

**APPENDIX 3. PROFILE OF TRANSPORT  
FACILITIES AND SERVICE  
LEVEL**



## **APPENDIX 3. PROFILE OF TRANSPORT FACILITIES AND SERVICE LEVEL**

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Based on the existing data and the surveys carried out by the Study Team, the profiles of transport facilities in the UCR and their service levels are compiled. They are:

Table A3-1: Level of Service Calculations for the UCR Highways (21 March, 1990)

Table A3-2: Delays due to Congestion and Road Conditions

Table A3-3: Adjusted Link Travel Times for National and Provincial Highway Network (27 March, 1990)

Table A3-4: Passenger Boardings and Alightings in Railway in the UCR



**Table A3-2: Delays due to Congestion and Road Conditions**

Number	Route	UCR Observed		Rec Speed	Des Spd	Ratio
		Rghns	Factor			
1	33	2		90	90	100.0%
2	329	2		80	90	88.9%
3	3063	2		70	90	77.8%
4	1	1		90	90	100.0%
5	2	2		90	90	100.0%
6	2089	1		90	90	100.0%
7	3017	1		90	90	100.0%
8	21	2		90	90	100.0%
9	205	3		90	90	100.0%
10	3213	4		40	70	57.1%
11	?	5		20	70	28.6%

Delays Due to Congestion			
LOS	V/C	Speed mph	Time ratio
LOS-A	0.00	50	100.00%
LOS-B	0.36	42	119.05%
LOS-C	0.54	39	128.21%
LOS-D	0.71	36	138.89%
LOS-E	0.87	32	156.25%
LOS-F	1.00	25	200.00%

Delays Due to Road Conditions	
G	100%
G/F	100%
F	125%
F/P	167%
P	333%

**Table A3-3: Adjusted Link Travel Times for National and Provincial Highway Network (27 March, 1990)**

District	Route	Sect	Length	Func Class	UCR Class	Lns	Surf Type	Cond	L.O.S.	Free Tvl Time 80	Impeded Time
<b>Multi-lane Roads</b>											
Pathum Thani	1	201	19.1	PD	Art	4	AC	F/P	LOS-C	00:14	00:30
Ayutthaya	1	202	17.1	PD	Art	4	AC	F	LOS-B	00:12	00:19
Ayutthaya	1	301	14.8	PD	Art	4	AC	G	LOS-A	00:11	00:11
Sara Buri	1	302	26.6	PD	Art	4	AC	F	LOS-A	00:19	00:24
Sara Buri	1	400	17.2	PD	Art	4	AC	G/F	LOS-A	00:12	00:12
<b>2-Lane Roads</b>											
Sara Buri	1	303	2.8	P3	Art	2	UPM	F	LOS-A	00:02	00:02
Lop Buri	1	500	29.5	P3	Art	2	PM	G	LOS-C	00:22	00:28
Lop Buri	1	600	35.9	P3	Art	2	UPM	F/P	LOS-B	00:26	00:53
Chai Nat	1	700	41.2	P3	Art	2	DBST	G/F	LOS-A	00:30	00:30
Chai Nat	1	801	8.2	P1	Art	2	AC	F	LOS-A	00:06	00:07
Chai Nat	1	802	12.0	P1	Art	2	AC	F	LOS-B	00:09	00:13
Chai Nat	1	900	24.9	P3	Art	2	PM	G/F	LOS-B	00:18	00:22
Chai Nat	1	1001	25.5	P3	Art	2	DBST	G/F	LOS-A	00:19	00:19
Sara Buri	2	101	36.1	P1	Art	2	AC	F	LOS-D	00:27	00:46
Sara Buri	2	102	5.4	P1	Art	2	AC	F	LOS-A	00:04	00:05
Sara Buri	2	200	22.2	P1	Art	2	AC	F	LOS-A	00:16	00:20
Sara Buri	2	301	0.5	P1	Art	2	AC	G/F	LOS-E	00:00	00:00
Chai Nat	11	100	41.3	P1	Art	2	DBST	F	LOS-A	00:30	00:38
Sara Buri	21	100	1.1	P1	Art	2	AC	F	LOS-A	00:00	00:01
Lam Na Rai	21	200	20.6	P2	Art	2	AC	G/F	LOS-B	00:15	00:18
Lam Na Rai	21	300	30.4	P2	Art	2	AC	F	LOS-A	00:22	00:28
Lam Na Rai	21	400	39.2	P2	Art	2	AC	G/F	LOS-B	00:29	00:34
Ayutthaya	32	401	16.7	P1	Art	2	AC	F	LOS-D	00:12	00:21
Ayutthaya	32	402	3.1	P1	Art	2	AC	F	LOS-A	00:02	00:02
Ayutthaya	32	500	31.0	P1	Art	2	AC	F	LOS-D	00:23	00:40
Ayutthaya	32	601	0.4	P1	Art	2	AC	F	LOS-A	00:00	00:00
Lop Buri	32	602	38.6	P1	Art	2	AC	G/F	LOS-D	00:28	00:40
Chai Nat	32	700	43.0	P1	Art	2	AC	G	LOS-C	00:32	00:41
Chai Nat	32	801	46.4	P1	Art	2	AC	G	LOS-A	00:34	00:34
Chai Nat	32	802	12.5	P1	Art	2	AC	G	LOS-C	00:09	00:11
Sara Buri	33	101	26.4	P3	Art	2	AC	F/P	LOS-B	00:19	00:39
Lam Na Rai	205	100	19.2	S3	Art	2	PM	F	LOS-A	00:14	00:18
Lam Na Rai	205	200	29.0	S3	Art	2	PM	F	LOS-B	00:21	00:32
Lam Na Rai	205	300	25.4	S3	Art	2	PM	F	LOS-A	00:19	00:23
Lam Na Rai	205	400	31.0	S3	Art	2	PM	F	LOS-A	00:23	00:29
Ayutthaya	308	100	8.7	S3	Col	2	UPM	F	LOS-B	00:06	00:09
Ayutthaya	309	100	20.9	S3	Col	2	UPM	F	LOS-D	00:15	00:27
Ayutthaya	309	200	31.7	S3	Col	2	PM	G	LOS-A	00:23	00:23
Ayutthaya	309	301	0.4	S3	Col	2	PM	F	LOS-A	00:00	00:00
Lop Buri	309	302	39.5	S3	Col	2	PM	G/F	LOS-A	00:29	00:29
Lop Buri	311	100	32.2	S3	Art	2	PM	F	LOS-D	00:24	00:41
Chai Nat	311	200	49.7	P1	Art	2	UPM	F	LOS-A	00:37	00:46
Sara Buri	329	100	19.2	S3	Col	2	PM	F	LOS-A	00:14	00:17
Ayutthaya	334	100	3.3	S1	Art	2	AC	F	LOS-A	00:02	00:03
Lop Buri	335	100	1.0	S1	Col	2	AC	G/F	LOS-B	00:00	00:00
Pathum Thani	340	401	19.8	--	Art	2	AC	G	LOS-A	00:14	00:14
Suphan Buri	340	402	22.1	S3	Art	2	AC	G/F	LOS-B	00:16	00:19
Sara Buri	2089	101	2.4	F3	Art	2	UPM	F	LOS-A	00:01	00:02
Sara Buri	2089	102	26.3	--	Art	2	SA	F	LOS-A	00:19	00:24
Sara Buri	2089	103	1.5	F6	Art	2	SA	G/F	LOS-A	00:01	00:01

Adjusted Link Travel Times for National and Provincial Hwy Network - 27 March 1990

District	Route	Sect	Length	Func Class	UCR Class	Ln	Surf Type	Cond	L.O.S.	Free Tvl Time 80	Impeded Time
Sara Buri	2089	104	10.4	F6	Art	2	SA	G/F	LOS-A	00:07	00:07
Lam Na Rai	2089	200	34.2	F3	Art	2	SA	F	LOS-A	00:25	00:32
Lam Na Rai	2129	100	1.5	F3	Col	2	PM	F/P	LOS-C	00:01	00:02
Lam Na Rai	2219	100	15.7	F5	Col	2	SA	F	LOS-A	00:11	00:14
Lam Na Rai	2219	200	33.9	F6	Col	2	SA	F	LOS-A	00:25	00:31
Lam Na Rai	2243	100	27.5	F6	Col	2	SA	F	LOS-A	00:20	00:25
Sara Buri	2243	200	45.0	F6	Col	2	SA	F	LOS-A	00:33	00:42
Lam Na Rai	2247	200	10.6	F6	Col	2	SA	F	LOS-A	00:07	00:09
Lam Na Rai	2247	300	23.3	F6	Col	2	SA	F	LOS-A	00:17	00:21
Lam Na Rai	2256	100	38.3	F3	Art	2	SST	F	LOS-A	00:28	00:35
Lam Na Rai	2321	100	34.8	F6	Col	2	SA	G/F	LOS-A	00:26	00:26
Chai Nat	3010	100	13.5	F6	Col	2	DBST	F	LOS-A	00:10	00:12
Lop Buri	3017	100	47.8	F3	Col	2	PM	G/F	LOS-A	00:35	00:35
Lop Buri	3017	201	26.9	F3	Col	2	SST	G/F	LOS-A	00:20	00:20
Lop Buri	3022	100	19.6	F3	Col	2	PM	F/P	LOS-B	00:14	00:29
Lop Buri	3023	100	5.5	F4	Col	2	PM	F/P	LOS-B	00:04	00:08
Lop Buri	3028	101	18.0	F4	Art	2	DBST	G/F	LOS-A	00:13	00:13
Lop Buri	3028	102	1.1	F4	Art	2	DBST	G/F	LOS-A	00:00	00:00
Lop Buri	3030	101	1.4	F4	Art	2	DBST	G/F	LOS-A	00:01	00:01
Lop Buri	3030	102	9.7	F4	Art	2	DBST	G/F	LOS-A	00:07	00:07
Lop Buri	3032	100	32.4	F4	Col	2	DBST	G/F	LOS-B	00:24	00:28
Lop Buri	3032	201	0.3	F4	Art	2	DBST	F	LOS-A	00:00	00:00
Suphan Buri	3032	202	10.3	F3	Art	2	DBST	F	LOS-B	00:07	00:11
Lop Buri	3034	100	16.4	F4	Art	2	PM	F	LOS-B	00:12	00:18
Suphan Buri	3039	100	18.4	F4	Art	2	DBST	F	LOS-C	00:13	00:22
Suphan Buri	3039	201	43.3	F3	Art	2	DBST	F	LOS-B	00:32	00:48
Chai Nat	3039	301	13.6	F3	Art	2	AC	P	LOS-B	00:10	00:40
Chai Nat	3039	302	7.0	F3	Art	2	UPM	G/F	LOS-A	00:05	00:05
Chai Nat	3039	400	3.6	F3	Art	2	AC	G	LOS-B	00:02	00:03
Sara Buri	3041	100	11.0	F4	Col	2	UPM	P	LOS-A	00:08	00:27
Sara Buri	3041	200	7.5	F4	Col	2	DBST	G/F	LOS-A	00:05	00:05
Sara Buri	3041	300	14.8	F4	Col	2	DBST	F	LOS-A	00:11	00:13
Sara Buri	3045	100	6.6	F4	Col	2	DBST	F	LOS-A	00:04	00:06
Sara Buri	3048	100	14.7	F3	Col	2	UPM	F/P	LOS-A	00:11	00:18
Ayutthaya	3056	100	12.7	F4	Col	2	PM	F	LOS-A	00:09	00:11
Ayutthaya	3062	100	7.3	F4	Col	2	UPM	F	LOS-A	00:05	00:06
Ayutthaya	3063	102	0.4	F4	Col	2	DBST	F	LOS-B	00:00	00:00
Ayutthaya	3064	100	10.5	F4	Col	2	DBST	F	LOS-C	00:07	00:12
Ayutthaya	3064	200	21.7	F4	Col	2	SA	F	LOS-A	00:16	00:20
Lop Buri	3064	300	0.4	F6	Col	2	SA	F	LOS-A	00:00	00:00
Ayutthaya	3111	200	29.3	F2	Col	2	AC	G	LOS-B	00:21	00:26
Chai Nat	3183	101	18.7	F3	Col	2	UPM	G/F	LOS-B	00:14	00:16
Chai Nat	3184	100	14.0	F5	Col	2	SA	G/F	LOS-F	00:10	00:21
Ayutthaya	3195	102	32.8	F4	Art	2	DBST	F	LOS-B	00:24	00:36
Chai Nat	3196	100	42.6	--	Col	2	Paved	F	LOS-A	00:31	00:39
Lop Buri	3196	200	29.6	F4	Col	2	SST	F/P	LOS-A	00:22	00:36
Lop Buri	3196	300	0.0	--	Art	2	--	F	LOS-A	00:00	00:00
Chai Nat	3211	100	49.0	F6	Art	2	DBST	P	LOS-A	00:36	02:02
Sara Buri	3225	100	9.1	F4	Col	2	DBST	F/P	LOS-A	00:06	00:11
Sara Buri	3226	100	8.4	F4	Col	2	ST	F	LOS-A	00:06	00:07
Chai Nat	3251	100	32.8	F5	Col	2	SA	F/P	LOS-A	00:24	00:41
Chai Nat	3252	100	10.0	F5	Col	2	SA	F/P	LOS-A	00:07	00:12
Ayutthaya	3263	100	14.8	F3	Art	2	AC	G	LOS-B	00:11	00:13
Ayutthaya	3263	201	21.5	F3	Art	2	AC	G	LOS-A	00:16	00:16
Ayutthaya	3267	101	26.5	F4	Art	2	AC	F	LOS-B	00:19	00:29
Chai Nat	3285	100	10.0	--	Col	2	SA	G/F	LOS-A	00:07	00:07

Adjusted Link Travel Times for National and Provincial Hwy Network - 27 March 1990

District	Route	Sect	Length	Func Class	UCR Class	Surf Lns	Type	Cond	L.O.S.	Free Tvl Time 80	Impeded Time
Lop Buri	3303	100	10.8	F4	Art	2	DBST	F/P	LOS-B	00:08	00:16
Ayutthaya	3309	100	7.2	F4	Col	2	AC	G	LOS-B	00:05	00:06
Ayutthaya	3309	200	8.1	F4	Col	2	AC	G	LOS-B	00:06	00:07
Chai Nat	3326	100	21.6	--	Col	2	SA	G/F	LOS-A	00:16	00:16
Lam Na Rai	3326	200	35.4	F6	Col	2	SA	F	LOS-A	00:26	00:33
Chai Nat	3353	100	21.7	--	Col	2	SA	G/F	LOS-A	00:16	00:16
Chai Nat	3354	100	17.0	F6	Col	2	SA	G/F	LOS-A	00:12	00:12
Ayutthaya	3418	100	6.5	F3	Col	2	AC	G	LOS-A	00:04	00:04
Ayutthaya	3419	100	1.6	F3	Col	2	DBST	G	LOS-A	00:01	00:01



Table A3-4: Passenger Boardings and Alightings in Railway in the UCR

Province	Line	Station	1987	1987
			Out Bound	In Bound
Ayutthaya	Trunk	Chiang Rak Noi	57,114	54,692
Ayutthaya	Trunk	Klong Puttra	52,214	50,107
Ayutthaya	Trunk	Bang Pa-in	272,221	294,777
Ayutthaya	Trunk	Bang Pho	0	10,748
Ayutthaya	Trunk	Ayutthaya	1,211,355	1,219,319
Ayutthaya	Trunk	Ban Ma	8,939	7,364
Ayutthaya	Trunk	Mab Pra Chan	64,302	72,119
Ayutthaya	Trunk	Ban Don Klang	0	22,306
Ayutthaya	Trunk	Phra Kew	86,945	85,972
Ayutthaya	Junction	Ban Phachi	603,884	610,187
Ayutthaya	Northern	Non Wi Wat	83,621	103,630
Ayutthaya	Northern	Tha Rua	498,536	510,115
Ayutthaya	East/Northeast	Nong Kui	26,052	22,865
Sara Buri	East/Northeast	Ban Mor	287,092	278,053
Sara Buri	East/Northeast	Nong Doan	160,106	166,750
Sara Buri	East/Northeast	Ban Klab	99,438	98,755
Sara Buri	East/Northeast	Nong Saeng	123,167	119,550
Sara Buri	East/Northeast	Nong Sida	41,442	43,203
Sara Buri	East/Northeast	Ban Pok Pek	19,722	16,579
Sara Buri	East/Northeast	Sara Buri	327,419	358,322
Sara Buri	East/Northeast	Nong Bua	11,927	6,777
Sara Buri	Junction	Kaeng Khoi	510,891	417,150
Sara Buri	Northeastern	Ban Chong Tai	1,125	688
Sara Buri	Northeastern	Kao Kok	1,014	3,560
Sara Buri	Northeastern	Kao Hin Dad	5,196	7,289
Sara Buri	Northeastern	Hin Son	37,009	30,900
Sara Buri	Northeastern	Kao Soong	6,489	15,158
Sara Buri	Eastern	Tob Kwang	8,681	5,555
Sara Buri	Eastern	Mab Ka Bao	8,747	9,135
Sara Buri	Eastern	Pa Sa Ded	5,680	5,986
Sara Buri	Eastern	Hin Lab	38,479	38,510
Sara Buri	Eastern	Muak Lek	88,574	45,827
Lop Buri	Northern	Ban Pha Wai	14,167	9,303
Lop Buri	Northern	Lop Buri	1,190,555	1,055,958
Lop Buri	Northern	Tha Kae	3,576	2,146
Lop Buri	Northern	Coke Ka Team	31,204	30,195
Lop Buri	Northern	Nong Tao	18,057	16,068
Lop Buri	Northern	Nong Trai Kao	11,497	4,587
Lop Buri	Northern	Ban Mi	285,730	297,569
Lop Buri	Northern	Hui Kew	11,025	6,474
Lop Buri	Northern	Phai Yai	23,510	30,798
Lop Buri	Eastern	Kaeng Sueten	27,319	18,738
Lop Buri	Eastern	Ban Nong Bau	759	1,499
Lop Buri	Eastern	Ma Nao Whan	5,395	10,667
Lop Buri	Eastern	Coke Sa Loong	41,969	18,824
Lop Buri	Eastern	Coke Makam Pom	0	6,157
Lop Buri	Eastern	Sura Narai	7,833	7,535
Lop Buri	Eastern	Khao Yai Ka Ta	197	736
Lop Buri	Eastern	Talad Lam Na Ra	0	10,496
Lop Buri	Eastern	Lam Na Rai	32,969	33,858
Lop Buri	Eastern	Ban Koa Rang	1,110	3,283
Lop Buri	Eastern	Paen Din Thong	559	341
Lop Buri	Eastern	Ban Chong Ko	711	2,537
Lop Buri	Eastern	Coke Klee	3,758	2,392
			Out Bound	In Bound
		Total	6,459,281	6,302,109



**APPENDIX 4. LIST OF STUDY REPORTS AND PAPERS**



## APPENDIX 4. LIST OF STUDY REPORTS AND PAPERS

### 1. REPORTS

Design for the Study

Inception Report

Inception Report: Amendment

Progress Report

Interim Report

Executive Summary

Master Plan Report

Technical Reports

- Vol. 1 Spatial Framework for Development
- Vol. 2 Environmental Management
- Vol. 3 Land Use and Agricultural Development
- Vol. 4 Industrial Development
- Vol. 5 Distribution
- Vol. 6 Water Resources Management
- Vol. 7 Transportation
- Vol. 8 Economic Environment
- Vol. 9 Local Government Finance
- Vol. 10 Energy
- Vol. 11 Landsat Analysis

Draft Final Report

Executive Summary

Master Plan Report

Sector Reports

- Vol. 1 Spatial Framework and Network for Development
- Vol. 2 Urban Management
- Vol. 3 Environmental Management
- Vol. 4 Water Resource Management, Agricultural Development and Land Use Management
- Vol. 5 Industrial Development
- Vol. 6 Distribution and Marketing
- Vol. 7 Energy
- Vol. 8 Social Development in Rural Economies
- Vol. 9 International and National Economic Environment
- Vol. 10 Human Resource Development
- Vol. 11 Landsat Analysis

Final Report

Executive Summary

Master Plan Report

Sector Reports

- Vol. 1 Spatial Framework and Network for Development
- Vol. 2 Urban Management
- Vol. 3 Environmental Management

- Vol. 4 Water Resource Management, Agricultural Development and Land Use Management
- Vol. 5 Industrial Development
- Vol. 6 Distribution and Marketing
- Vol. 7 Energy
- Vol. 8 Social Development in Rural Economies
- Vol. 9 International and National Economic Environment
- Vol. 10 Human Resource Development
- Vol. 11 Landsat Analysis

## 2. PAPERS

### Papers for Seminar, Sara Buri, November 2-3, 1989

1. Development Framework, Strategies, and Production
2. Urban, Land Use and Infrastructure Development
3. Critical Issues for Development Management

### Papers for Seminar, Pattaya, July 28-29, 1990

1. Agriculture and Water Resources: Policies and Programs
2. Industry and Energy: Policies and Programs
3. Urbanization and Infrastructure Facilities: Policies and Programs
4. Development Administration and Environmental Management: Policies and Programs

## **APPENDIX 5. STAFF INPUT**





## APPENDIX 5. STAFF INPUT

### Members of UCR Study Project Staff of NESDB

1. Mr. Vithya Siripongse Deputy Secretary-General and Project Director
2. Dr. Utis Kaothien Director of Urban Development Coordination Division and Projector Advisor
3. Mr. Manu Sattayateva Director of Central Region Development Center and Project Manager
4. Mr. Weera Sritaranondha CRDC Official and Counterpart Team Member
5. Mr. Teerapat Kaiyarit - do -
6. Mr. Numthip Pattanaskul - do -
7. Mrs. Somsiri Protitikul - do -
8. Mr. Sumeth Srisangthaisuk - do -
9. Mr. Kiattikul Lueangwattana UDCD Official and Counterpart Team Member
10. Ms. Piyachat Sonkom CRDC Official and Counterpart Team Member
11. Mr. Poolwit Bua-on - do -
12. Mr. Mana Ligkachai - do -
13. Mr. Sumitra Pooltong - do -
14. Mr. Chokdee Srisomboon - do -

### Members of JICA Advisory Committee for UCR Study

1. Mr. Koichiro Katsurai Chairman of the Committee, Institute for International Cooperation, JICA
2. Mr. Koichi Nonaka Member of the Committee, Institute of Developing Economies
3. Mr. Koji Taniguchi Member of the Committee, IDE
4. Dr. Kunitoshi Sakurai Member of the Committee, IFIC, JICA

5. Mr. Atsushi Matsumoto Member of the Committee and Officer in Charge, JICA

#### TEAM EXPERTS

1. Dr. Jinichiro Yabuta Leader, Regional Development, IDCJ
2. Dr. Masahiko Honjo Advisor, Regional Development, IDCJ
3. Mr. Yoshinobu Nomura Deputy Leader, Regional Development, PCI
4. Dr. Masahiro Nakashima Water Resource and Environmental Management, IDCJ
5. Mr. Tadashi Kume Land Use and Environmental Management, PCI
6. Mr. Toru Ishibashi Industrial Development, ECFA
7. Dr. Michiaki Hosono Agricultural Development, PCI
8. Mr. Katsuhide Nagayama Spatial Framework for Development, Urban and Environmental Management, PCI
9. Mr. Atsushi Saito Distributional Marketing, PCI
10. Dr. Charit Tingsabadh National Economic Environment, CUSRI
11. Mr. James M. McBride Transportation Development, PCI
12. Dr. Masayuki Doi Transportation Development, IDCJ
13. Ms. Abha Sirivongs Na Ayuthaya Water Management Institution, CUSRI
14. Mr. Masamichi Ogawa Industrial Development, IDCJ

- |     |                     |   |
|-----|---------------------|---|
| 15. | Mr. Masahiro Hamano | Local Authority Finance,<br>SOMC                            |
| 16. | Mr. Masumi Ishida   | Energy and Regional Economy,<br>IDCJ                        |
| 17. | Mr. Kazuto Yamada   | Environmental Management,<br>PCI                            |
| 18. | Mr. Kenji Domoto    | International and National<br>Economic Environment,<br>IDCJ |
| 19. | Mr. Toshiyuki Imai  | Private Investment and Industrial<br>Development,<br>IDCJ   |

CUSRI:	Chulalong Korn University Social Research Institute
ECFA:	Engineering Consulting Firm Association
IDCJ:	International Development Center of Japan
PCI:	Pacific Consultants International
SOMC:	Shinko Overseas Management Consultant

#### CO-EXPERTS

- |    |                        |   |
|----|------------------------|---|
| 1. | Dr. Surin Setamamit    | Environmental Management,<br>Chulalong Korn University                              |
| 2. | Dr. Chamnien Boonma    | Agricultural Economy,<br>Kasetsart University                                       |
| 3. | Dr. Kamol Sudaprasert  | Human Resource Development,<br>Nonformal Education Department                       |
| 4. | Dr. Jacques Amoyot     | Social Development in Rural Economies,<br>Chulalong Korn University                 |
| 5. | Dr. Wisoot Wiseschinda | Social Development in Rural<br>Economies,<br>Chulalong Korn University              |
| 6. | Mr. Suvit Vibulsresth  | Landsat Analysis,<br>Thailand Remote Sensing Center                                 |
| 7. | Mr. Satoshi Machida    | Landsat Analysis,<br>Pacific Consultants Co. Ltd.                                   |
| 8. | Dr. Krai Tungsonga     | Survey of Industry, Distribution and<br>Marketing,<br>Asian Engineering Consultants |

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|-----|----------------------------------|---|
| 9.  | Dr. Kraiyudht<br>Dhiratayakinant | Local Government Financing,<br>Chulalong Korn University          |
| 10. | Dr. Jesada Kaewkulaya            | Water Management,<br>Kasarsart University                         |
| 11. | Dr. Daranee Thavinpipatkul       | Urban and Human Settlement Analysis,<br>Chulalong Korn University |
| 12. | Ms. Shujit Pongtong              | Tourism Development,<br>Tourism Authority of Thailand             |

**ADMINISTRATIVE SUPPORT STAFF**

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|----|---------------------|---|
| 1. | Mr. Yasunobu Kawato | General Manager, Planning Division,<br>IDCI |
| 2. | Mr. Tsuneco Sakano  | Resident Representative,<br>PCI Bangkok     |



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