730.8	-36,346.9	2014
		21	2015				3,317.0	3,317.0	730.5	10,265.0	-42,564.4	-2,128.2	-44,692.9	2015
		22	2016				3,317.0	3,317.0	767.0	10,998.5	-51,597.1	-2,579.9	-54,176.9	2016
		23	2017				3,317.0	3,317.0	805.4	11,711.9	-61,766.4	-3,088.3	-64,854.8	2017
		24	2018				3,317.0	3,317.0	845.6	12,436.4	-73,127.5	-3,696.4	-76,823.9	2018
		25	2019				3,317.0	3,317.0	887.9	13,158.9	-85,737.8	-4,296.9	-90,034.7	2019
		26	2020				3,298.1	3,298.1	932.3	16,118.9	-101,913.3	-5,095.7	-107,008.9	2020
		27	2021				3,268.8	3,268.8	978.9	16,118.9	-118,880.1	-5,944.0	-124,824.1	2021
		28	2022				3,259.0	3,259.0	1,027.9	16,118.9	-136,656.2	-6,832.8	-143,489.0	2022
		29	2023				2,504.0	2,504.0	1,079.3	16,118.9	-156,024.6	-7,801.2	-163,825.8	2023
		30	2024				1,320.7	1,320.7	1,133.2	16,118.9	-177,490.8	-8,874.5	-186,365.4	2024
		31	2025				336.0	336.0	1,189.9	16,118.9	-200,958.4	-10,047.9	-211,006.3	2025
		32	2026				0.0	0.0	1,249.4	16,118.9	-225,875.8	-11,293.8	-237,169.6	2026
		33	2027				0.0	0.0	1,311.8	14,807.1	-251,976.7	-12,596.8	-264,573.5	2027
		34	2028				0.0	0.0	1,377.4	16,118.9	-279,317.0	-13,965.8	-293,282.8	2028
		35	2029				0.0	0.0	1,448.3	16,118.9	-307,965.4	-16,397.8	-324,363.2	2029
		36	2030				0.0	0.0	1,518.6	16,118.9	-337,963.5	-17,916.9	-354,880.4	2030
		37	2031				0.0	0.0	788.8	4,275.1	-358,337.5	-17,916.9	-376,254.4	2031
TOTAL				36,206.9	32,438.3	70,645.2	59,706.8	25,118.3	302,685.5	217,860.3	-3,167,880.9	-158,394.0	-3,326,274.9	

Note: LOAN REPAY (F) : O&M
LOAN REPAY (L) : Government Funds
Toll Rate = Periodically Revised
Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(L/D + B/C ROUTE)

F/C(UD) (1994 prices)	F/C(B/C) (1994 prices)	No.	YEAR	INVESTMENT COSTS		LOAN REPAYMENT (Including Interest)		O & M COSTS	TOLL REVENUE	BALANCE (R-C)	TEMPORARY LOAN		Outstanding Loan Amount	YEAR
				INVEST (F)	INVEST (L)	REPAY (F)	REPAY (L)				LOAN	INTEREST		
120.2	86.0	1	1995	218.6	327.9	546.5	56.9	56.9	1,470.1	-56.9	56.9	2.8	58.7	1995
177.9	126.0	2	1996	337.3	505.9	843.2	144.6	144.6	1,904.2	-144.6	204.3	10.2	214.5	1996
57.7	40.0	3	1997	113.1	2,493.4	2,606.5	576.9	791.4	2,201.6	-576.9	791.4	39.6	830.9	1997
2,254.9	4,888.9	4	1998	8,695.5	9,268.5	17,964.0	2,183.8	2,183.8	3,230.5	-2,183.8	3,014.7	150.7	3,165.5	1998
6,053.8	4,625.8	5	1999	13,630.2	10,026.5	23,656.6	3,922.2	3,922.2	4,261.5	-3,922.2	7,087.6	354.4	7,442.0	1999
5,320.7	3,142.8	6	2000	11,341.9	7,704.1	19,046.0	5,293.5	5,293.5	4,261.5	-5,293.5	12,735.5	636.8	13,372.3	2000
2,750.6		7	2001	3,870.4	2,112.1	5,982.4	90.4	90.4	5,724.3	-4,430.8	17,803.0	890.2	18,693.2	2001
16,795.8	12,923.5	8	2002				108.5	108.5	6,347.3	-4,215.8	22,909.0	1,145.4	24,054.4	2002
		9	2003				1,523.2	1,523.2	6,970.3	-5,352.4	29,406.9	1,470.3	30,877.2	2003
		10	2004				3,737.4	3,737.4	7,593.4	-7,289.3	38,166.5	1,908.3	40,074.9	2004
		11	2005				5,573.5	5,573.5	8,216.3	-8,358.6	48,433.5	2,421.7	50,855.2	2005
		12	2006				6,186.6	6,186.6	10,265.0	-8,564.8	59,419.9	2,971.0	62,390.9	2006
		13	2007				6,171.3	6,171.3	13,158.5	-7,785.2	70,186.1	3,509.3	73,695.4	2007
		14	2008				6,152.8	6,152.8	17,119.9	-5,850.7	79,546.1	3,977.3	83,523.4	2008
		15	2009				6,132.9	6,132.9	18,158.9	-4,632.1	87,271.3	4,363.6	91,634.9	2009
		16	2010				6,111.6	6,111.6	19,189.9	-3,325.8	92,960.7	4,648.0	97,608.7	2010
		17	2011				6,088.7	6,088.7	20,265.0	-342.4	97,951.1	4,897.6	102,848.6	2011
		18	2012				6,064.2	6,064.2	21,358.5	275.1	102,573.5	5,128.7	107,702.2	2012
		19	2013				6,037.8	6,037.8	22,451.9	893.0	105,809.1	5,340.5	112,149.6	2013
		20	2014				6,009.5	6,009.5	23,545.9	1,511.1	110,638.5	5,531.9	116,170.5	2014
		21	2015				5,945.9	5,945.9	24,639.9	3,588.7	112,581.8	5,629.1	118,210.9	2015
		22	2016				5,862.1	5,862.1	25,733.9	4,359.4	113,851.5	5,692.6	119,544.1	2016
		23	2017				5,810.6	5,810.6	26,827.9	5,086.0	114,448.1	5,722.4	120,170.5	2017
		24	2018				4,447.9	4,447.9	27,921.9	7,141.9	113,028.6	5,651.4	118,680.1	2018
		25	2019				2,339.9	2,339.9	29,015.9	9,931.1	108,749.0	5,437.5	114,186.5	2019
		26	2020				594.4	594.4	30,109.9	14,592.2	99,594.2	4,979.7	104,573.9	2020
		27	2021				0.0	0.0	31,203.9	16,118.9	89,433.9	4,471.7	93,905.6	2021
		28	2022				0.0	0.0	32,297.9	15,091.0	78,814.5	3,940.7	82,755.3	2022
		29	2023				0.0	0.0	33,391.9	14,985.7	67,715.7	3,385.8	71,101.4	2023
		30	2024				0.0	0.0	34,485.9	14,929.0	56,115.8	2,805.8	58,921.5	2024
		31	2025				0.0	0.0	35,580.0	14,873.9	43,992.5	2,199.6	46,192.1	2025
		32	2026				0.0	0.0	36,674.0	14,818.9	31,322.6	1,566.1	32,888.7	2026
		33	2027				0.0	0.0	37,768.0	14,763.9	18,081.7	904.1	18,985.8	2027
		34	2028				0.0	0.0	38,862.0	14,708.9	4,244.3	212.2	4,458.5	2028
		35	2029				0.0	0.0	39,956.0	14,653.9	-10,216.1	-10.8	-10,226.9	2029
		36	2030				0.0	0.0	41,050.0	14,600.3	-25,327.2	-1,266.4	-26,593.5	2030
		37	2031				0.0	0.0	42,144.0	14,546.3	-30,079.9	-1,504.0	-31,583.9	2031
		TOTAL					38,206.9	32,438.3	302,685.5	190,299.7	1,974,516.7	98,715.8	2,073,032.5	

Note: LOAN REPAY (F) : IBRD
LOAN REPAY (L) : Long Term Local Loans
Toll Rate = Periodically Revised
Cost Escalation = 5.0 % p.a.

APPENDIX 10.3-1 REPAYMENT PROGRAM

FINANCIAL REPAYMENT PROGRAM
(L/D + B/C ROUTE)

F/C(L/D) (1994 prices)	F/C(B/C) (1994 prices)	No.	YEAR	INVESTMENT COSTS			LOAN REPAYMENT (including interest)			O & M COSTS	TOLL REVENUE	BALANCE (R-C)	TEMPORARY LOAN INTEREST		Outstanding Loan Amount	YEAR	
				INVEST (F)	INVEST (L)	TOTAL	REPAY (F)	REPAY (L)	TOTAL REPAY				LOAN	INTEREST			
120.2	88.0	1	1995	218.6	327.9	546.5	56.9	56.9	56.9	-56.9	56.9	2.8	2.8	59.7	1995		
177.9	128.0	2	1996	337.3	505.9	843.2	144.6	144.6	144.6	-144.6	204.3	10.2	10.2	214.5	1996		
57.7	40.0	3	1997	113.1	2,493.4	2,606.5	576.9	576.9	576.9	-576.9	791.4	39.6	39.6	830.9	1997		
2,254.9	4,898.9	4	1998	8,695.5	9,268.5	17,964.0	2,183.8	2,183.8	2,183.8	-2,183.8	3,014.7	150.7	150.7	3,165.5	1998		
6,053.8	4,625.8	5	1999	13,630.2	10,026.5	23,656.6	3,922.2	3,922.2	3,922.2	-3,922.2	7,087.6	354.4	354.4	7,442.0	1999		
5,320.7	3,142.8	6	2000	11,341.9	7,704.1	19,046.0	5,257.9	5,257.9	5,257.9	-5,257.9	12,698.9	635.0	635.0	13,334.9	2000		
2,750.6		7	2001	3,870.4	2,112.1	5,982.4	5,624.1	5,624.1	5,624.1	-5,624.1	17,675.3	883.8	883.8	18,559.1	2001		
16,735.8		8	2002				5,624.1	5,624.1	5,624.1	-5,624.1	22,865.3	1,134.3	1,134.3	23,819.6	2002		
		9	2003				5,624.1	5,624.1	5,624.1	-5,624.1	27,697.1	1,384.9	1,384.9	29,081.9	2003		
		10	2004				5,624.1	5,624.1	5,624.1	-5,624.1	32,592.0	1,634.6	1,634.6	34,326.6	2004		
		11	2005				5,624.1	5,624.1	5,624.1	-5,624.1	37,924.7	1,886.2	1,886.2	39,821.0	2005		
		12	2006				5,624.1	5,624.1	5,624.1	-5,624.1	44,193.5	2,209.7	2,209.7	46,403.2	2006		
		13	2007				5,624.1	5,624.1	5,624.1	-5,624.1	51,008.0	2,550.4	2,550.4	53,558.4	2007		
		14	2008				5,624.1	5,624.1	5,624.1	-5,624.1	58,334.0	2,928.7	2,928.7	61,262.7	2008		
		15	2009				5,624.1	5,624.1	5,624.1	-5,624.1	66,188.9	3,346.7	3,346.7	69,535.6	2009		
		16	2010				5,624.1	5,624.1	5,624.1	-5,624.1	74,613.0	3,811.9	3,811.9	78,424.9	2010		
		17	2011				5,624.1	5,624.1	5,624.1	-5,624.1	83,617.0	4,324.3	4,324.3	87,941.3	2011		
		18	2012				5,624.1	5,624.1	5,624.1	-5,624.1	93,201.0	4,894.4	4,894.4	98,095.4	2012		
		19	2013				5,624.1	5,624.1	5,624.1	-5,624.1	103,475.0	5,524.3	5,524.3	109,000.0	2013		
		20	2014				5,624.1	5,624.1	5,624.1	-5,624.1	114,469.0	6,215.5	6,215.5	120,684.5	2014		
		21	2015				5,624.1	5,624.1	5,624.1	-5,624.1	126,303.0	6,968.5	6,968.5	133,271.5	2015		
		22	2016				5,624.1	5,624.1	5,624.1	-5,624.1	138,887.0	7,785.4	7,785.4	146,672.4	2016		
		23	2017				5,624.1	5,624.1	5,624.1	-5,624.1	152,221.0	8,671.3	8,671.3	161,892.3	2017		
		24	2018				5,624.1	5,624.1	5,624.1	-5,624.1	166,315.0	9,631.2	9,631.2	178,946.2	2018		
		25	2019				5,624.1	5,624.1	5,624.1	-5,624.1	181,169.0	10,669.5	10,669.5	198,838.5	2019		
		26	2020				5,624.1	5,624.1	5,624.1	-5,624.1	196,893.0	11,791.9	11,791.9	210,684.9	2020		
		27	2021				5,624.1	5,624.1	5,624.1	-5,624.1	213,487.0	12,999.8	12,999.8	228,486.8	2021		
		28	2022				5,624.1	5,624.1	5,624.1	-5,624.1	230,961.0	14,300.7	14,300.7	253,261.7	2022		
		29	2023				5,624.1	5,624.1	5,624.1	-5,624.1	249,335.0	15,709.6	15,709.6	279,044.6	2023		
		30	2024				5,624.1	5,624.1	5,624.1	-5,624.1	268,619.0	17,229.5	17,229.5	306,273.5	2024		
		31	2025				5,624.1	5,624.1	5,624.1	-5,624.1	288,814.0	18,865.0	18,865.0	335,679.0	2025		
		32	2026				5,624.1	5,624.1	5,624.1	-5,624.1	309,929.0	20,620.2	20,620.2	367,549.2	2026		
		33	2027				5,624.1	5,624.1	5,624.1	-5,624.1	332,953.0	22,500.7	22,500.7	400,453.7	2027		
		34	2028				5,624.1	5,624.1	5,624.1	-5,624.1	357,987.0	24,519.6	24,519.6	434,506.6	2028		
		35	2029				5,624.1	5,624.1	5,624.1	-5,624.1	385,041.0	26,680.5	26,680.5	468,721.5	2029		
		36	2030				5,624.1	5,624.1	5,624.1	-5,624.1	414,115.0	28,999.0	28,999.0	503,114.0	2030		
		37	2031				5,624.1	5,624.1	5,624.1	-5,624.1	445,219.0	31,580.9	31,580.9	538,800.0	2031		
		TOTAL					38,206.9	32,438.3	70,645.2	59,706.8	56,240.7	115,947.5	25,118.3	302,685.5	161,619.7	15,658.9	328,836.5

Note: LOAN REPAY (F); OECF
Toll Rate = Periodically Revised
LOAN REPAY (L); Long Term Local Loans Cost Escalation = 5.0 % p.a.

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