

## APPENDIX D

### LIST OF TOLL ROAD PROJECTS IN SELECTED ASIAN COUNTRIES

#### A. Indonesia

##### 1. Toll Roads in Operation

No.	Toll Road/Bridge Segment Name	Length (km)	Date Opened	Operator
1	Jagorawi	46.00	1978.03.09	PT Jasa Marga
2	Jakarta – Tangerang Barat	27.00	1984.11.27	PT Jasa Marga
3	Jakarta – Cikampek	72.00	1988.09.21	PT Jasa Marga
4	Jakarta – Tomang – Cengkareng			PT Jasa Marga
	Cawang – Tomang	16.00	1989.11.01	
	Cengkareng	14.30	1985.04.01	
	Tomang – Grogol Pluit	7.50	1996.06.19	
	Bagian Pluit – Jembatan Tiga,	0.34	1996.06.19	
	Access Cengkareng	1.12	1996.06.19	
5	Padalarang – Cileunyi			PT Jasa Marga
	Padalarang – Cileunyi	35.63	1991.03.11	
	Access Pasteur	5.71	1991.03.11	
	Access Pasir Koja	5.24	1991.03.11	
	Citarum Bridge	0.91	1979.08.14	
6	Semarang Seksi A & B			PT Jasa Marga
	Srandol – Jatingaleh	6.30	1983.07.09	
	Jatingaleh – Krapyak	8.45	1987.09.07	
7	Surabaya – Gempol			PT Jasa Marga
	Surabaya – Waru	17.00	1986.07.26	
	Waru – Gempol	25.00	1986.07.26	
8	Mojokerto Bridge	1.25	1982.07.15	PT Jasa Marga
9	Belmera, Medan	34.40	1986.12.15	PT Jasa Marga
10	Cawang – Tanjung Priok – Jembatan Tiga			PT. Citra Marga Nusaphala Persada
	Cawang – Tanjung Priok	15.50	1989.11.10	
	Tanjung Priok – Ancol Timur	4.67	1995.09.02	
	Ancol Timur – Jembatan Tiga	7.08	1996.06.19	
	Access Tanjung Priok	1.73	1989.11.10	
	Bagian Pluit – Jembatan Tiga	1.96	1996.06.19	
11	Tangerang Barat – Merak			PT. Marga Mandalasakti
	Tangerang Barat – Tanjung Gerem	72.45	1995.09.03	
12	Surabaya – Gresik			PT. Margabumi Matraraya
	Dupak – Manjar	20.05	1993.03.08	
13	Ujung Pandang			PT. Bosowa Marga Nusantara
	Tallo Lama Gridge	1.00	1981.08.26	
14	JORR Seksi S+E1			PT. Marga Nurindo Bhakti
	Seksi S (Pd. Pinang – Kp. Rambutan)	14.83	1995.09.02	

No.	Toll Road/Bridge Segment Name	Length (km)	Date Opened	Operator
15	JORR Seksi E2+E3+N			PT. Citra Bhakti Margatama
	Cikunir – Cakung	8.80	1991.10.09	
	Total Jasa Marga	324.15		
	Total Private	148.07		
	Grand Total	472.22		

Sources: World Expressways (EHRF, 1998); *Toll Roads: Indonesia Investors Opportunity* (Indonesia Ministry of Public Works, 1997); various MOPW data sources (1998).

## 2. Toll Roads Under Construction

No.	Toll Road/Bridge Segment Name	Length (km)	Operator
1*	Palimanan – Cirebon	26.30	PT Jasa Marga
2	Semarang Section C	9.75	PT Jasa Marga
3	Cileunyi – Nagrek	23.40	PT Jasa Marga
4	JORR W1	9.70	PT. Jakarta Lingkar Barat Satu
5*	JORR W2	11.17	PT. Citra Mataram Satriamarga Persada
6*	JORR S+E1		PT. Marga Nurindo Bhakti
	Section E1 ( Kp.Rambutan - Cikunir)	11.89	
7*	JORR E2+E3+N	10.41	PT. Citra Bhakti Margatama Persada
8	Jakarta – Serpong		
	Pndok Aren – Serpong	7.20	PT. Bintaro Serpong Damai
9*	Bekasi Timur - Kampung Melayu	21.50	PT. Kresna Kusuma Dyandara Marga
10	Cikampek – Padalarang	59.00	PT. Citra Ganesha Marga Nusantara
11	Surabaya – Mojokerto	36.40	PT. Marga Nujuasumo Agung
12	Ujung Pandang	10.21	PT. Bosowa Marga Nusantara
	Total Jasa Marga	59.45	
	Total Private	177.48	
	Grand Total	236.93	

Sources: World Expressways (EHRF, 1998); *Toll Roads: Indonesia Investors Opportunity* (Indonesia Ministry of Public Works, 1997); various MOPW data sources (1998).

\* Project is to be continued after the financial crisis.

## 3. Toll Roads Under Investigation Process

No.	Toll Road/Bridge Segment Name	Length (km)	Operator
1	Ulujami – Pondok Aren	5.90	Jasa Marga
2	Toll Road in combination with Light Rail Transit on North-South Corridor	16.00	PT. Citra Lamtoro Gung Persada
3	Jati Asih – Karawang Jati Asih – Cikarang	34.00	---
4	Cileunyi – Tanjung San	7.30	---
5	Bogor Ring Road	11.20	PT. Nindya Karya (Persero)
6	Bandung Dalam Kota	16.00	PT. Arthayasa Adhiprima & Group
7	Sadang – Subang	37.00	Concord Benefit Enterprise
8	Subang – Dawuan	52.50	PT. Bhaskara Lokabuana
9	Dawuan – Palimanan	24.50	Van der Horst Ltd.
10	Ciawi – Sukabumi	53.50	PT. Bukaka Teknik Utama
11	Sukabumi – Ciranjang	31.00	Bina Puri Holdings Bhd.
12	Ciranjang – Padalarang	30.00	Bina Puri Holdings Bhd.
13	Soreang – Kopo – Pasirkaliki	7.13	PT. Bina Buana Armatha
14	Ujung Berung – Gede Bage	7.13	PT. Dyandra Pancagraha

No.	Toll Road/Bridge Segment Name	Length (km)	Operator
15	Bandung Dalam Kota Rusa Kiaracondong	8.25	PT. Mitra Buana Prakasa
16	Semarang – Batang	75.00	PT. Marga Setiapuritama
17	Semarang – Demak	14.17	PT. Marga Mawatindo Esprit
18	Solo – Yogya	45.00	PT. Citra Lamtoro Gung Persada
19	Kanci – Pejagan	34.00	PT. Bakrie Investindo
20	Pejagan – Pemalang	56.00	PT. Sumber Mitra Jaya
21	Pemalang – Batang	35.00	PT. Sumber Mitra Jaya
22	Semarang – Solo	68.70	PT. Karsa Semesta Indah
23	Gempol – Pandaan	13.64	PT. Margabumi Matraraya
24	Pandaan – Pasuruan	32.40	PT. Marga Pexacor Adya Sejati
25	Jembatan Suramadu	5.44	PT. Dhipa Madura Pradana
26	Gresik – Tuban	75.00	PT. Margabumi Matraraya
27	Aloha – Waru – Tanjung Perak	14.70	PT. Tridaya Esta
28*	Waru IC – Tanjung Perak	31.60	PT. Citra Marga Nusaphala Persada
29	Kertosono – Mojokerto	38.00	PT. Hanurata Coy Ltd.
30	Pandaan – Malang	29.50	PT. Setdco Graha Nusantara
31	Pasuruan – Probolinggo	40.00	PT. Bukaka Teknik Utama
Total		959.16	

Sources: World Expressways (EHRF, 1998); *Toll Roads: Indonesia Investors Opportunity* (Indonesia Ministry of Public Works, 1997); various MOPW data sources (1998).

\* Project is to be continued after the financial crisis.

## B. Malaysia

### 1. Toll Roads in Operation

No.	Toll Road/Bridge Segment Name	Length (km)	Date Opened	Operator
1	North South Expressway	847.7	–	MHA
2	North South Expressway Central Link	48.0	–	MHA
3	Shah Alam Expressway	35.0	–	MHA
4	Kuala Lumpur – Karak Highway	60.0	–	MHA
5	Penang Bridge	13.5	–	MHA
6	Malaysia – Singapore Second Crossing	46.0	–	MHA
7	Seremban – Port Dickson Highway	22.7	–	MHA
8	North Klang Bypass	15.3	–	JKR
9	Kuching Road	5.3	–	JKR
10	Kuala Lumpur City Roads	16.5	–	K.L. City Hall
11	Kulim Butterworth Highway	17.0	–	MHA
Total		1,127.0		

Source: Malaysian Highway Authority Resource Paper (August 1998)

### 2. Toll Roads Under Construction

No.	Toll Road/Bridge Segment Name	Length (km)	Operator
1	Damansara – Puchong Highway	40.0	MHA
2	New Pantai Highway	19.6	MHA
3	Sungai Besi Highway	16.0	MHA
4	Cheras – Kajang Highway	11.5	MHA
5	Ampang Elevated Highway	7.4	MHA
6	Butterworth Outer Ring Road	18.9	MHA
7	Kajang – Seremban Highway	48.5	MHA

No.	Toll Road/Bridge Segment Name	Length (km)	Operator
8	Kajang Dispersal Road	37.0	MHA
9	KL – KLIA Dedicated Highway	42.0	MHA
10	KL Western Dispersal Highway	26.0	MHA
11	Assam Jawa – Taman Rimba Templer Highway	31.0	MHA
Total		297.9	

Source: Malaysian Highway Authority Resource Paper (August 1998)

### 3. Toll Roads Concession Agreement Signed Construction not Yet Started

No.	Toll Road/Bridge Segment Name
1	KL West Traffic dispersal Scheme (SPRINT)
2	Butterworth Outer Ring Road

Source: Ministry of Works

## C. Philippines

### 1. Toll roads in operation

No.	Toll Road/Bridge Segment Name	Length (km)	Date Opened	Operator
1	North Luzon Expressway	78.1	1968	PNCC
2	South Luzon Expressway	42.3	1968	PNCC
3	Metro Manila Skyway (Stage 1, Southern Section- Phase 1)	9.3	Dec. 1998	PNCC / CMMTC
4	Manila-Cavite Toll Expressway (R1)	6.6	May 1998	PEA / Renong
5	Baguio-Bontoc Toll Road	32.0	1960s (?)	DPWH
Total		168.3		

Source: PNCC and DPWH Project Profile Sheets (August 1998)

### 2. Toll Roads Under Construction or Investment Process

No.	Toll Road/Bridge Segment Name	Length (km)	Operator
1	Metro Manila Skyway (Stage 1 Southern Section- Phase 2)	1.7	PNCC / CMMTC
2	North Luzon Expy Upgrade (Balintawak – Sta. Ines)	82.6	PNCC / FPIDC
3	South Luzon Expy Upgrade (Alabang – Calamba)	28.4	PNCC / Hopewell
4	Southern Tagalog Arterial Road Tollway (STAR), Lipa City – Batangas	19.74	Stradec (DPWH “solicited” BOT)
5	Manila-Cavite Toll Expressway (C-5 link)	6.0	PEA / Renong
6	Manila-Cavite Toll Expressway (R-1 Extension)	9.5	PEA / Renong
Total		147.9	

Source: PNCC and DPWH Project Profile Sheets (August 1998)

### 3. Toll Roads Under Investigation or Planning Process

No.	Toll Road/Bridge Segment Name	Length (km)	Operator
1	Metro Manila Skyway (Stage 2 Bicutan – Alabang)	13.8	PNCC / CMMTC
2	Metro Manila Skyway (Stage 3 Quirino Ave. – A. Bonifacio)	11.6	PNCC / CMMTC
3	Circumferential Road 6 (C-6) Tollway Metro Manila Tollway (MMT)	59.5	PNCC / CMMTC

No.	Toll Road/Bridge Segment Name	Length (km)	Operator
4	Circumferential Road 6 (C-6) Tollway Laguna de Bay Coastal Road (LBCR)	18.6	PNCC / CMMTC/ John Laing / DM Consuji / Filinvest
5	Circumferential Road 6 (C-6) Tollway Southern Segment of C-6	20.3	PEA / Renong
6	North Luzon Expressway Extension (new construction)	89.27	PNCC / FPIDC
7	South Luzon Expressway Extension (Calamba – Tagaytay)	20.0	PNCC
8	Southern Tagalog Arterial Road (STAR), Sto. Thomas – Lipa City	22.0	DPWH, Stradec
9	South Luzon Tollway Extension Calamba- Pagbilao	82.2	PNCC
10	Clark Expressway	14.3	PNCC / BCDA / CDC / CIAC
11	Ortigas Expressway	5.7	PNCC / Ireka Group
12	Pasig Expressway (R-4 and R-5 Expressway)	17.8	PNCC / STRADEC
13	Laguna de Bay Tollway	--	PNCC (open to investors)
14	R-10 / C-3 Expressway	6.95	PNCC / Kværner
15	“X-O” Project	---	PNCC / SEED
16	Sierra Madre Eastern Corridor	---	PNCC (open to investors)
17	Mabalacat – Castillejos Road	---	PNCC (open to investors)
18	North Luzon Expressway East (NLEE)	250	DPWH (open to investors)
19	North Luzon East Tollway	---	PNCC (open to investors)
	Total	632.0	

Source: PNCC and DPWH Project Profile Sheets (August 1998)

## D. Thailand

### 1. Toll roads in Operation

No.	Toll Road/Bridge Segment Name	Length (km)	Date Opened	Operator
1	First Stage Expressway	27.1	1981.10.29	ETA
2	Second Stage Expressway	29.8	1983.01.17	BECL
3	Ram Inthra - At Narong	19.7	1997.12.05	ETA
4	Don Muang Tollway	15.4	1994.12	DMTC
	Total	91.0		

Source: ETA, DOH (as of June 1998)

### 2. Toll roads Under Construction

No.	Toll Road/Bridge Segment Name	Length (km)	Operator
1	Second Stage Expressway	8.0	BECL
2	Bang Na – Bang Pankong,	55.0	Belfinger+Berger
3	Bang Pa In – Pakkred	34.0	–
4	Third Stage Expressway	35.0	Belfinger+Berger
5	Dao Kanong – Samut Sakorn	25.7	–
6	Bangkok ORR (Eastern Portion)	64.0	–
7	Bangkok – Chonburi New Highway	82.0	–
	Total	303.7	

Source: ETA, DOH (as of June 1998)

### 3. Toll Roads Under Investigation Process

No.	Toll Road/Bridge Segment Name	Length (km)	E. Operator
1	Srinakarin – Samut Prakarn	18.5	–
2	Fourth Stage Expressway	17.8	–
3	Fifth Stage Expressway	24.2	–
4	Phaya Thai – OBRR	14.0	–
5	Ram Inthra – OBRR	6.1	–
6	OBRR – Nakorn Pathom	40.0	–
7	Sixth Stage Expressway	13.5	–
8	Bang Yai – Ban Pong	53.0	–
9	Ban Pon – Phetchaburi Cha-am	134.0	–
10	Phattaya – Mab Ta Phut	38.0	–
11	Lampang – Chiang Mai	106.0	–
12	ORR (Southern Portion)	35.0	–
13	ORR – Chiang Rai	649.6	–
14	ORR – Nong Khai	535.5	–
15	ORR – Chanthaburi	171.9	–
16	ORR – Songkhla	764.4	–
17	Nakorn Ratchasima - Ubon Ratchathani	301.1	–
18	Outer Bangkok Ring Road	68.7	–
19	ORR – Kanchanaburi	100.0	–
20	ORR – Suphan Buri	62.0	–
21	ORR – Aranyaprathet	211.7	–
22	Chon Buri – Nakhon Ratchasima	239.1	–
23	Ratchaburi – Chachoengsao	365.8	–
24	Landbridge(Krabi – Khanom)	190.7	–
25	Surat Thani – Phuket	136.0	–
26	Nakhon Si Thammarat	36.9	–
	Total	4,333.5	

Source: ETA, DOH (as of June 1998)