# APPENDIX 3. PROFILE OF TRANSPORT FACILITIES AND SERVICE LEVEL

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

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

District Multi-lane Road		Sect	Length	Class	UCR Class	Lns	Type	Cond	Width	Shldr Width	AD1	ÂQŤ.	×	Hax	Xax	Max	Hax		1.0.5.
Pathum Thani Ayutthaya Ayutthaya Sara Buri Sara Buri Sara Buri	- 1 1 1 1	201 202 301 302 400	19.1 17.1 14.8 26.6 17.2	P0 P0 P0 P0 P0	Art Art Art Art Art	44444	40 40 40 40	F/P F G F G/F	45.9 45.9 45.9 45.9 45.9	8.2 8.2 8.2 8.2 8.2 8.2	43,757 37,866 24,263 19,122 9,758	21,800 17,960 14,165 9,026 4,879	1282 1302 1212 1304 1280	423 430 409 430 422	641 651 606 652 640	833 847 788 848 832	1025 1042 970 1043 1024	1500 1500 1500 1500 1500	LOS+C LOS-8 LOS-A LOS-A LOS-A
2-Lene Roads Sara Buri Lop Buri Lop Buri Chai Nat Chai Nat Chai Nat Chai Nat Chai Nat Chai Nat Chai Nat Sara Buri Sara Buri Sara Buri Lan Na Rai Lan Na Ra	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	303 5000 60000 6000 6000 6000 6000 6000 6000 6000 6000 6000 6000	$\begin{array}{c} 2,8,3,9\\ 3,5,4,2,2,0,3,3\\ 5,4,2,2,0,3,3\\ 5,4,2,2,0,3,3\\ 5,4,2,2,0,3,3\\ 5,4,2,2,2,3,3,5,4,2,3,2,3\\ 5,4,2,2,2,3,3,5,4,2,3,2,3,3\\ 5,4,2,3,2,3,3,5,4,2,3,2,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3$	8999489994949999999999999999999999933333333	Art Art Art Art Art Art Art Art Art Art	~~~~~~~~~~~~~~~~~	SACM DBST DBST DBST SA ACCA SA DBST SA ACCA SA ACA SA ACA SA ACA SA ACA SA ACA SA ACA SA ACA SA SA C		$\begin{array}{c} 9,7\\ 7,19,7,4\\ 19,7,7\\ 19,7,7\\ 19,7,7\\ 21,3,7\\ 21,3,7\\ 21,0,7\\ 22,0,0\\ 23,0,0\\ $	995322223322222222222222222222222222222	0 07 4, 557 1, 789, 92 2, 710 0, 0, 0, 0, 2, 710 1, 226 2, 915 1, 226 1, 226	600 600 1,546 546 546 547 60 6,884 6,574 6,655 6,884 6,655 6,655 6,655 6,655 6,455 1,392 2,094 1,465 6,255 1,392 2,094 1,455 5,200 1,543 1,502 5,200 1,502 5,500 5,500 5	0.76 0.77 0.50 0.77 0.50 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.77 0.50 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.7	120 183 177 185 185 185 185 185 185 185 185	215 329 210 387 210 387 210 387 210 387 210 387 211 387 211 397 211 397 211 397 211 397 211 397 211 397 211 397 211 397 211 397 211 397 211 211 211 211 211 211 211 21	343 524 4616 4626 4626 4626 4626 4627 46	5111 7800 9177 1,044 6457 7478 1,044 6457 7472 1,762 1,772 1,762 1,772 1,772 1,772 1,772 1,772 1,772 1,772 1,773 1,775 1,	944 1,702 9,217 1,303 1,448 1,182 9,217 1,352 1,448 1,182 1,520 1,52	L03-A L03-C L03-C L03-A L0

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### of service Calculations for the UCR Highways .

· .		UCR Observed			
Number	Route	Rghns Factor	Rec Speed	Des Spd	Ratio
- 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%

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l Der I	ays one to	Congestion		·	
LOS	V/C	Speed	Time	Delays	Due to
i -		mph	ratio	Road Con	ditions
LOS-A	0.00	50	100.00%	G	100%
LOS-B	0,36	42	119.05%	G/F	100%
LOS-C	0.54	39	128.21%	j F	125%
LOS-D	0.71	36	138.89%	F/P	167%
LOS-E	0.87	32	156.25%	P	333%
LOS-F	1.00	25	200.00%	i	

### Table A3-3:

### Adjusted Link Travel Times for National and Provincial Highway Network (27 March, 1990)

District         Route         Sect         Length Class         Class         Lins         Type Cond L.O.S.         80         Time           Multi-lane Roads         Pathum Thani         1         201         19.1         PD         Art         4         AC         F/         D0:14         00:30           Ayutthay         1         301         14.8         PD         Art         4         AC         F         LOS-A         00:12         00:19           Ayutthay         1         300         26.6         PD         Art         4         AC         F         LOS-A         00:12         00:12           Sara Buri         1         400         17.2         PD         Art         2         UPM         F         LOS-A         00:02         00:22         00:22           Lop Buri         1         600         35.9         P3         Art         2         UPM & F         LOS-B         00:02         00:30           Chai Nat         1         800         24.9         P3         Art         2         RSF         F         LOS-A         00:02         00:30           Chai Nat         1         800         22.2         P1												
Pathum Thani         1         201         19.1         PD         Art         4         AC         F/P         LOS-C         00:14         00:30           Ayutthaya         1         301         14.8         PD         Art         4         AC         F         LOS-B         00:14         00:11           Sara Buri         1         300         26.6         PD         Art         4         AC         F         LOS-A         00:17         00:12           Sara Buri         1         303         2.8         P3         Art         2         VPM         F         LOS-A         00:102         00:02         00:02           Lop Buri         1         600         35.9         P3         Art         2         VPM         F         LOS-A         00:06         00:07           Chai Nat         1         800         14.1         P3         Art         2         PM G/F         LOS-B         00:16         00:16         00:17           Chai Nat         1         800         12.2         P1         Art         2         AC         F         LOS-B         00:16         00:17           Sara Buri         2         100	District	Route	Sect	Length	Func Class	ÜCR Class	Lns	Surf Type	Cond	L.O.S.	Free Tvl Time 80	Impeded Time
Pathum Thani         1         201         19.1         PD         Art         4         AC         F/P         LOS-C         00:14         00:30           Ayutthaya         1         301         14.8         PD         Art         4         AC         F         LOS-B         00:14         00:11           Sara Buri         1         300         26.6         PD         Art         4         AC         F         LOS-A         00:17         00:12           Sara Buri         1         303         2.8         P3         Art         2         VPM         F         LOS-A         00:102         00:02         00:02           Lop Buri         1         600         35.9         P3         Art         2         VPM         F         LOS-A         00:06         00:07           Chai Nat         1         800         14.1         P3         Art         2         PM G/F         LOS-B         00:16         00:16         00:17           Chai Nat         1         800         12.2         P1         Art         2         AC         F         LOS-B         00:16         00:17           Sara Buri         2         100			•••••					u u'ı				
Ayuthaya         1         202         17.1         PD         Art         4         AC         F         LOS-B         00:12         00:19           Ayuthaya         1         301         16.8         PD         Art         4         AC         F         LOS-A         00:19         00:24           Sara Buri         1         400         17.2         PD         Art         4         AC         G         LOS-A         00:12         00:12           2-Lane Roads	Multi-lane R	cads					,	ала А				a Frank an
Ayuthaya         1         202         17.1         PD         Art         4         AC         F         LOS-B         00:12         00:19           Ayuthaya         1         301         16.8         PD         Art         4         AC         F         LOS-A         00:19         00:24           Sara Buri         1         400         17.2         PD         Art         4         AC         G         LOS-A         00:12         00:12           2-Lane Roads	Budling Thread		204	10 1		Ant	· · · .	AC	F/D	108-0	00-14	00.30
Ayuthay         1         Sol         14.8         PD         Art         4         AC         G         LOS-A         O0:11         O0:11           Sara Buri         1         302         26.6         PD         Art         4         AC         F         LOS-A         00:12         00:12           2:Lane Roads         1         400         17.2         PD         Art         4         AC         G/F         LOS-A         00:12         00:12           2:Lane Roads         5         Sara Buri         1         500         29.5         P3         Art         2         PM         G         LOS-C         00:26         00:30           Chai Nat         1         600         35.9         P3         Art         2         DMF         LOS-A         00:00         00:30           Chai Nat         1         600         24.9         P3         Art         2         DMF         LOS-A         00:00         00:10         00:12           Chai Nat         1         900         24.9         P3         Art         2         DMS-B         00:00         00:17         00:16           Sara Buri         2         101         36.1												
Ayer         Byor         Byor <th< td=""><td>•</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>. î -</td><td></td><td>1</td><td>and the second second</td><td>and the second second</td></th<>	•						1	. î -		1	and the second	and the second second
Sara Buri         1         400         17.2         PD         Art         4         AC         G/F         LOS-A         00:12         00:12           2-Lane Roads           Sara Buri         1         303         2.6         P3         Art         2         UPH         F         LOS-A         00:02         00:02           Lop Buri         1         500         25.5         P3         Art         2         PM         G         LOS-C         00:22         00:26         00:53           Lop Buri         1         600         35.5         P3         Art         2         DB-B         00:00         00:130           Chai Nat         1         000         24.5         P3         Art         2         PM         G/F         LOS-A         00:00         00:130           Chai Nat         1         1001         25.5         P3         Art         2         AC         F         LOS-A         00:00         00:19         Sara Buri         2         101         3.6         P1         Art         2         AC         F         LOS-A         00:00         00:00         00:00         00:00         00:00         00:00         00:	•											1
2-Lane Roads           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         UPM         F/         LOS-C         00:22         00:23           Lop Buri         1         600         35.9         P3         Art         2         UPM         F/P         LOS-B         00:26         00:30           Chai Nat         1         801         B.2         P1         Art         2         AC         F         LOS-A         00:06         00:07           Chai Nat         1         800         24.9         P3         Art         2         PM G/F         LOS-A         00:19         00:19           Sara Buri         2         101         36.1         P1         Art         2         AC         F         LOS-A         00:16         00:22         00:20           Sara Buri         2         200         22.2         P1         Art         2         AC         F         LOS-A         00:16         00:00         00:00         00:00         00:00 </td <td></td>												
Sara Buri         1         303         2.8         P3         Art         2         UPH         F         LOS-A         00:02         00:02           Lop Buri         1         500         29.5         P3         Art         2         UPH         F/P         LOS-B         00:22         00:23           Chai Nat         1         600         35.9         P3         Art         2         DBST         G/F         LOS-A         00:26         00:23           Chai Nat         1         801         B.2         P1         Art         2         AC         F         LOS-A         00:06         00:013           Chai Nat         1         900         24.9         P3         Art         2         PM         G/F         LOS-B         00:10         00:12         00:13           Sara Buri         2         101         36.1         P1         Art         2         PAT         C         F         LOS-A         00:10         00:05           Sara Buri         2         100         1.1         P1         Art         2         AC         F         LOS-A         00:00         00:01           Lam Na Rai         21												
Sara Buri         1         303         2.8         P3         Art         2         UPH         F         LOS-A         00:02         00:02           Lop Buri         1         500         29.5         P3         Art         2         UPH         F/P         LOS-B         00:22         00:23           Chai Nat         1         600         35.9         P3         Art         2         DBST         G/F         LOS-A         00:26         00:23           Chai Nat         1         801         B.2         P1         Art         2         AC         F         LOS-A         00:06         00:013           Chai Nat         1         900         24.9         P3         Art         2         PM         G/F         LOS-B         00:10         00:12         00:13           Sara Buri         2         101         36.1         P1         Art         2         PAT         C         F         LOS-A         00:10         00:05           Sara Buri         2         100         1.1         P1         Art         2         AC         F         LOS-A         00:00         00:01           Lam Na Rai         21	2-Lane Roads								. '			** <b>-</b>
Buri         1         500         22.5         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         00:326           Chai Nat         1         801         B.2         P1         Art         2         DET         G/F         LOS-A         00:06         00:07           Chai Nat         1         800         21.0         P1         Art         2         AC         F         LOS-A         00:06         00:22           Chai Nat         1         1001         25.5         P3         Art         2         DBST         G/F         LOS-A         00:10         00:22           Sara Buri         2         101         36.1         P1         Art         2         AC         F         LOS-A         00:10         00:00         00:00           Sara Buri         2         301         0.5         P1         Art         2         AC         F         LOS-A         00:00         00:01           Lam Na Rai         21         100 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
Lop Buri         1         600         35.9         P3         Art         2         UPM         F/P         LOS-B         00:26         00:153           Chai Nat         1         700         41.2         P3         Art         2         DBST         G/F         LOS-A         00:30         00:30           Chai Nat         1         802         12.0         P1         Art         2         AC         F         LOS-A         00:06         00:173           Chai Nat         1         900         24.9         P3         Art         2         DBST         G/F         LOS-A         00:19         00:19           Sara Buri         2         102         5.4         P1         Art         2         AC         F         LOS-A         00:16         00:27         00:46           Sara Buri         2         200         22.2         P1         Art         2         DEST         F         LOS-A         00:00         00:00           Chai Nat         11         100         41.3         P1         Art         2         DEST         F         LOS-A         00:00         00:01           Lam Na Rai         21         100	Sara Buri	1	303	2.8	Р3	Art ·		- 1 . I .	F.	LOS-A	00:02	<u>-</u>
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         801         2.2         P1         Art         2         AC         F         LOS-B         00:18         00:22           Chai Nat         1         1001         25.5         P3         Art         2         PM         G/F         LOS-B         00:19         00:19           Sara Buri         2         102         5.4         P1         Art         2         AC         F         LOS-A         00:10         00:00           Sara Buri         2         200         22.2         P1         Art         2         AC         F         LOS-A         00:00         00:00           Sara Buri         2         301         0.5         P1         Art         2         AC         F         LOS-A         00:00         00:00           Lam Na Rai         21         100         1.1         P1 <td< td=""><td>Lop Buri</td><td>1</td><td>500</td><td>29.5</td><td>-P3</td><td>Art</td><td>2</td><td></td><td>G</td><td>LOS-C</td><td>00:22</td><td></td></td<>	Lop Buri	1	500	29.5	-P3	Art	2		G	LOS-C	00:22	
Chai Nat       1       801       8.2       P1       Art       2       AC       F       LOS-A       00:06       00:07         Chai Nat       1       800       12.0       P1       Art       2       AC       F       LOS-B       00:09       00:13         Chai Nat       1       900       24.9       P3       Art       2       DBST       G/F       LOS-B       00:14       00:19         Sara Buri       2       101       36.1       P1       Art       2       AC       F       LOS-D       00:04       00:05         Sara Buri       2       200       22.2       P1       Art       2       AC       F       LOS-A       00:00       00:00         Sara Buri       2       301       0.5       P1       Art       2       DOS-A       00:00       00:010         Chai Nat       11       100       41.3       P1       Art       2       DOS-A       00:00       00:010         Sara Buri       21       000       30.4       P2       Art       2       AC       F       LOS-A       00:00       00:01         Lam Na Rai       21       300       30.4	Lop Buri	1	600	35.9	P3	Art	2	UPM	F/P	LOS-B	00:26	00:53
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       00:19       00:12         Chai Nat       1       1001       25.5       P3       Art       2       DBST       G/F       LOS-B       00:19       00:19         Sara Buri       2       102       5.4       P1       Art       2       AC       F       LOS-A       00:10       00:10         Sara Buri       2       100       5.7       P1       Art       2       AC       F       LOS-A       00:10       00:00       00:00       00:00       00:01       00:38       Sara Buri       21       100       1.1       P1       Art       2       AC       G/F       LOS-A       00:00       00:00       00:01       0:38       Sara Buri       21       000       39.2       P2       Art       2       AC       F       LOS-A       00:02       00:02       00:02       00:02       00:02       00:02       00:02       00:02       00:02       00:02       00:02	Chai Nat	1	700	41.2	P3	Art	2	DBST	G/F	LOS-A	이 가슴 가슴 집안 다 가슴	N 15 M 10
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-A         00:00         00:00           Sara Buri         2         200         22.2         P1         Art         2         AC         F         LOS-A         00:00         00:00           Chai Nat         11         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         F         LOS-A         00:22         00:24         02         00:18           Lam Na Rai         21         200         30.4         P2         Art         2         AC         F         LOS-A         00:22         00:24         02         00:24         02	Chai Nat	1	801	8.2	P1	Art	2	AC	F	LOS-A	and the second	
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-A         00:14         00:16         00:27           Sara Buri         2         102         5.4         P1         Art         2         AC         F         LOS-A         00:16         00:20           Sara Buri         2         301         0.5         P1         Art         2         AC         F         LOS-A         00:10         00:30         00:30           Sara Buri         21         100         1.1         P1         Art         2         AC         F         LOS-A         00:00         00:01           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         F         LOS-A         00:02         00:21         00:21           Ayutthaya	Chai Nat	1				Art						
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         00:10         00:00           Sara Buri         2         200         22.2         P1         Art         2         AC         F         LOS-A         00:10         00:00         00:00           Chai Nat         11         100         1.1         P1         Art         2         DEST         F         LOS-A         00:00         00:00         00:01           Lam Na Rai         21         200         20.6         P2         Art         2         AC         F         LOS-A         00:12         00:22         00:28           Lam Na Rai         21         400         39.2         P2         Art         2         AC         F         LOS-A         00:22         00:24         00:24         00:24         00:22         00:22         00:24         00:24         00:24         00:22         00:22         00:24         00:24         00:25         00:24         00:24	Chai Nat	1				Art		- 1 J 1		1. The second		
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         00:00           Chai Nat         11         100         1.3         P1         Art         2         AC         F         LOS-A         00:30         00:38           Sara Buri         21         100         1.1         P1         Art         2         AC         F         LOS-A         00:30         00:38           Sara Buri         21         100         1.1         P1         Art         2         AC         F         LOS-A         00:30         00:38           Lam Na Rai         21         300         30.4         P2         Art         2         AC         F         LOS-A         00:20         00:34           Ayutthaya         32         401         16.7         P1         Art         2         AC         F         LOS-A         00:00         00:00           Ayutthaya         32         601         0.4         P	Chai Nat								-		and a second	
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           Chi Nat         11         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         F         LOS-A         00:20         00:01           Lam Na Rai         21         200         30.4         P2         Art         2         AC         F         LOS-A         00:22         00:28           Lam Na Rai         21         400         30.2         P2         Art         2         AC         F         LOS-A         00:02         00:02           Ayutthaya         32         602         31.0         P1         Art         2         AC         F         LOS-D         00:23         00:40           Lam Na         32         601         0.4 <td< td=""><td>Sara Buri</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>and the second second</td><td></td></td<>	Sara Buri										and the second	
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         F         LOS-A         00:22         00:28           Lam Na Rai         21         400         39.2         P2         Art         2         AC         F         LOS-A         00:22         00:24           Ayuthaya         32         401         16.7         P1         Art         2         AC         F         LOS-A         00:02         00:23         00:40           Ayuthaya         32         601         0.4         P1         Art         2         AC         G         LOS-D         00:23         00:40           Ayuthaya         32         602								1.1				10 A.
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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         00:23           Ayuthaya         32         401         16.7         P1         Art         2         AC         F         LOS-A         00:02         00:23         00:24           Ayuthaya         32         600         31.0         P1         Art         2         AC         F         LOS-A         00:00         00:00           Lop Buri         32         600         36.6         P1         Art         2         AC         G         LOS-A         00:30         00:44           Chai Nat         32         601         0.4         P1         Art         2         AC         G         LOS-A         00:34         00:34           Chai Nat         32         801												
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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-D         00:02         00:40           Ayutthaya         32         601         0.4         P1         Art         2         AC         F         LOS-D         00:23         00:40           Ayutthaya         32         601         0.4         P1         Art         2         AC         F         LOS-D         00:28         00:40           Chai Nat         32         602         38.6         P1         Art         2         AC         G         LOS-D         00:28         00:41           Chai Nat         32         801         46.4         P1         Art         2         AC         G         LOS-A         00:19         00:32           Lam Na Rai         205         100         19.2							· · · ·		1.1		<ul> <li>An opposite the state of the state</li> </ul>	
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-D       00:02       00:02         Ayutthaya       32       500       31.0       P1       Art       2       AC       F       LOS-D       00:23       00:00         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       LOS-D       00:28       00:40         Chai Nat       32       802       12.5       P1       Art       2       AC       G       LOS-C       00:32       00:41         Sara Buri       33       101       26.4       P3       Art       2       AC       F/P       LOS-B       00:19       00:32         Lam Na Rai       205       200       29.0       S3       Art       2       PM       F       LOS-A       00:14       00:32								1.1.1		1 A A A A A A A A A A A A A A A A A A A	2	
Ayuthaya       32       402       3.1       P1       Art       2       AC       F       LOS-A       00:02       00:02         Ayuthaya       32       500       31.0       P1       Art       2       AC       F       LOS-A       00:02       00:02         Ayuthaya       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       LOS-A       00:02       00:01         Chai Nat       32       801       46.4       P1       Art       2       AC       G       LOS-A       00:34       00:34         Chai Nat       32       801       26.4       P1       Art       2       AC       G       LOS-C       00:34       00:34         Chai Nat       32       802       12.5       P1       Art       2       AC       F/P       LOS-B       00:19       00:35         Lam Na Rai       205       100       19.2       S3       Art       2       PM       F       LOS-A       00:14       00:32												
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Ayutthaya3093010.4S3Col2PMFLOS-A00:0000:00Lop Buri30930239.5S3Col2PMG/FLOS-A00:2900:29Lop Buri31110032.2S3Art2PMFLOS-D00:2400:41Chai Nat31120049.7P1Art2UPMFLOS-A00:3700:46Sara Buri32910019.2S3Col2PMFLOS-A00:1000:17Ayuthaya3341003.3S1Art2ACFLOS-A00:0000:00Lop Buri3351001.0S1Col2ACG/FLOS-B00:0000:00Pathun Thani34040119.8Art2ACG/FLOS-B00:1400:14Suphan Buri34040222.1S3Art2ACG/FLOS-B00:1600:19Sara Buri20891012.4F3Art2UPMFLOS-A00:0100:02Sara Buri208910226.3Art2SAFLOS-A00:1900:24								PM	G	LOS-A	00:23	00:23
Lop Buri30930239,5\$3Col2PMG/FLOS-A00:2900:29Lop Buri31110032.2\$3Art2PMFLOS-D00:2400:41Chai Nat31120049.7P1Art2UPMFLOS-A00:2700:46Sara Buri32910019.2\$3Col2PMFLOS-A00:1400:17Ayuthaya3341003.3\$1Art2ACFLOS-A00:0200:03Lop Buri3351001.0\$1Col2ACG/FLOS-B00:0000:00Pathum Thani34040119.8Art2ACGLOS-A00:1400:14Suphan Buri34040222.1S3Art2ACG/FLOS-B00:1600:19Sara Buri20891012.4F3Art2UPMFLOS-A00:0100:02Sara Buri208910226.3Art2SAFLOS-A00:1900:24									F	LOS-A	1.1.2. B	00:00
Lop Buri31110032.2S3Art2PMFLOS-D00:2400:41Chai Nat31120049.7P1Art2UPMFLOS-A00:3700:46Sara Buri32910019.2S3Col2PMFLOS-A00:1400:17Ayuthaya3341003.3S1Art2ACFLOS-A00:0200:03Lop Buri3351001.0S1Col2ACG/FLOS-A00:1400:14Pathum Thani34040119.8Art2ACGLOS-A00:1400:14Suphan Buri34040222.1S3Art2ACG/FLOS-B00:1600:19Sara Buri20891012.4F3Art2UPMFLOS-A00:0100:02Sara Buri208910226.3Art2SAFLOS-A00:1900:24	• •							PM	G/F	LOS-A	00:29	00:29
Chai Nat31120049.7P1Art2UPMFLOS-A00:3700:46Sara Buri32910019.2S3Col2PMFLOS-A00:1400:17Ayuthaya3341003.3S1Art2ACFLOS-A00:0200:03Lop Buri3351001.0S1Col2ACG/FLOS-B00:0000:00Pathum Thani34040119.8Art2ACGLOS-A00:1400:14Suphan Buri34040222.1S3Art2ACG/FLOS-B00:1600:19Sara Buri20891012.4F3Art2UPMFLOS-A00:0100:02Sara Buri208910226.3Art2SAFLOS-A00:1900:24	•									LOS-D	00:24	
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         00:12         00:03           Lop Buri         335         100         1.0         S1         Col         2         AC         G/F         LOS-A         00:00         00:00           Pathum Thani         340         401         19.8          Art         2         AC         G/F         LOS-A         00:14         00:14           Suphan Buri         340         402         22.1         S3         Art         2         AC         G/F         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	•							UPM	F	LOS-A	00:37	00:46
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-A         00:00         00:00           Pathum Thani         340         401         19.8          Art         2         AC         G/F         LOS-A         00:14         00:14           Suphan Buri         340         402         22.1         S3         Art         2         AC         G/F         LOS-A         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			100				2	РМ	F	LOS-A	00:14	00:17
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/F         LOS-B         00:10         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	Ayutthaya		100				2	AC ·	Ft	LOS-A	00:02	
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	Lop Buri	335	100	1.0	\$1	Col	2	AC	G/F	LOS-B	en en la francé de la composition de la	
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         00:01         00:22	Pathum Thani	340	401	19.8		Art			G		and the second	
Sara Buri 2089 102 26.3 Art 2 SA F LOS-A 00:19 00:24	Suphan Buri	340	402	22.1	S3	Art	1 A A A A A A A A A A A A A A A A A A A		G/F	1.1		1 A A
	Sara Buri		101		F3	Art						
Sara Buri 2089 103 1.5 F6 Art 2 SA G/F LOS-A 00:01 00:01	Sara Buri					Art						
	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 🔬

					F	Hab	•				
	District	Route	Sect	Length	Func		Sur Lns Typ	t 		Free Tvl Time	Impeded
						class	LINS TYPE	e cond	1.0.5.	80	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	•	00:32
	Lam Na Rai	2129	100	1.5	F3	Col	2 PM	F/P	LOS-C		00:02
	Lam Na Rai	2219	100	15.7	F5		2 SA	F	LOS-A		00:14
	Lam Na Rai	2219	200	33.9	F6	Col	2 'SA	F	LOS-A		00:31
	Lam Na Rai	2243	100	27.5	. F6	Col	2 SA	F	LOS A		00:25
	Sara Buri	2243	200	45.0	F6	Col	2 SA	F	LOS A	212	00:42
	Lam Na Rai	2247	200	10.6	F6	Col	2 SA		LOS-A		00:09
	Lam Na Rai	2247	300	23.3	F6	Col	2 SA	F	LOS A		00:21
	Lam Na Rai	2256	100	38.3	F3	Art	2 \$5		LOS-A		00:35
•	Lam Na Rai	2321	100	34.8	F6	Col	2 SA	G/F	LOS-A		
	Chai Nat	3010	100	13.5	F6	Col	2 DBS				00:26
	Lop Buri	3017		47.8	F3	Col	2 PM		LOS-A		00:12
	Lop Buri	3017	201	26.9	F3	Col	2 \$5	G/F	LOS-A		00:35 00:20
	Lop Buri	3022	100	19.6	F3	Col	2 33 2 PM		LOS-A		
	Lop Buri	3023	100	5.5	F4	Col	2 PM 2 PM	F/P	LOS-B		00:29
	Lop Buri	3028	100	.18.0	F4			F/P			80:00
	Lop Buri	3028	102	1.1	F4	Art	2 DBS	-	LOS-A		00:13
	Lop Buri	3020	102	1.4	F4 F4	Art	2 DBS		LOS-A		00:00
	Lop Buri	3030	102			Art	2 DBS	•	LOS-A		00:01
	•	3032		9.7	F4	Art	2 DBS		LOS-A		00:07
	Lop Buri		100 201	32.4	F4	Col	2 DBS		LOS-B		00:28
	Lop Buri	3032		0.3	F4	Art	2 DBS		LOS-A		00:00
	Suphan Buri	3032	202	10.3	F3	Art	2 DBS		LOS-B		00:11
	Lop Buri	3034	100	16.4	F4	Art	2 PM		LOS-B		00:18
	Suphan Buri	3039	100	18.4	F4	Art	2 DBS		LOS-C		00:22
	Suphan Buri	3039	201	43.3	F3	Art	2 DBS		LOS-B		00:48
	Chai Nat	3039	301	13.6	F3	Art	2 AC		LOS-B		00:40
	Chai Nat	3039	. 302	7.0	F3	Art	2 UP		LOS-A		00:05
	Chai Nat	3039	400	3.6	F3	Art	2 AC		LOS-B		00:03
	Sara Buri	3041	100	11.0	F4	Col	2 UPI		LOS-A		00:27
	Sara Buri	3041	200	7.5	F4	Col	2 DBS		LOS-A		00:05
	Sara Buri	3041	300	14.8	F4	Col	2 DBS		LOS-A		00:13
	Sara Buri	3045	100	6.6	F4	Col	2 DBS		LOS-A		00:06
	Sara Buri	3048	100	14.7	F3	Col	2 UPI		LOS-A		00:18
	Ayutthaya	3056	100	12.7	F4	Col	2 PM		LOS-A		00:11
	Ayutthaya	3062	100	7.3	F4	Col	2 UPI		LOS-A		00:06
	Ayutthaya	3063	102	0.4	F4	Col	2 DBS		LO\$-8		00:00
	Ayutthaya	3064	100	10.5	F4	Col	2 DBS		LOS-C	00:07	00:12
	Ayutthaya	3064	200	21.7	F4	Col	2 SA	F	LOS-A		00:20
	Lop Buri	3064	300	0.4	F6	Col	2 SA	F	LOS-A		00:00
	Ayutthaya	3111	200	29.3	F2	Col	2 AC	G	LOS-B		00:26
	Chai Nat	3183	101	18.7	F3	Col	2 UPI	I G/F	LOS-B		00:16
	Chai Nat	3184	100	14.0	F5	Col	2 SA	G/F	L0\$-F		00:21
	Ayutthaya	3195	102	32.8	F4	Art	2 DBS	r f	LOS-B		00:36
	Chai Nat	3196	100	42.6		Col	2 Pav	ed F	LOS-A		00:39
	Lop Buri	3196	200	29.6	F4	Col	2 SS	r f/P	LOS-A		00:36
	Lop Buri	3196	300	0.0		Art	2	F	LOS-A		00:00
	Chai Nat	3211	100	49.0	F6	Art	2 D8S	r p	LOS-A		02:02
	Sara Buri	3225	100	9.1	F4	Col	2 D85	F/P	LOS-A		00:11
	Sara Buri	3226	100		F4	Col	2 ST	F	LOS-A	00:06	00:07
	Chai Nat	3251	100	32.8	۶5	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		LOS-B		00:13
•	Ayutthaya	3263	201	21.5	F3	Art	2 AC	G	LOS-A		00:16
· ·	Ayutthaya	3267	101	26.5	F4	Art	2 AC	F	LOS-B		00:29
	Chai Nat	3285	100	10.0	-	Col	2 SA	G/F	LOS-A		00:07
	cliat Nac		,00					-, ,			

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

Adjusted Li	nk Trave	el Time:	s tor Na	ationa	l and P	11403	ncial	тжу г	(etwork	- 27 March (77)	•
District	Route	Sect	Length		UCR Class		Surf Type			Free Tvi Time 80	Impeded Time
Lop Buri	3303	100	10.8	E4	Art	2	DBST	F/P	LOS-B	00:08	00:16
Ayutthaya	3309	100	7.2		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
.em Na Rai	3326	200	35.4	F6	Col	2	SA	F	LOS-A	00:26	00:33
hai Nat	3353	100	21.7	<b>.</b>	Col	2	SA	G/F	LOS-A	00:16	00:16
Chai Nat	3354	100	17.0	F6	Col	= = <b>2</b>	SA	G/F	LOS-A	00:12	00:12
yutthaya	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
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Province	Line	Station	1987	1987
			Out Bound	In Bound
yutthaya	Trunk	Chiang Rak Noi	57,114	54,692
yutthaya	Trunk	Klong Puttra	52,214	50,107
lyutthaya	Trunk	Bang Pa-in	272,221	294,777
yutthaya	Trunk	Bang Pho	0	10,748
yutthaya	Trunk	Ayutthaya	1,211,355	1,219,319
yutthaya	Trunk	Ban Ma	8,939	7,364
yutthaya	Trunk	Mab Pra Chan	64,302	72,119
yutthaya	Trunk	Ban Don Klang	0	22,306
yutthaya	Trunk	Phra Kew	86,945	85,972
yutthaya	Junction	Ban Phachi	603,884	610, 187
yutthaya	Northern	Non Wi Wat	83,621	103,630
yutthaya	Northern	Tha Rua	498,536	510,115
yutthaya	East/Northeast	Nong Kui	26,052	22,865
ara Buri	East/Northeast	Ban Mor	287,092	278,053
ara Buri	East/Northeast	Nong Doan	160,106	166,750
ara Buri	East/Northeast	Ban Klab	99,438	98,755
ara Buri	East/Northeast	Nong Saeng	123, 167	119,550
ara Buri	East/Northeast	Nong Sida	41,442	43,203
ara Buri	East/Northeast	Ban Pok Pek	19,722	16,579
ara Buri	East/Northeast	Sara Buri	327,419	358,322
ara Buri	East/Northeast	Nong Bua	11,927	6,777
ara Buri	Junction	Kaeng Khoi	510,891	417, 150
ara Buri	Northeastern	Ban Chong Tai	1,125	688
ara Buri	Northeastern	Kao Kok	1,014	3,560
ara Buri	Northeastern	Kao Hin Dad	5,196	7,289
ara Buri	Northeastern	Hin Son	37,009	30,900
ara Buri	Northeastern	Kao Soong	6,489	15, 158
ara Buri	Eastern	Tob Kwang	8,681	5,555
ara Buri	Eastern	Mab Ka Bao	8 747	9,135
ara Buri	Eastern	Pa Sa Ded	5,680	5,986
ara Buri	Eastern	Hin Lab	38,479	38,510
ara Buri	Eastern	Muak Lek	88,574	45,827
op Buri	Northern	8an Pha Wai	14,167	9,303
op Buri	Northern	Lop Buri	1,190,555	1,055,958
op Buri	Northern	Tha Kae	3,576	2,146
ор Вигі	Northern	Coke Ka Team	31,204	30, 195
op Buri	Northern	Nong Tao	18,057	16,068
op Buri	Northern	Nong Trai Kao	11,497	4,587
op Buri	Northern	Ban Mi	285,730	297,569
op Buri	Northern	Hui Kew	11,025	6,474
op Buri	Northern	Phai Yai	23,510	30,798
op Buri	Eastern	Kaeng Sueten	27,319	18,738
op Buri	Eastern	Ban Nong Bau	759	1,499
op Buri	Eastern	Ma Nao Whan	5,395	10,667
op Buri	Eastern	Coke Sa Loong	41,969	18,824
op Buri	Eastern	Coke Makam Pom	0	6,157
op Buri	Eastern	Sura Narai	7,833	7,535
op Buri	Eastern	Khao Yai Ka Ta	197	736
op Buri	Eastern	Talad Lam Na Ra		10,496
op Buri	Eastern	Lam Na Rai	32,969	33,858
op Buri	Eastern	Ban Koa Rang	1,110	3,283
op Buri	Eastern	Paen Din Thong	559	341
op suri op Buri	Eastern	Ban Chong Ko	711	2,537
op Buri	Eastern	Coke Klee	3,758	2,392
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Total

6,459,281 6,302,109

# APPENDIX 4. LIST OF STUDY REPORTS AND PAPERS

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### 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
- Local Government Finance Vol. 9
- Vol. 10 Energy
- Vol.11 Landsat Analysis
- **Draft Final Report**

**Executive Summary** 

Master Plan Report

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

**Executive Summary** 

Master Plan Report

Sector Reports

Spatial Framework and Network for Development Vol. 1

Vol. 2 Urban Management

**Environmental Management** Vol. 3

- 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

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# 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	•
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Member of the Committee and Officer in Charge, JICA

**TEAM EXPERTS** 

1. Dr. Jinichiro Yabuta

2. Dr. Masahiko Honjo

3. Mr. Yoshinobu Nomura

4. Dr. Masahiro Nakashima

5. Mr. Tadashi Kume

6. Mr. Toru Ishibashi

7. Dr. Michiaki Hosono

8. Mr. Katsuhide Nagayama

9. Mr. Atsushi Saito

10. Dr. Charit Tingsabadh

11. Mr. James M. McBride

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13. Ms. Abha Sirivongs Na Ayuthaya

14. Mr. Masamichi Ogawa

Leader, Regional Development, IDCJ

Advisor, Regional Development, IDCJ

Deputy Leader, Regional Development, PCI

Water Resource and Environmental Management, IDCJ

Land Use and Environmental Management, PCI

Industrial Development, ECFA

Agricultural Development, PCI

Spatial Framework for Development, Urban and Environmental Management, PCI

Distributional Marketing, PCI

National Economic Environment, CUSRI

Transportation Development, PCI

Transportation Development, IDCJ

Water Management Institution, CUSRI

Industrial Development, IDCJ

15.	Mr. Masahiro Hamano	Local Authority Finance, SOMC
16.	Mr. Masumi Ishida	Energy and Regional Economy, IDCJ
17.	Mr. Kazuto Yamada	Environmental Management, PCI
18.	Mr. Kenji Domoto	International and National Economic Environment, IDCJ
19.	Mr. Toshiyuki Imai	Private Investment and Industrial Development, IDCJ
	ECFA: Engineering Consult	
<u>CO-</u> ]	EXPERTS	
1.	Dr. Surin Setamamit	Environmental Management, Chulalong Korn University
2.	Dr. Chamnien Boonma	Agricultural Economy.

- 3. Dr. Kamol Sudaprasert
- 4. Dr. Jacques Amoyot
- 5. Dr. Wisoot Wiseschinda
- Mr. Suvit Vibulsresth 6.
- 7. Mr. Satoshi Machida
- 8. Dr. Krai Tungsonga

Agricultural Economy, Kasetsart University

Human Resource Development, Nonformal Education Department

Social Development in Rural Economies, Chulalong Korn University

Social Development in Rural Economies, Chulalong Korn University

Landsat Analysis, Thailand Remote Sensing Center

Landsat Analysis, Pacific Consultants Co. Ltd.

Survey of Industry, Distribution and Marketing, Asian Engineering Consultants

9,	Dr. Kraiyudht Dhiratayakinant
10.	Dr. Jesada Kaewkulaya
11.	Dr. Daranee Thavinpipatkul
12.	Ms. Shujit Pongtong

### Local Government Financing, Chulalong Korn University

Water Management, Kasersart University

Urban and Human Settlement Analysis, Chulalong Korn University

Tourism Development, Tourism Authority of Thailand

#### ADMINISTRATIVE SUPPORT STAFF

- 1. Mr. Yasunobu Kawato
- 2. Mr. Tsuneo Sakano

General Manager, Planning Division, IDCJ

anna (

Resident Representative, PCI Bangkok

