

# PROJECT SUMMARY (Other)

ASE THA/S 603/87

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Thailand	1.SITE OR AREA	Port of Bangkok, Port of Laem Chabang, Port of Map Ta Phut, Port of Sattahip, Port of Phuket, Port of Song Khla		1.PRESENT STATUS						
2.NAME OF STUDY	Effective Port Management and Operation System	2.PROJECT COST	<div> <div>(US\$1,000)</div> <div>1)</div> <div>2)</div> </div> <div>Total Cost    Local Cost    Foreign Cost</div>		<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)	(Description) The National Port Administration Commission was established in the Ministry of Transport and Communication by accepting recommendations of the study and came into operation since December 1988.  - Port of Laem Chang The administrative body has been established in the PAT.The Ccontainer Terminal and the agricultural/Bulk Berth are leased to the private companies and operated by them.  - Port of Map Ta Phut Started operation in 1992. IEAT became an administrative body, and each berth is leased to the private company.  - Port of Song Khla and Port of Phket The private sector is in charge of port management and its operation.								
4.REFERENCE NO.		Recommendation of port management - Determination of fundamental concept for the port planning and development policy. - Making of the port management policy. - Preparation for the operation and management as an international port. - Reviewing the legal system concerning port development, management and operation. - Recommendation of improvement of the cargo handling.									
5.TYPE OF STUDY	Other										
6.COUNTERPART AGENCY	Ministry of Transport and Communication										
7.OBJECTIVES OF STUDY	-Formulation of a framework for port operation										
8.DATE OF S/W	Feb.1986	4.CONDITIONS AND DEVELOPMENT IMPACTS									
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja	[Development Impacts] 1) Effective port service is indispensable for Thai economic activity, and at the same time port development is emphasized its importance as main infrastructure for promotion of industrial location and as a core of regional economical development. 2) Reduction of transportation cost through the effective port operation 3) Mitigation of the congestion at Bangkok port as well as promotion of the development of the Eastern Seaboard region are brought about through the enhancement of the effectiveness of containe cargo handling and inland transportation at Port of Laem Chabang.									
10.STUDY TEAM	No.of Members    12 Period    Aug.1986-Mar.1988(8 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>99.90</td> <td>48.44</td> <td>51.36</td> </tr> </tbody> </table>	Total M/M	Japan	Field	99.90	48.44	51.36				2.MAJOR REASONS FOR PRESENT STATUS
Total M/M	Japan	Field									
99.90	48.44	51.36									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Legal System				3.PRINCIPAL SOURCE OF INFORMATION						
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>265,006 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>265,693</td> </tr> </tbody> </table>		265,006 (¥'000)	Total		Contracted	265,693	5.technical transfer	The study of port management was carried out for the counterpart.  ①②		
	265,006 (¥'000)										
Total											
Contracted	265,693										

和名 効果的港湾システム調査

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P)

ASE THA/S 104/88

Compiled Mar.1986  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Thailand	1.SITE OR AREA	Chao Phraya River Basin(162,000 sq.km)		1.PRESENT STATUS  <input type="checkbox"/> In Progress or In Use <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Flood Forecasting System in the Chao Phraya River Basin	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    55,948 (US\$1=130Yen)    2)								
3.SECTOR	Social Infrastructures/River & Erosion Control	3.CONTENTES OF MAJOR PROJECT(S)	(Description) Royal Irrigation Department highly appreciated the study and prepared to pledge for the grant aid for the urgent projects among the proposed plans, but has not requested to the Government of Japan. The RID has an intention of requesting similar projects of irrigation water management sysytem. (FY 1991 Overseas Survey) No policy has come out regarding this project. (FY 1992 Overseas Survey) Waiting for the answer.								
4.REFERENCE NO.		Step 1: Flood forecasting system started with the existing facilities as the bases and by adding auxillary equipment as required. This system is composed of (1) 34 of rainfall gauging stations, (2) 31 of water level gauging stations, (3) 54 of HF radio stations, (4) 7 of VHF radio stations, and (5) one set of data management system. Step 2: Flood forecasting system with latest equipment and facilities operated under full flood forecasting organizations. This system is composed of (1) 65 of rainfall gauging stations, (2) 19 of water level gauging stations, (3) 19 of rainfall/water level gauging stations, (4) 2 of radar rainfall gauging stations, (5) 110 of VHF radio stations, (6) 15 of VHF repeater stations, (7) 2 of VHF radio stations, (8) 5 of sub-stations, (9) 6 of terminal stations of TOT, (10) one of flood forecasting center, and (11) one set of data management system.									
5.TYPE OF STUDY	M/P										
6.COUNTERPART AGENCY	Royal Irrigation Department, Ministry of Agriculture and Cooperatives	4.CONDITIONS AND DEVELOPMENT IMPACTS	The flood forecasting system opens up to the possibilities of highly reliable flood forecasting services through collection of flood information from extensive areas of the Chao Phraya River basin. The communication networks of the flood forecasting systems render great services in communication other than flood forecasting. It is expected to mitigate the flood damage at the main urban areas along the river course such as Nakon Sawan, Chai-Nat, Ayutaya, Bangkok, etc. through the efficient flood fighting works and evacuation of the inhabitants. Besides, the hydrological data collected and managed by this system can be used as the basic data to formulate the comprehensive flood control plan in the Chao-Phraya River Basin.								
7.OBJECTIVES OF STUDY	Formulation of a flood forecasting system over Chao Phraya river basin	5.technical transfer	Execution of an intensive lecture course to counterparts on hydrologic computation procedures.								
8.DATE OF S/W	Jul.1986										
9.CONSULTANT(S)	CTI Engineering Co., Ltd. Nihon Koel Co., Ltd.										
10.STUDY TEAM	No.of Members    11 Period Feb.1987-Jun.1988(16 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>73.32</td> <td>38.47</td> <td>34.85</td> </tr> </tbody> </table>	Total M/M	Japan	Field	73.32	38.47	34.85	2.MAJOR REASONS FOR PRESENT STATUS Grant and projects by the Government of Japan has been narrowed down according to the increase of GNP of Thailand.			
Total M/M	Japan	Field									
73.32	38.47	34.85									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Survey	3.PRINCIPAL SOURCE OF INFORMATION ①②									
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>209,304 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>183,794</td> </tr> </tbody> </table>		209,304 (¥'000)	Total		Contracted	183,794				
	209,304 (¥'000)										
Total											
Contracted	183,794										

和名 チャオピア川洪水予報システム計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1990  
Revised Mar.1991

ASE THA/S 207A/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Thailand	1.SITE OR AREA	Central Region (26 changwats, including Bangkok; 104,000 sq.km, pop. 17 million)	1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Road Development in the Central Region	2.PROJECT COST	(US\$1,000)      Total Cost      Local Cost      Foreign Cost 1)      79,202 2)      49,151	(Description) The study was followed by the feasibility study.  (FY 1991 Overseas Survey) No additional information.							
3.SECTOR	Transportation/Road	3.CONTENTS OF MAJOR PROJECT(S)									
4.REFERENCE NO.		1)Trunk highway network (ML projects), 8 Links, total length:288.8km. Project No.ML-1 ~ ML-8 - The increase of lanes and new highway construction are necessary in many places. - It will be necessary in the future to develop a road network with inter-city expressways. 2)Supplemental road network (IM projects), 23 Links,total length:718.2km. Project No.IM-1 ~ IM-23 - It will be necessary in the future to improve 85 routes (2,017km) 3)Rehabilitation (RH projects), 8 Links, total length:206.8km Project No.RH-1 ~ RH-8 4)Improvement of intersections 48 places  The project costs 1) and 2) above are for the ML project and the IM project.									
5.TYPE OF STUDY	M/P+ (F/S)										
6.COUNTERPART AGENCY	Dept. of Highways, Ministry of Communications										
7.OBJECTIVES OF STUDY	Road development										
8.DATE OF S/W	Feb.1987										
9.CONSULTANT(S)	Katahira & Engineers International Nihon Koei Co., Ltd.	4.CONDITIONS AND DEVELOPMENT IMPACTS		2.MAJOR REASONS FOR PRESENT STATUS							
		Development Impacts: - Efficient functioning of existing highways - Meet increased traffic volume - Regional development - Strengthen required linkage between producing places, markets, transportation centers, etc. - Ease traffic congestion - Prevent highway accidents - Invite private firms to participate in highway construction		See next page.							
10.STUDY TEAM	No.of Members 10 Period Aug.1987-Mar.1989(20 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>85.80</td> <td>15.70</td> <td>70.10</td> </tr> </tbody> </table>	Total M/M	Japan	Field	85.80	15.70	70.10				
Total M/M	Japan	Field									
85.80	15.70	70.10									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Traffic survey by vehicle type, O/D survey, road inventory survey, boring and road surface survey										
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>338,279 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>328,737</td> </tr> </tbody> </table>		338,279 (¥'000)	Total		Contracted	328,737	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION	
	338,279 (¥'000)										
Total											
Contracted	328,737										
		Technique of data collection, analysis and methodology approaches.		①②							

和名 中央部道路網整備計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

ASE THA/S 207B/88

Compiled Mar.1990  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Thailand	1.SITE OR AREA	Central Region (26 changwats, including Bangkok; 104,000 sq.km, pop. 17 million)														
2.NAME OF STUDY	Road Development in the Central Region	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>398,960</td> <td>202,640</td> <td>196,320</td> </tr> <tr> <td>US\$1=25B</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	398,960	202,640	196,320	US\$1=25B			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	398,960	202,640	196,320														
US\$1=25B																	
3.SECTOR	Transportation/Road	3.CONTENTES OF MAJOR PROJECT(S)	<p>1)Trunk highway network (ML projects) 7 projects, total length 320.3km ML-1:13.6km, ML-2:23.7km, ML-3:44.6km, ML-4:61.9km, ML-5:50.3km ML-7:40.9km, ML-9:81.7km</p> <p>2)Supplemental road network (IM projects) 11 projects, total length 297.2km IM-1:18.7km, IM-2:35.9km, IM-11:40.7km, IM-12:51km, IM-13:17.8km IM-14:25.6km, IM-15:24.7km, IM-16:20.8km, IM-17:19.2km, IM-22:15.9km IM-23:26.9km</p> <p>3)Rehabilitation (RH projects) 3projects, total length 96.7km RH-2:39.7km, RH-3:17.9km, RH-5:39.3km</p> <p>4)Improvement of intersections</p>														
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </tbody> </table> <p>Conditions and Development Impacts: [Conditions] Trunk road projects are selected to alleviate traffic congestion and to support the national project (Eastern Seaboard Development). Provincial road projects are selected to stimulate regional development and to provide socio-economic needs of the population. Feasibility analysis was undertaken on 21 projects which the Dept. of Highways assigned high priority. Economic benefits are taken as the difference in vehicle operating cost and travel time for with and without projects. [Development Impacts] Alleviation of traffic congestion, Regional development, etc. * The EIRRs for new construction, improvement of roads and rehabilitation of roads are 19.7% ~ 39.6%, 15.1% ~ 32.5% and 74.2% ~ 150.1% respectively. All the routes analyzed were found to be feasible.</p>			Feasibility:	EIRR1)	FIRR1)	Yes	EIRR2)	FIRR2)		EIRR3)	FIRR3)			
Feasibility:	EIRR1)	FIRR1)															
Yes	EIRR2)	FIRR2)															
	EIRR3)	FIRR3)															
5.TYPE OF STUDY	(M/P)+F/S	10.STUDY TEAM	<p>No.of Members 10 Period Aug.1987-Mar.1989(20 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>85.70</td> <td>15.70</td> <td>70.10</td> </tr> </tbody> </table>			Total M/M	Japan	Field	85.70	15.70	70.10						
Total M/M	Japan	Field															
85.70	15.70	70.10															
6.COUNTERPART AGENCY	Dept. of Highways	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>Traffic survey by vehicle type, O/D survey, road inventory survey, boring and road surface survey</p>														
7.OBJECTIVES OF STUDY	Road development	5.technical transfer	<p>Instruction on how to formulate the M/P, F/S, and survey.</p>														
8.DATE OF S/W	Feb.1987	12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>338,279 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>328,737</td> </tr> </tbody> </table>			Total	338,279 (¥'000)	Contracted	328,737								
Total	338,279 (¥'000)																
Contracted	328,737																
9.CONSULTANT(S)	Katahira & Engineers International Nihon Koei Co., Ltd.	1.PRESENT STATUS	<p>Completed or in Progress <input checked="" type="checkbox"/> Promoting Completed <input type="checkbox"/> Delayed or Suspended Implementing <input type="checkbox"/> Discontinued or Cancelled Processing <input type="checkbox"/></p> <p>(Description) 15 routes out of 21 are under construction by OECF finance (L/A 1988 Nov. 4,117 million yen). ML-5 (Chonburi - Pataya) has been under construction since Aug. 1990. Another OECF L/A (5,670 million yen) was signed in Sep. 1991.  1990 Dec. OECF loan agreement (15,497 million yen) Construction scheduled to commence in FY1992.  Of the remaining routes, D/D for ML-9 (Bangkok-Chonburi new highway) is under way with the World Bank finance.  (FY 1991 Overseas Survey) The construction will be completed in 1995.  (FY 1992 Overseas Survey) The construction of ML-9 was commenced in 1992 and is now under way.</p>														
		2.MAJOR REASONS FOR PRESENT STATUS	<p>Selected routes were consistent with the policy of the Thai Government.</p>														
		3.PRINCIPAL SOURCE OF INFORMATION	<p>①②③④</p>														

和名 中央部道路網整備計画

{F/S,(M/P)+F/S,D/D}

# PROJECT SUMMARY (M/P+F/S)

ASE THA/S 208A/88

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS												
1.COUNTRY	Thailand	1.SITE OR AREA	Phuket, Phangnga, and Krabi (Greater Phuket)		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued											
2.NAME OF STUDY	Potential Tourism Development for the Southern Region	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>1,753,000</td> <td>526,000</td> <td>1,227,000</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	1,753,000	526,000	1,227,000	2)		
(US\$1,000)	Total Cost	Local Cost	Foreign Cost													
1)	1,753,000	526,000	1,227,000													
2)																
3.SECTOR	Tourism/General	3.CONTENTS OF MAJOR PROJECT(S)	(Description) A feasibility study was subsequently undertaken on the priority projects.  (FY 1991 Overseas Survey) No additional information.													
4.REFERENCE NO.		- Development of tourism resources Conservation of historical sites in Phuket; village tourism; Andaman Historical and Cultural Research Center; National park development; training center - Improvement of tourism infrastructure: Airport; water supply; roads; cruising route improvement urban development; tourism manpower training school - New resort complex: Thai Muang, Khok Kloi beach resort, Phuket Marine center														
5.TYPE OF STUDY	M/P+ (F/S)															
6.COUNTERPART AGENCY	Tourism Authority of Thailand (TAT)															
7.OBJECTIVES OF STUDY	Formulation of a master plan through 2001 and feasibility analysis of priority projects	4.CONDITIONS AND DEVELOPMENT IMPACTS		2.MAJOR REASONS FOR PRESENT STATUS												
8.DATE OF S/W	Jul.1987	EIRR of the entire package was estimated to be 34.6%. Development impacts: 1) With 1987 as base year, per capita GNP will increase 26.8% by 1991, 55.4% by 1996 and 86.6% by 2001. 2) Employment will increase 2 times by 1991, 2.7 times by 1996 and 3.7 times by 2001. 3) Net foreign exchange earnings will increase 2.7 times by 1991, 3.7 times by 1996 and 5.5 times by 2001. In addition to the investments mentioned above, it is necessary to strengthen administrative organizations, such as clear demarcation of responsibility between the central and regional governments (especially on environmental administration, and infrastructural development), good coordination between local administrative bodies, expansion of the functions of TAT (planning, coordination and project implementation capability in addition to tourism promotion) and formation of a wider area coordinating committee of Phuket, Phangnga and Krabi Provinces.														
9.CONSULTANT(S)	JCP Co., Ltd. Pacific Consultants International	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION												
10.STUDY TEAM	No.of Members 16 Period Nov.1987-Mar.1989(12 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>58.79</td> <td>21.04</td> <td>37.75</td> </tr> </tbody> </table>	Total M/M	Japan	Field	58.79	21.04	37.75	OJT on the selection of sites for international tourism development, analysis of tourism development potentials, market development and promotion campaigns and programming through intergration with other organizations		①②						
Total M/M	Japan	Field														
58.79	21.04	37.75														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Market survey LANDSAT survey															
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>211,779 (¥000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>198,915</td> </tr> </tbody> </table>		211,779 (¥000)	Total		Contracted	198,915									
	211,779 (¥000)															
Total																
Contracted	198,915															

和名 南部地域開発計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

ASE THA/S 208B/88

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Thailand	1.SITE OR AREA	Phuket, Phangnga, and Krabi (Greater Phuket)																		
2.NAME OF STUDY	Potential Tourism Development for the Southern Region	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>1)</td> <td></td> <td></td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)				2)				3)		
	Total Cost	Local Cost	Foreign Cost																		
(US\$1,000)	1)																				
	2)																				
	3)																				
3.SECTOR	Tourism/General	3.CONTENT'S OF MAJOR PROJECT(S)	<p>1) New resort complex:</p> <ul style="list-style-type: none"> <li>- Thai Muang international beach resort base (5,000 hotel rooms)</li> <li>- Khok Kloi public beach development (1,000 hotel rooms)</li> </ul> <p>2) Phuket marine center (100ha)</p> <ul style="list-style-type: none"> <li>- Yacht harbor (200 berths for yachts and a basin for boats)</li> <li>- Marine hotel (200 rooms)</li> <li>- Marine center (restaurants, supermarkets)</li> </ul>																		
4.REFERENCE NO.		<p>(Description)</p> <p>1) TAT has been making preparations to obtain the Cabinet endorsement on the proposed projects.</p> <p>2) TAT has been coordinating with Royal Forest Dept. and Fine Arts Dept. on the implementation of the projects below proposed for public sector investment.</p> <ul style="list-style-type: none"> <li>- Andaman Historical and Cultural Research Center (Krabi)</li> <li>- Tourism Manpower Training School (Phuket)</li> <li>- National Park Training Center (Phuket).</li> </ul> <p>3) With regard to the improvement of other tourism facilities and the development of new resort complexes, TAT will prepare programs after the endorsement by the Cabinet.</p> <p>(FY 1991 Overseas Survey) No additional information.</p>																			
5.TYPE OF STUDY	(M/P)+F/S																				
6.COUNTERPART AGENCY	Tourism Authority of Thailand																				
7.OBJECTIVES OF STUDY	Formulation of a master plan through 2001 and feasibility analysis of priority projects																				
8.DATE OF S/W	Jul.1987	Imp. Period:	.1989-.2001																		
9.CONSULTANT(S)	JCP Co., Ltd. Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	EIRR1)	FIRR1)	12.90															
			Yes	EIRR2)	FIRR2)	13.40															
				EIRR3)	FIRR3)																
10.STUDY TEAM	No.of Members 16 Period Nov.1987-Mar.1989(12 months)	Conditions and Development Impacts: See the preceding page.																			
	Total M/M Japan Field 58.79 21.04 37.75																				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Market survey LANDSAT survey	2.MAJOR REASONS FOR PRESENT STATUS																			
		TAT obtained an OECF loan to implement 72 tourism-related projects by the end year (1991) of the 6th national development plan (L/A in Jan. 1988, 6,252 million yen). However, the implementation of these projects have been considerably behind the schedule. Pending the completion of these projects, TAT plans to apply for another OECF loan on tourism-related projects, including those proposed by this study.																			
12.EXPENDITURE	Total 211,779 (¥'000) Contracted 198,915	3.PRINCIPAL SOURCE OF INFORMATION																			
		①②④																			

和名 南部地域開発計画

{F/S,(M/P)+F/S,D/D}

# PROJECT SUMMARY (M/P+F/S)

ASE THA/A 202A/88

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS																						
1.COUNTRY	Thailand	1.SITE OR AREA	Four provinces in the eastern Thailand facing or close to the sea (Chachoengsao, Chonburi, Rayon and Chanthaburi)		1.PRESENT STATUS																					
2.NAME OF STUDY	Agricultural Land and Conservation for Integrated Rural Development in the East	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>1)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td></td> <td>2,776,293</td> <td></td> <td>1,696,090</td> <td>1,080,203</td> </tr> <tr> <td>by 1988 price</td> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost		2,776,293		1,696,090	1,080,203	by 1988 price	2)				<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost																						
	2,776,293		1,696,090	1,080,203																						
by 1988 price	2)																									
3.SECTOR	Agriculture/General	3.CONTENT OF MAJOR PROJECT(S)	<p>(Description)</p> <p>The following plans have been made to strengthen the capabilities of DLD in implementing the project.</p> <p>(1) To establish a "Technology Introducing Center" at the DLD main office.</p> <p>(2) To set up a "Soil and Water Conservation Center" at every regional office of DLD.</p> <p>(FY 1991 Overseas Survey)</p> <p>No additional information.</p>																							
4.REFERENCE NO.		<p>All over Thailand, soil erosion problems caused by random development is serious, 34% of national land is eroded. 474(716,000ha) of the areas in 4 provinces of the East of Thailand are eroded.</p> <p>The project for "Agricultural Land and Conservation for Integrated Rural Development" has been formulated.</p> <table border="1"> <thead> <tr> <th>Province</th> <th>Study Area</th> <th>Project Area</th> <th>Planning Area (sq.km)</th> </tr> </thead> <tbody> <tr> <td>Chachoengsao</td> <td>5,351</td> <td>5,351</td> <td>2,200</td> </tr> <tr> <td>Chonburi</td> <td>4,363</td> <td>4,363</td> <td>3,041</td> </tr> <tr> <td>Rayong</td> <td>3,552</td> <td>3,552</td> <td>2,634</td> </tr> <tr> <td>Chanthaburi</td> <td>6,338</td> <td>1,981</td> <td>965</td> </tr> <tr> <td>Total</td> <td>19,604</td> <td>15,247</td> <td>8,840</td> </tr> </tbody> </table> <p>Soil conservation measures</p> <ol style="list-style-type: none"> <li>1. Agricultural measures: cropping methods, cultivation methods</li> <li>2. Mechanical measures: terracing systems, terrace channels</li> <li>3. Irrigation facility: farm ponds and reservoirs</li> <li>4. Supporting measures: infrastructures, agro-industry, farmers' education, institutional cooperation</li> </ol>	Province	Study Area	Project Area	Planning Area (sq.km)	Chachoengsao	5,351	5,351	2,200	Chonburi	4,363	4,363	3,041	Rayong	3,552	3,552	2,634	Chanthaburi	6,338	1,981	965	Total	19,604	15,247	8,840
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5.TYPE OF STUDY	M/P+ (F/S)																									
6.COUNTERPART AGENCY	Ministry of Agriculture and Cooperatives Department of Land Development (DLD)																									
7.OBJECTIVES OF STUDY		4.CONDITIONS AND DEVELOPMENT IMPACTS	<p>[Conditions]</p> <ol style="list-style-type: none"> <li>1) Classification of eroded areas</li> <li>Classification Soil loss (ton/ha/year)</li> <li>1.Top-urgent (more than 50)</li> <li>2.Urgent (50-30)</li> <li>3.Necessary (30-20)</li> <li>4.Normal (20-5)</li> <li>5.Not Necessary (under than 5)</li> </ol> <p>2) Pilot areas are chosen from the "Urgent" category</p> <p>3) Most of the "Top-Urgent" areas are in reserved forest areas.</p> <p>[Development policy]</p> <ul style="list-style-type: none"> <li>- To formulate a "Long Term Integrated Rural Development Plan", mainly land conservation.</li> <li>- To protect against soil erosion that occurred by random deforestation which is a major problem for agricultural productivity improvement.</li> <li>- Crop rotation with proper irrigation systems is one method to increase agricultural production.</li> <li>- Infrastructure and the creation of employment opportunities by agro-industry are methods for rural living improvements.</li> </ul>																							
8.DATE OF S/W	Feb.1987	<p>10.STUDY TEAM</p> <p>No. of Members 12</p> <p>Period Sep.1987-Sep.1988 (13 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>68.45</td> <td>22.98</td> <td>45.47</td> </tr> </tbody> </table>	Total M/M	Japan	Field	68.45	22.98	45.47	2.MAJOR REASONS FOR PRESENT STATUS																	
Total M/M	Japan		Field																							
68.45	22.98		45.47																							
9.CONSULTANT(S)	Taiyo Consultants Co., Ltd. Sanyu Consultants Inc.	3.PRINCIPAL SOURCE OF INFORMATION																								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic survey Analysis of soil samples	5. TECHNICAL TRANSFER	<p>①②</p>																							
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>213,841 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>202,533</td> <td></td> </tr> </tbody> </table>		Total	213,841 (¥'000)	Contracted	202,533		<p>- Acceptance of three trainees for in-service training in Japan</p> <p>- OJT</p> <p>- Organizing seminars at the DLD main office</p>																		
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Contracted	202,533																									

和名 東部タイ農地保全総合開発計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

ASE THA/A 202B/88

Compiled Mar.1990  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																			
1.COUNTRY	Thailand	1.SITE OR AREA	Four provinces in the eastern Thailand facing or close to the sea (Chachoengsao, Chonburi, Rayon, and Chanthaburi)																				
2.NAME OF STUDY	Agricultural Land and Conservation for Integrated Rural Development in the East	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>6,649</td> <td>4,063</td> <td>2,587</td> </tr> <tr> <td>by 1988 price</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	6,649	4,063	2,587	by 1988 price									
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(US\$1,000)	6,649	4,063	2,587																				
by 1988 price																							
3.SECTOR	Agriculture/General	3.CONTENT OF MAJOR PROJECT(S)	<p>Contents of Major Projects</p> <p>In 16 pilot areas selected from 4 provinces of the East of Thailand, "The Feasibility Study for Agricultural Land and Conservation for Integrated Rural Development" was carried out. The pilot areas were representative areas for planning, being 884,000 ha of typical geological, meteorological, soil and crop areas.</p> <table border="1"> <thead> <tr> <th>Province</th> <th>Planning Area(sq.km)</th> <th>Pilot Area (sites)</th> </tr> </thead> <tbody> <tr> <td>Chachoengsao</td> <td>2,200</td> <td>4</td> </tr> <tr> <td>Chonburi</td> <td>3,041</td> <td>5</td> </tr> <tr> <td>Rayong</td> <td>2,634</td> <td>5</td> </tr> <tr> <td>Chanthaburi</td> <td>965</td> <td>2</td> </tr> <tr> <td>Total</td> <td>8,840</td> <td>16</td> </tr> </tbody> </table> <p>Soil conservation measures</p> <ol style="list-style-type: none"> <li>1. Agricultural measures: cropping methods, cultivation methods</li> <li>2. Mechanical measures: terracing systems, terrace channels</li> <li>3. Irrigation facility: farm ponds and reservoirs</li> <li>4. Supporting measures: infrastructures, agro-industry, farmers' education, institutional cooperation</li> </ol> <p>* above costs are in Sept. 1988 prices.</p>			Province	Planning Area(sq.km)	Pilot Area (sites)	Chachoengsao	2,200	4	Chonburi	3,041	5	Rayong	2,634	5	Chanthaburi	965	2	Total	8,840	16
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Feasibility:	EIRR1)	10.40	FIRR1)																				
Yes	EIRR2)		FIRR2)																				
	EIRR3)		FIRR3)																				
5.TYPE OF STUDY	(M/P)+F/S	5.7ECHNICAL TRANSFER	<p>Acceptance of three trainees for in-service training in Japan</p> <p>OJT</p> <p>Organizing seminars at the DLD main office</p>																				
6.COUNTERPART AGENCY	Ministry of Agriculture and Cooperatives Department of Land Development (DLD)	6.PRINCIPAL SOURCE OF INFORMATION	①②																				
7.OBJECTIVES OF STUDY	Building up the ability of project execution	7.PRINCIPAL SOURCE OF INFORMATION	①②																				
8.DATE OF S/W	Feb.1987	8.PRINCIPAL SOURCE OF INFORMATION	①②																				
9.CONSULTANT(S)	Taiyo Consultants Co., Ltd. Sanyu Consultants Inc.	8.PRINCIPAL SOURCE OF INFORMATION	①②																				
10.STUDY TEAM	<p>No. of Members 12</p> <p>Period Sep.1987-Sep.1988(13 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>68.45</td> <td>22.98</td> <td>45.47</td> </tr> </tbody> </table>	Total M/M	Japan	Field	68.45	22.98	45.47	8.PRINCIPAL SOURCE OF INFORMATION	①②														
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和名 東部タイ農地保全総合開発計画

(F/S,(M/P)+F/S,D/D)



# PROJECT SUMMARY (F/S)

ASE THA/S 321/88

Compiled Mar.1990  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																													
1.COUNTRY	Thailand	1.SITE OR AREA	Bangkok, Chiang Mai, Khon Kaen, Nakhon Sawan, Nakhon Ratchasima, Hat Yai/Songkhla																														
2.NAME OF STUDY	Project of the Regional Truck Terminals	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>8,780</td> <td>4,704</td> <td>4,076</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	8,780	4,704	4,076																				
	Total Cost	Local Cost	Foreign Cost																														
(US\$1,000)	8,780	4,704	4,076																														
3.SECTOR	Transportation/Land Transportation	3.CONTENTS OF MAJOR PROJECT(S)	<p>Construction of three truck terminals:</p> <table border="1"> <thead> <tr> <th></th> <th>Stage1(1991-1992)</th> <th>Stage2(1991-1992)</th> <th>area</th> </tr> </thead> <tbody> <tr> <td>1. Chaing Mai</td> <td>27berth</td> <td>18berth</td> <td>24,555sq.m</td> </tr> <tr> <td>2. Khon kaen</td> <td>30</td> <td>20</td> <td>27,246sq.m</td> </tr> <tr> <td>3. Hat Yai/Songkhla</td> <td>50</td> <td>45</td> <td>49,104sq.m</td> </tr> </tbody> </table> <p>Freight Volume Handled</p> <table border="1"> <thead> <tr> <th></th> <th>1996</th> <th>2006 (unit:1000ton/year)</th> </tr> </thead> <tbody> <tr> <td>1. Chaing Mai</td> <td>436</td> <td>667</td> </tr> <tr> <td>2. Khon Kaen</td> <td>661</td> <td>1,107</td> </tr> <tr> <td>3. Hat Yai/Songkhla</td> <td>840</td> <td>1,598</td> </tr> </tbody> </table> <p>Newly established joint venture company(limited com.) composed of the Government and private company operates terminal. One company is assigned each terminal.</p>				Stage1(1991-1992)	Stage2(1991-1992)	area	1. Chaing Mai	27berth	18berth	24,555sq.m	2. Khon kaen	30	20	27,246sq.m	3. Hat Yai/Songkhla	50	45	49,104sq.m		1996	2006 (unit:1000ton/year)	1. Chaing Mai	436	667	2. Khon Kaen	661	1,107	3. Hat Yai/Songkhla	840	1,598
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4.REFERENCE NO.		<p>(Description)</p> <p>Regional truck terminals need a Bangkok truck terminal as a pre-requisite condition. And the Thai government has just commenced the formal preparation of 10 years-suspended Bangkok truck terminal project in October 1992 when new Bangkok truck terminal project completed. The Thai government also intends to apply various implementation methods adopted in this project for the regional truck terminal project. Thus the Thai government has suspended the regional truck terminal until Bangkok truck terminal project can be succeeded.</p> <p>Establishment of Bangkok truck terminal project is sure to be implemented. The government of Thailand gives the highest priority to this project, and has established a Truck Terminal Construction Committee (secretary; DLT). All of which can contribute to solving the causes of the delay. The government also made public that it is ready to provide the government's land, and to finance the capital of operation company.</p> <p>A JICA Expert has been attached to DLT since Nov. 1988, and now a successor is making efforts to implement both Bangkok and regional terminal projects.</p>																															
5.TYPE OF STUDY	F/S																																
6.COUNTERPART AGENCY	Dept. of Land Transport (DLT), Ministry of Communications																																
7.OBJECTIVES OF STUDY	Projection of cargo and determination of the scale of regional terminals																																
8.DATE OF S/W	Oct.1986	Imp. Period:	1991-.2000																														
9.CONSULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>40.36</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td>16.89</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>39.63</td> <td>FIRR3)</td> </tr> </tbody> </table> <p>Conditions and Development Impacts:</p> <p>Physical distribution was projected for 1987, 1996, and 2006. Cargo traffic projections were based on the O/D survey and interviews of enterprises, and economic growth projections by NESDB. Composition of cargo was determined according to the regular O/D survey conducted by DLT. EIRR was calculated on the assumption that the terminal in Bangkok be constructed and in operation.</p> <p>Regional truck terminals will contribute to (1) efficient land use in regional cities, (2) smoother road traffic in and around regional cities, (3) efficiency improvement of transport, (4) economy of scale by joint use of facilities and equipment, (5) stimulation of regional economies, and (6) environmental conservation.</p> <p>* the EIRRS are based on the assumption of Bangkok Terminal construction.</p>			Feasibility:	EIRR1)	40.36	FIRR1)	Yes/No	EIRR2)	16.89	FIRR2)		EIRR3)	39.63	FIRR3)																
Feasibility:	EIRR1)	40.36	FIRR1)																														
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10.STUDY TEAM	<p>No.of Members 10</p> <p>Period Jan.1987-Jul.1988(19 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>48.30</td> <td>17.50</td> <td>30.80</td> </tr> </tbody> </table>	Total M/M	Japan	Field	48.30	17.50	30.80																										
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48.30	17.50	30.80																															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>- Commodity Flow Survey</p> <p>- Traffic Count Survey</p> <p>- Freight Survey</p>																																
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>159,475 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>141,404</td> </tr> </tbody> </table>		159,475 (¥'000)	Total		Contracted	141,404	5.technical transfer	<p>OJT on the traffic survey and the interview survey Participation of 2 counterparts in the JICA training program</p>																								
	159,475 (¥'000)																																
Total																																	
Contracted	141,404																																
		3.PRINCIPAL SOURCE OF INFORMATION																															
		①②																															

和名 地方トラックターミナル整備計画

{F/S,(M/P)+F/S,D/D}

# PROJECT SUMMARY (Basic Study)

ASE THA/S 502/88

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Thailand	1.SITE OR AREA	Bangkok Metropolitan Region		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Topographic Mapping of Bangkok Metropolitan Area	2.PROJECT COST	(US\$1,000)      1)      2) Total Cost      Local Cost      Foreign Cost								
3.SECTOR	Social Infrastructures/Survey & Mapping	3.CONTENTES OF MAJOR PROJECT(S)	Aerial photography      Bangkok Metropolitan Region      4,000 sq.km Topographic mapping (Scale:1/10,000)      Bangkok Metropolitan Area      2,000 sq.km Topographic mapping (Scale:1/4,000)      Builtup Area of Bangkok      300 sq.km		(Description) The start of the topographic survey and aerial photography scheduled for the first year was delayed due to some procedural matters, but the work progressed as planned during the second year. The printing of the maps, the final phase of the work, was done by the Royal Thai Survey Dept. in the third year. The following organizations are currently using the maps: - Bangkok Metropolitan Administration (BMA) - Department of Town and Country Planning, Ministry of Interior - Metropolitan Water Works Authority, M.I. - Department of Public Works, M.I. - Express and Rapid Transit Authority of Thailand, M.I. - Royal Irrigation Department, Ministry of Agriculture and Cooperatives - National housing Authority, M.I. - Others						
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	The maps will provide the base for planning transportation, flood control, housing, sewerage and other aspects of urban planning for the Bangkok Metropolitan Area. They are mainly used as basic data for the main principal road planning, anti-slum policy plan, housing development planning, land readjustment planning, urban traffic control plan, flood preventive measures, sewerage planning, waste disposal planning.								
5.TYPE OF STUDY	Basic Study	10.STUDY TEAM	No.of Members      65 Period      Sep.1986-Mar.1989 (28 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>213.30</td> <td>52.20</td> <td>161.10</td> </tr> </tbody> </table>			Total M/M	Japan	Field	213.30	52.20	161.10
Total M/M	Japan	Field									
213.30	52.20	161.10									
6.COUNTERPART AGENCY	Bangkok Metropolitan Administration (BMA)	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY									
7.OBJECTIVES OF STUDY		12.EXPENDITURE	5.technical transfer 1) OJT on aerial triangulation, drafting, editing and other mapping processes. 2) OJT on new technologies of digital mapping and computer-aided mapping.								
8.DATE OF S/W	Mar.1986		2.MAJOR REASONS FOR PRESENT STATUS These maps are highly valued and widely used. After the completion of the map, notable changes have been made. However, revision and reprinting are quite difficult to conduct due to BMA's budgetary problems.								
9.CONSULTANT(S)	International Engineering Consultants Association Kokusai Kougyo Co., Ltd.		3.PRINCIPAL SOURCE OF INFORMATION ①								

和名 バンコク首都圏地形図作成事業

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (Other)

Compiled Mar.1990  
Revised Mar.1992

ASE THA/S 604/88

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Thailand	1.SITE OR AREA		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	City Planning Manual	2.PROJECT COST	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 8,550 8,550 2)	(Description) - The planning techniques included in the manual has been utilized by various divisions of the DTCP. - Preparations are under way to establish the proposed center. - The Government of Thailand requested JICA for a study on land consolidation and zoning.  (FY 1991 Overseas Survey) No additional information.							
3.SECTOR	Social Infrastructures/Urban Planning & Land Development	3.CONTENTES OF MAJOR PROJECT(S)	The study suggested measures to strengthen the organization of the DTCP (structural reform, technical training, data management system, etc.) and measures to improve the capability of the DTCP in planning, implementing and research, and proposed the establishment of a center for promoting urban planning and improvement.  The proposed center will be attached to the DTCP and work with the NESDB, the Regional Administration Dept. of the Ministry of Interior, Chulalongkorn Univ., Asian Institute of Technology and others. Major activities of the center are (1) technical training and (2) database management and R&D. Major facilities are seminar houses and dormitories.								
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	- The project will strengthen the functions of the DTCP. - Improvement of urban planning techniques will contribute to the national socio-economic development.  DTCP shall improve their technical training system, data control system and technical development system by utilizing the manual which was produced by JICA study team for upgrading of their city planning and contributing on national socio-economic development.								
5.TYPE OF STUDY	Other										
6.COUNTERPART AGENCY	Dept. of Town and Country Planning(DTCP), Ministry of Interior										
7.OBJECTIVES OF STUDY	Technical transfer on urban planning			2.MAJOR REASONS FOR PRESENT STATUS							
8.DATE OF S/W	Aug.1987										
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd.										
10.STUDY TEAM	No.of Members 11 Period Nov.1987-Feb.1989(13 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>63.37</td> <td>4.33</td> <td>59.04</td> </tr> </tbody> </table>	Total M/M	Japan	Field	63.37	4.33	59.04				
Total M/M	Japan	Field									
63.37	4.33	59.04									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY				3.PRINCIPAL SOURCE OF INFORMATION							
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>(¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>229,891</td> </tr> <tr> <td>Contracted</td> <td>210,450</td> </tr> </tbody> </table>		(¥'000)	Total	229,891	Contracted	210,450	5.technical transfer		①②	
	(¥'000)										
Total	229,891										
Contracted	210,450										

和名 都市計画策定指針作成

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P)

ASE THA/S 105/89

Compiled Mar.1991  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS										
1.COUNTRY	Thailand	1.SITE OR AREA	Whole area of the Kingdom Thailand		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued									
2.NAME OF STUDY	Telecommunications Development	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>1)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>US\$1=145Yen</td> <td>2)</td> <td>6,406,759</td> <td>3,525,379</td> <td>2,881,379</td> </tr> </tbody> </table>			(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost	US\$1=145Yen	2)	6,406,759	3,525,379
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost										
US\$1=145Yen	2)	6,406,759	3,525,379	2,881,379										
3.SECTOR	Communications & Broadcasting/Telecommunication	3.CONTENTS OF MAJOR PROJECT(S)	<p>(Description)</p> <p>1. Further Study (Bangkok Telecommunications Development Study) A further study titled "A Study on Regional Development Plan for Telecommunications Network in the Bangkok Metropolitan Area in the Kingdom of Thailand" was requested by the Government of Thailand in April 1990 on the recommendation of this Study report. The study was conducted from July 1991 to October 1992. The study area is the Bangkok Metropolitan area and its surroundings. The study proposed a 15-year(1993 to 2007) long-term development plan. The study conducted a feasibility study on the top telecommunications service quality from the viewpoints of call completion ratio and fault ratio.</p> <p>2. BOT Project for the 7th 5-year Development Plan(1992-96) JICA Master Plan study recommended the improvement of TOT management including privatization for the future massive telephone network expansion and its smooth operation. Thai Government decided to introduce BOT method (Build, Operation, and Transfer) to implement TOT's 7th 5-year development plan. Two private companies: Telecom Asia Co. and Thai Telephone and Telecommunications Co., were awarded concession by TOT to construct and maintain 2 million local telephone lines network in the BMA and 1 million in the provincial areas respectively. The two companies are now under the construction stage. It is said that Thai Government applied BOT method for the step toward future privatization of TOT. The study report was used as a database and some outputs were utilized in TOR for BOT project.</p>											
4.REFERENCE NO.		<p>1. To install 4,345 thousand new main telephone lines within 15 years from FY 1993. and have total 6,168 thousand lines at the end of FY 2007. To improve telephone density from 3.2 at the end of FY 1992 to 10.7. To meet the telephone demand at the end of 1997.</p> <p>2. To make existing network fully digitized to provide enhanced telecommunications services such as ISDN all over the country at the end of FY 2007.</p> <p>3. The outline of the 15-year telecommunications network expansion plan is as follows: 1) switching systems: 4,491 thousand switching line capacity, 2) transmission systems: 205 systems are to be installed for the long-distance: 189 fiber optical systems(FOTS) for Bangkok Metropolitan area and 511 FOTS and radio transmission systems for the Provincial area as for the spur route transmission system. 3) outside plant(OSP): local cables of 8,088 thousand pairs are to be expanded and 4.1 billion Baht is required as for the rehabilitation of OSP.</p>												
5.TYPE OF STUDY	M/P													
6.COUNTERPART AGENCY	Telephone Organization of Thailand (Corporate Planning Office)													
7.OBJECTIVES OF STUDY	To formulate a long term development plan for the period from FY 1993 to FY 2007 in Thailand	4.CONDITIONS AND DEVELOPMENT IMPACTS	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>Recent rapid economic growth has accelerated shortage problem for the infrastructures. Especially in the telecom sector, there exists waiting applicants for telephone as five times more than the number of annual new installed lines. Thai Government has set the policy guideline in the 5th and 6th Development Plan (ESDP) for improving efficiency in the operations of state enterprises. As for the domestic telephone service, which is now provided dominantly by TOT, the Government has decided that the participation of the private sector was necessary to eliminate the massive shortages for telephone.</p>											
8.DATE OF S/W	Jun.1988	<p>Conditions:</p> <p>1.Fund raising of required investment costs. 2.Improvement of management of TOT such as construction, operation and maintenance, procurement, marketing and customer relations, human resources, organization, budgeting and finance, tariff design, and management information.</p> <p>Development Impacts:</p> <p>1.Fulfillment of national telephone demand and provision of versatile services. 2.Realization of an informationized society and more dynamic and innovative business operation.</p>												
9.CONSULTANT(S)	NTT International Corporation													
10.STUDY TEAM	<p>No.of Members 11</p> <p>Period Sep.1988-Dec.1989(15 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>75.61</td> <td>34.72</td> <td>40.89</td> </tr> </tbody> </table>	Total M/M	Japan	Field	75.61	34.72	40.89	5.technical transfer	<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>					
Total M/M	Japan	Field												
75.61	34.72	40.89												
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		<p>Technical Transfer in Japan was conducted to TOT counterparts, 2 members JICA sponsored and 4 TOT sponsored, while Study period of Work in Japan-2(July and August of 1989) on 41 days about the process of formulating the long term development plan.</p>												
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>220,718 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>212,870</td> </tr> </tbody> </table>			220,718 (¥'000)	Total		Contracted	212,870						
	220,718 (¥'000)													
Total														
Contracted	212,870													

和名 国内電話網拡充長期計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P)

ASE THA/A 103/89

Compiled Mar.1991  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Thailand	1.SITE OR AREA			1.PRESENT STATUS						
2.NAME OF STUDY	Water Management System and Monitoring Program in Chao Phraya River Basin	Whole Chao Phraya Basin			<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
3.SECTOR	Agriculture/General	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    26,554    26,554 US\$1=148Yen    2)		(Description)						
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)	1. Water Management Model Project (6 sites, 786 million bahts for 5 years) 2. Communication System Improvement (radio equipment, 485 mil.bahts for 3 years) 3. Monitoring System Improvement (hydrology equip.& facil. 1.182 mil.bahts for 3 years) 4. Data Control System Improvement (199 mil.bahts for 3 years) 5. Irrigation and Drainage System Improvement (18 billion bahts for 20 years) 6. Study on Comprehensive River Basin Development (not costed) Reviews of existing plans and reformulation of water resource development plans: (1) Bang Pakong River Basin Plan, (2) Upper Pasak River Basin Plan, (3) Groundwater Development Plan (Phichit and Sukhothai), (4) Kwa Noi River Basin Plan, (5) Yom River Basin Plan, (6) Kok-In-Yom-Nan Diversion Plan, (7) Salween River Basin Plan, (8) Sakaekrang River Basin Plan, (9) Wang Thong River Basin Plan, (10) MaeKlong-Chao Phraya Diversion Plan, (11) Lower Ping River Basin Plan (Tak-Kamphaeng Phet Area Development), and (12) other related development plans 7. Study on a Crop Diversification Promotion Center (not costed) Crop-Water relations and marketing & price information		Irrigation Engineering Center (IEC) of a project-type technical cooperation project has plan to examine the water management system, and some of telemetering system was introduced at the site proposed in the water management model project.  (FY 1991 Overseas Survey) No additional information.						
5.TYPE OF STUDY	M/P	4.CONDITIONS AND DEVELOPMENT IMPACTS	Conditions: The proposed projects from (1) to (5) above are each subdivided into four levels, and it is easy to re-calculate the cost relative to a given target selected. The implementation of the Water Management Model Project will help build up experiences and expertise, with which to proceed from one level to next. The project implementation is adjustable relative to budget limitations and capabilities of available instructors.		2.MAJOR REASONS FOR PRESENT STATUS						
6.COUNTERPART AGENCY	Royal Irrigation Department	5.technical transfer	Examination of technical criteria and staff training		3.PRINCIPAL SOURCE OF INFORMATION						
7.OBJECTIVES OF STUDY	To formulate a master plan for efficient and proper management of water resources through evaluation of potential water resources and water availability for agricultural development	10.STUDY TEAM	No.of Members    14 Period Jan.1987-Mar.1989(27 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>157.82</td> <td>49.59</td> <td>108.23</td> </tr> </tbody> </table>		Total M/M	Japan	Field	157.82	49.59	108.23	The water management Model Project will be conducted on technical cooperation scheme. The guideline for the rest of the project will be decided after the result of Model Project.
Total M/M	Japan	Field									
157.82	49.59	108.23									
8.DATE OF S/W	May.1986	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY			①②						
9.CONSULTANT(S)	Sanyu Consultants Inc. Taiyo Consultants Co., Ltd.	12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>570,471 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>474,636</td> </tr> </tbody> </table>		Total	570,471 (¥'000)	Contracted	474,636			
Total	570,471 (¥'000)										
Contracted	474,636										

和名 チャオピア川流域水管理システムおよび監視計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

ASE THA/S 210A/89

Compiled Mar.1991  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS													
1.COUNTRY	Thailand	1.SITE OR AREA	Patum Thani & Prachatipat, Phuket, Su Ngai Golok Phang Nga, Takua Pa, Thung Song.														
2.NAME OF STUDY	Provincial Water Supply Projects	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>233,228</td> <td>117,079</td> <td>116,149</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	233,228	117,079	116,149	2)			
(US\$1,000)	Total Cost	Local Cost	Foreign Cost														
1)	233,228	117,079	116,149														
2)																	
3.SECTOR	Public Utilities/Water Supply	3.CONTENTES OF MAJOR PROJECT(S)	<p>Dam, Intake Facilities, Transmission Facilities, Treatment Facilities and Distribution Facilities.</p> <p>(1) Patum Thani &amp; Prachatipat: Raw Water Intake Water Treatment Plant, Distribution Reservoirs, Distribution and Transmission Pipeline (283,000 m3/day)</p> <p>(2) Phuket: New Water Treatment Plant, Dam, Distribution Reservoirs, Transmission Pipeline</p> <p>Bangnat System (21,300m3/day)</p> <p>Municipality Systs (13,900m3/day)</p> <p>Khlong Katha System (10,900m3/day)</p> <p>Bang Niao Dam System (16,500m3/day)</p> <p>Zone 7 System (21,400m3/day)</p> <p>(3) Su Ngai Golok: Raw Water Intake, Water Treatment Plant, (9,400m3/day)</p> <p>Transmission Pipeline (13,000m)</p> <p>(4) Phang Nga: Raw Water Intake, Transmission Pipeline (21,300m)</p> <p>(5) Takua Pa: Raw Water Intake, Water Treatment Plant (4,300m3/day), Transmission Pipeline</p> <p>(6) Thung Song: Water Treatment Plant, Raw Water Intake, Transmission Pipeline</p>														
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	<p>Major urbanization is observed in Patum Thani &amp; Prachatipat, and Phuket island is a most famous resort in Thailand. Su Ngai Golok is a trading area along boundary. Phang Nga, Takua Pa and Thung Song are main commercial center in the southern region of Thailand. This development Project has a economic viability with several social economic benefits, such as consumer satisfaction, health benefit, land values increase and increased employment opportunities.</p> <p>In financial aspect, however, PWA equity shall be infused or water rates increased to cover the financial deficits.</p>														
5.TYPE OF STUDY	M/P+ (F/S)																
6.COUNTERPART AGENCY	Provincial Waterworks Authority																
7.OBJECTIVES OF STUDY	Preparation of development plans for 7 Provincial Cities Water Supply Projects in Thailand																
8.DATE OF S/W	Mar.1988																
9.CONSULTANT(S)	Nippon Jogesuido Sekkei Co., Ltd.																
10.STUDY TEAM	<p>No.of Members 9</p> <p>Period Jul.1988-Mar.1990 (21 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>58.23</td> <td>26.04</td> <td>32.19</td> </tr> </tbody> </table>	Total M/M	Japan	Field	58.23	26.04	32.19										
Total M/M	Japan	Field															
58.23	26.04	32.19															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey Soil Investigation																
12.EXPENDITURE	<p>Total 355,723 (¥'000)</p> <p>Contracted 164,359</p>	5.TECHNICAL TRANSFER	<p>Through the study, planning, demand forecasting, design of each facilities and O&amp;M management method has been transferred to counterparts.</p>														
		1.PRESENT STATUS	<p><input checked="" type="checkbox"/> In Progress or In Use</p> <p><input type="checkbox"/> Delayed</p> <p><input type="checkbox"/> Discontinued</p>														
		(Description)	<p>Patum Thani &amp; Prachatipat, Phuket</p> <p>PWA intends to propose these package project to Japanese government for OECF yen credit.</p> <p>Su Nagi Golok</p> <p>This project will be carried out by PWA's own equity.</p> <p>Other projects</p> <p>PWA intends to request these projects to Japanese government for grant aid projects.</p>														
		2.MAJOR REASONS FOR PRESENT STATUS	<p>There are very higher economic and social efficiency in investment of these projects. AEAs compared to financing capability of government of Thailand, these projects need more capital costs.</p>														
		3.PRINCIPAL SOURCE OF INFORMATION	①														

和名 地方都市水道整備計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1991  
Revised Mar.1993

ASE THA/S 210B/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Thailand	1.SITE OR AREA	Patum Thani & Prachatipat, Phuket, Su Ngai Golok																		
2.NAME OF STUDY	Provincial Water Supply Projects	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>233,228</td> <td>117,079</td> <td>116,149</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	233,228	117,079	116,149	2)				3)			
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	233,228	117,079	116,149																		
2)																					
3)																					
3.SECTOR	Public Utilities/Water Supply	3.CONTENTS OF MAJOR PROJECT(S)	<p>(1) Patum Thani &amp; Prachatipat Raw Water Intake, Water Treatment Plant, Distribution Reservoirs, Distribution and Transmission Pipelines</p> <p>(2) Phuket New Water Treatment Plant 3, Raw Water Dam 3, Distribution Pipeline</p> <p>(3) Su Ngai Golok Raw Water Intake, Water Treatment Plant, Distribution Reservoirs and Transmission Pipe</p>																		
4.REFERENCE NO.		<p>(Description)</p> <p>Patum Thani &amp; Prachatipat, Phuket PWA intends to propose these package projects to Japanese government for OECF yen credit.</p> <p>Su Nagi Golok This project will be carried out by PWA's own equity.</p> <p>(FY 1991 Overseas Survey) Promoting by a private company in the form of privatization. Detail Design: From year 1992 to year 1993 Constructin : From year 1994 to year 1995</p> <p>(FY 1992 Overseas Survey) Waiting for the answer.</p>																			
5.TYPE OF STUDY	(M/P)+F/S																				
6.COUNTERPART AGENCY	Provincial Waterworks Authority																				
7.OBJECTIVES OF STUDY	To conduct F/S in Phuket, Prachatipat, Patum Thani and Su Ngai Golok																				
8.DATE OF S/W	Mar.1988	Imp. Period:	.1990-.1996																		
9.CONSULTANT(S)	Nippon Jagesuido Sekkei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	<table border="1"> <thead> <tr> <th></th> <th>EIRR1</th> <th>9.50</th> <th>FIRR1</th> <th>17.00</th> </tr> </thead> <tbody> <tr> <td></td> <td>EIRR2</td> <td>7.44</td> <td>FIRR2</td> <td>12.67</td> </tr> <tr> <td></td> <td>EIRR3</td> <td>11.63</td> <td>FIRR3</td> <td>0.31</td> </tr> </tbody> </table>			EIRR1	9.50	FIRR1	17.00		EIRR2	7.44	FIRR2	12.67		EIRR3	11.63	FIRR3	0.31	
	EIRR1	9.50	FIRR1	17.00																	
	EIRR2	7.44	FIRR2	12.67																	
	EIRR3	11.63	FIRR3	0.31																	
10.STUDY TEAM	<p>No.of Members 9</p> <p>Period Jul.1988-Mar.1990(21 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>58.23</td> <td>26.04</td> <td>32.19</td> </tr> </tbody> </table>	Total M/M	Japan	Field	58.23	26.04	32.19	<p>Conditions and Development Impacts:</p> <p>Major urbanization is observed in Patum Thani &amp; Prachatipat, and Phuket island is a most famous resort in Thailand. Su Ngai Golok is a trading area along boundary. So, investment of this project bring many social and economic benefits, such as, incremental of served population, land value increase, health benefit and tourism income increase.</p>													
Total M/M	Japan	Field																			
58.23	26.04	32.19																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey Soil Investigation	5.technical transfer	<p>Through the study, planning, demand forecasting, design of each facilities and O &amp; M management method has been transferred to counterpart.</p>																		
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>355,723 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>164,359</td> <td></td> </tr> </tbody> </table>		Total	355,723 (¥'000)	Contracted	164,359		<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>There are very higher economic and social efficiency in investment of these project. As compared to financing capability of government of Thailand, these projects need more capital costs.</p>													
	Total	355,723 (¥'000)																			
Contracted	164,359																				
		<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>																			

和名 地方都市水道整備計画

{F/S,(M/P)+F/S,D/D}

## PROJECT SUMMARY (M/P+F/S)

ASE THA/S 209A/89

Compiled Mar. 1991  
Revised Mar. 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS																
1. COUNTRY	Thailand	1. SITE OR AREA	Medium and long - term road plan Area within the, Outer Ring Road		1. PRESENT STATUS															
2. NAME OF STUDY	Medium to Long Term Improvement / Management Plan of Road and Road Transport in Bangkok	2. PROJECT COST	<table> <tr> <td>(US\$1,000)</td> <td></td> <td>Total Cost</td> <td>Local Cost</td> <td>Foreign Cost</td> </tr> <tr> <td></td> <td>1)</td> <td>5,007,320</td> <td>2,164,880</td> <td>2,842,440</td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> </tr> </table>		(US\$1,000)		Total Cost	Local Cost	Foreign Cost		1)	5,007,320	2,164,880	2,842,440		2)				<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
(US\$1,000)		Total Cost	Local Cost	Foreign Cost																
	1)	5,007,320	2,164,880	2,842,440																
	2)																			
3. SECTOR	Transportation/Urban Transportation	3. CONTENTS OF MAJOR PROJECT(S)	(Description) Concerning the expressway, arterial roads and bus way projects proposal in the M/P and in accordance with the request of BMA issued in May 1990, IECA dispatched a preliminary study team to undertake the necessary studies in order to formulate the bus way project. Based on the report of the IECA Study BMA intends to prepare an official request to have this project implemented under JICA aid.																	
4. REFERENCE NO.																				
5. TYPE OF STUDY	M/P+ (F/S)																			
6. COUNTERPART AGENCY	Bangkok Metropolitan Administration (BMA)																			
7. OBJECTIVES OF STUDY	Medium an Long-term road plan. (M/P) Area traffic control (ATC) system (F/S) Common utility duct (CUD) system	4. CONDITIONS AND DEVELOPMENT IMPACTS	2. MAJOR REASONS FOR PRESENT STATUS																	
8. DATE OF S/W	Apr. 1988																			
9. CONSULTANT(S)	Yachiyo Engineering Co., Ltd. ALMEC Corporation International Engineering Consultants Association	In order to meet the future transportation demand of both private and public modes at certain service levels, the study revealed that a package of road projects, comprising expressways (a total of 184km), segregated bus-ways (121km), at-grade main roads (599km) and distributors (56km specifically identified only in and around the city centre) has to be implemented by year 2006, in addition to the development of the extended LRT system (91km) and elevated Northern Line of SRT (45km). All these projects are economically viable.																		
10. STUDY TEAM	No. of Members 18 Period Nov. 1988-Mar. 1990 (17 months) <table> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td>127.24</td> <td>55.37</td> <td>71.87</td> </tr> </table>	Total M/M				Japan	Field	127.24	55.37	71.87										
Total M/M	Japan	Field																		
127.24	55.37	71.87																		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Common utility duct data collection survey Traffic survey	5. TECHNICAL TRANSFER	3. PRINCIPAL SOURCE OF INFORMATION ①																	
12. EXPENDITURE	<table> <tr> <td>Total</td> <td>448,795 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>424,258</td> </tr> </table>	Total	448,795 (¥'000)	Contracted	424,258	Accepted of trainees : 3 persons Seminar was held in Bangkok with the attendance of about 300 people.														
Total	448,795 (¥'000)																			
Contracted	424,258																			

和名 バンコク首都圏中・長期道路交通計画

{M/P,M/P+(F/S),Basic Study,Other}



## PROJECT SUMMARY (M/P+F/S)

ASE THA/S 209B/89

Compiled Mar. 1991  
Revised Mar. 1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT									
1. COUNTRY	Thailand	1. SITE OR AREA	ATC Project: Area within the Middle Ring Road and adjacent areas (235 intersections) CUD Project: Area within the Middle Ring Road.										
2. NAME OF STUDY	Medium to Long Term Improvement / Management Plan of Road and Road Transport in Bangkok	2. PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>43,840</td> <td>15,767</td> <td>28,073</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	43,840	15,767	28,073
	Total Cost	Local Cost	Foreign Cost										
(US\$1,000)	43,840	15,767	28,073										
3. SECTOR	Transportation/Urban Transportation	3. CONTENTS OF MAJOR PROJECT(S)	(ATC)..... Improvement and expansion of the area traffic control system. 1. Stage I 143 intersections 2. State II 92 intersections (CUD).....Case Study 1. Trunk line CUD.....1,200m 2. Supply line CUD.....700m										
4. REFERENCE NO.		(Description) 1) Based on the ATC F/S study, the detailed design and tender documents were prepared from March to November of 1990 for the project under the JICA study titled "The Detailed Design Study on Area Traffic Control Project in Bangkok". 2) The Government of Thailand has decided to construct the exclusive road for automobiles utilizing San Saep Canal by BOT, and is now negotiating with interested private investors. 3) The Government is requesting a JICA feasibility study on the exclusive bus road proposed by the study.  (FY 1992 Overseas Survey) Waiting for the answer.											
5. TYPE OF STUDY	(M/P)+F/S												
6. COUNTERPART AGENCY	Bangkok Metropolitan Administration (BMA)												
7. OBJECTIVES OF STUDY	Medium an Long-term road plan. (M/P) Area traffic control (ATC) system (F/S) Common utility duct (CUD) system												
8. DATE OF S/W	Apr.1988	Imp. Period:	.1990-.1993										
9. CONSULTANT(S)	Yachiyo Engineering Co., Ltd. ALMEC Corporation International Engineering Consultants Association	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)								
10. STUDY TEAM	No. of Members 18 Period Nov.1988-Mar.1990 (17 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>127.24</td> <td>55.37</td> <td>71.87</td> </tr> </tbody> </table>	Total M/M	Japan	Field	127.24	55.37	71.87	Conditions and Development Impacts: (ATC) Making observations on current conditions and analyzing traffic survey results, the problems related to the ATC system in particular were evaluated and organized in a relevant manner. In order to evaluate the effectiveness of the ATC system in controlling traffic the total vehicle operating cost (VOC) and travel time cost (TTC) were estimated. In addition, an implementation program for the recommended plan was evaluated on the basis of the economic analysis. (Note) B/C Ratio 1.16					
Total M/M	Japan	Field											
127.24	55.37	71.87											
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Common utility duct data collection survey Traffic survey	2. MAJOR REASONS FOR PRESENT STATUS											
12. EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>448,795 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>424,258</td> </tr> </tbody> </table>		448,795 (¥'000)	Total		Contracted	424,258	3. PRINCIPAL SOURCE OF INFORMATION					
	448,795 (¥'000)												
Total													
Contracted	424,258												
		①											

和名 バンコク首都圏中・長期道路交通計画

$$\{F/S, (M/P) + F/S, D/D\}$$

# PROJECT SUMMARY (M/P+F/S)

ASE THA/A 203A/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS																																											
1.COUNTRY	Thailand	1.SITE OR AREA	Sebai-Sebok-Tanq Lung Rivers' Basins in Ubon Ratchathani and Yasothan of Northeastern Thailand		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued																																										
2.NAME OF STUDY	Sebai-Sebok Basin Development Project	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)    1)    157,154 US\$1=130 yen    2)																																												
3.SECTOR	Agriculture/General	3.CONTENT(S) OF MAJOR PROJECT(S)	(Description)  In case of implementation, either provision of yen-credit for the entire program or application for grant aid for individual project can be considered. However as of now, no particular intention was shown by RID.  (FY 1991 Overseas Survey) No additional information.																																												
4.REFERENCE NO.																																															
5.TYPE OF STUDY	M/P+ (F/S)	The Study (Phase I) evaluated water and land resource potentials in the three basins of Sebai, Sebok and Tanq Lung Rivers and formulated a two-stage Master plan. Major agricultural infrastructural development Projects: 1. Short-term Plan (1990 - 1996) <table border="1"> <thead> <tr> <th></th> <th>No. of projects</th> <th>Irrig. Area (ha)</th> <th>Cost (million yen)</th> </tr> </thead> <tbody> <tr> <td>Medium-size water storage</td> <td>14</td> <td>18,750</td> <td>8,360</td> </tr> <tr> <td>Pumping stations (Pak Mung)</td> <td>7</td> <td>5,400</td> <td>1,880</td> </tr> <tr> <td>Medium-size rehabilitation</td> <td>5</td> <td>5,090</td> <td>390</td> </tr> <tr> <td>Total</td> <td>26</td> <td>29,240</td> <td>10,630</td> </tr> </tbody> </table> 2. Medium-term Plan (1996 - 2000) <table border="1"> <thead> <tr> <th></th> <th>No. of projects</th> <th>Irrig. Area (ha)</th> <th>Cost (million yen)</th> </tr> </thead> <tbody> <tr> <td>Medium-size water storage</td> <td>12</td> <td>7,260</td> <td>5,640</td> </tr> <tr> <td>Small-size water storage</td> <td>87</td> <td>4,350</td> <td>1,560</td> </tr> <tr> <td>Small river diversion</td> <td>40</td> <td>2,600</td> <td>1,040</td> </tr> <tr> <td>Pump stations</td> <td>41</td> <td>4,030</td> <td>1,560</td> </tr> <tr> <td>Total</td> <td>180</td> <td>18,240</td> <td>9,800</td> </tr> </tbody> </table>			No. of projects	Irrig. Area (ha)	Cost (million yen)	Medium-size water storage	14	18,750	8,360	Pumping stations (Pak Mung)	7	5,400	1,880	Medium-size rehabilitation	5	5,090	390	Total	26	29,240	10,630		No. of projects	Irrig. Area (ha)	Cost (million yen)	Medium-size water storage	12	7,260	5,640	Small-size water storage	87	4,350	1,560	Small river diversion	40	2,600	1,040	Pump stations	41	4,030	1,560	Total	180	18,240	9,800
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6.COUNTERPART AGENCY	RID (Royal Irrigation Dept.), Ministry of Agriculture and Cooperatives	4.CONDITIONS AND DEVELOPMENT IMPACTS		2.MAJOR REASONS FOR PRESENT STATUS																																											
7.OBJECTIVES OF STUDY	Preparation of a basin-wise agricultural development plan and feasibility study of the priority projects	Conditions: 1) Along with the progress of construction works, it is necessary to secure support services such as extension services on improved farming methods, supply of agricultural inputs and appropriate water management. 2) On-farm land development is necessary in step with the construction of main canals. 3) 20% of the irrigable area will be planted with upland crops during the dry season.  Development impacts: 1) The Project will increase the irrigated area to 42,390ha, and the percentage of irrigation will rise from the current 6% to 18%. 2) The average yield of wetland paddy will increase from the present 1.7 - 1.9 tons per hectare to 3.1 - 4.0 tons per hectare.																																													
8.DATE OF S/W	Apr.1988	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION																																											
9.CONSULTANT(S)	Sanyu Consultants Inc. Nalgai Engineering Co., Ltd.																																														
10.STUDY TEAM	No. of Members    9 Period    Sep.1988-Nov.1989 (14 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>62.63</td> <td>25.63</td> <td>37.00</td> </tr> </tbody> </table>	Total M/M	Japan	Field	62.63	25.63	37.00	Technical transfer has been done properly through the process of various studies and surveys, the course of plan formulation and discussion and preparation and submission of the report.		Since there are many pending requests for loan and/or grant in Thailand, and annual implementation programs in recent years have been fully occupied, materialization of this project under technical or economical assistance of Japan seems to wait several years more.																																					
Total M/M	Japan	Field																																													
62.63	25.63	37.00																																													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																																															
12.EXPENDITURE	Total    202,871 (¥'000) Contracted    196,966																																														

和名 セバイ・セボック流域開発計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

ASE THA/A 203B/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																													
1.COUNTRY	Thailand	1.SITE OR AREA	Priority areas in the basins of Sebai, Sebok and Tang Lung Rivers																														
2.NAME OF STUDY	Sebai-Sebok Basin Development Project	2.PROJECT COST	<table border="1"> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> <tr> <td>(US\$1,000)</td> <td>65,308</td> <td>34,231</td> <td>31,077</td> </tr> <tr> <td>US\$1=130 yen</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	65,308	34,231	31,077	US\$1=130 yen																			
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(US\$1,000)	65,308	34,231	31,077																														
US\$1=130 yen																																	
3.SECTOR	Agriculture/General	3.CONTENT(S) OF MAJOR PROJECT(S)	<p>The Study examined the feasibility of five priority projects selected from 14 medium-size water storage projects proposed in the Short-term Development Plan.</p> <table border="1"> <tr> <th>Project</th> <th>River Basin</th> <th>Irrig.Area (ha)</th> <th>Cost (million yen)</th> </tr> <tr> <td>Laem S---</td> <td>Sebai</td> <td>1,100</td> <td>1,130</td> </tr> <tr> <td>H---K---K---</td> <td>Sebok</td> <td>2,600</td> <td>2,410</td> </tr> <tr> <td>H---K---Pak Wang</td> <td>Sebok</td> <td>960</td> <td>1,220</td> </tr> <tr> <td>H---N---K---</td> <td>Sebok</td> <td>2,100</td> <td>2,120</td> </tr> <tr> <td>H---S---</td> <td>Tang Lung</td> <td>920</td> <td>1,610</td> </tr> <tr> <td>Total</td> <td></td> <td>7,670</td> <td>8,490</td> </tr> </table>			Project	River Basin	Irrig.Area (ha)	Cost (million yen)	Laem S---	Sebai	1,100	1,130	H---K---K---	Sebok	2,600	2,410	H---K---Pak Wang	Sebok	960	1,220	H---N---K---	Sebok	2,100	2,120	H---S---	Tang Lung	920	1,610	Total		7,670	8,490
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4.REFERENCE NO.		<p>(Description)</p> <p>In case of implementation, either provision of yen-credit for the entire program or application for grant aid for individual project can be considered. However as of now, no particular intention was shown by RID.</p> <p>(FY 1991 Overseas Survey) No additional information.</p>																															
5.TYPE OF STUDY	(M/P)+F/S																																
6.COUNTERPART AGENCY	RID (Royal Irrigation Dept.), Ministry of Agriculture and Cooperatives																																
7.OBJECTIVES OF STUDY	Preparation of a basin-wise agricultural development plan and feasibility study of the priority projects																																
8.DATE OF S/W	Apr.1988	Imp. Period:																															
9.CONULTANT(S)	Sanyu Consultants Inc. Naigai Engineering Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 8.60 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)																												
10.STUDY TEAM	No.of Members 9 Period Sep.1988-Nov.1989 (14 months)	<p>Conditions and Development Impacts:</p> <p>Development impacts:</p> <ol style="list-style-type: none"> <li>Irrigation development of 7,670 ha</li> <li>Increase of production wetland paddy 18,942 tons, upland crops 7,361 tons, inland water fisheries 585 tons</li> <li>Increase of the typical farmer's income (3.2 ha)</li> </ol> <table border="1"> <tr> <th></th> <th>Before Project</th> <th>With Project</th> </tr> <tr> <td>Non-agri. income</td> <td>8,871 bahts</td> <td>8,871 bahts</td> </tr> <tr> <td>Farmer's income</td> <td>19,942</td> <td>57,956</td> </tr> </table> <p>4. EIRR for the total of 5 priority projects is 8.6%.</p> <p>5. The Project supplies water not only for irrigation but for village households and village reservoirs, and contributes to the improvement of the living environment.</p>					Before Project	With Project	Non-agri. income	8,871 bahts	8,871 bahts	Farmer's income	19,942	57,956																			
	Before Project	With Project																															
Non-agri. income	8,871 bahts	8,871 bahts																															
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11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER																															
12.EXPENDITURE	Total 202,871 (¥'000) Contracted 196,966	<p>Technical transfer has been done properly through the process of various studies and surveys, the course of plan formulation and discussion and preparation and submission of the report.</p>																															
		2.MAJOR REASONS FOR PRESENT STATUS																															
		3.PRINCIPAL SOURCE OF INFORMATION																															
		①②																															

和名 セバイ・セボック流域開発計画

(F/S,(M/P)+F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE THA/S 322/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Thailand	1.SITE OR AREA	Bangkok City Study Area 380 sq.km Population 3.7 million														
2.NAME OF STUDY	Purification of Klong Water in Bangkok	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>8,920</td> <td>6,120</td> <td>2,800</td> </tr> <tr> <td>US\$1=145Yen</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	8,920	6,120	2,800	US\$1=145Yen			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	8,920	6,120	2,800														
US\$1=145Yen																	
3.SECTOR	Public Utilities/Sewerage	3.CONTENT(S) OF MAJOR PROJECT(S)	<p>An urgent water quality improvement for the Klong with the introduction of dilution water from the Chao Phraya River by remodeling the existing gates and pumps that are utilized for drainage only at present.</p> <p>Aerated lagoon treatment of Klong water in two ponds to realize a net pollution load reduction and to abate water quality deterioration of the Chao Phraya River by the dilution water introduction.</p>														
4.REFERENCE NO.																	
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	Department Drainage and Sewerage, Bangkok Metropolitan Administration																
7.OBJECTIVES OF STUDY	Urgent Klong Water Purification in Bangkok																
8.DATE OF S/W	Sep.1987	Imp. Period:	.1990-.2000														
9.CONSULTANT(S)	Pacific Consultants International Tokyo Engineering Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </tbody> </table> <p>Conditions and Development Impacts:</p> <p>The project component of dilution water introduction and aerated lagoon treatment are only urgent water pollution control measures. As such, large scale structural measures are not proposed. The dilution water introduction will improve the Klong water quality resulting in a very significant improvement of color and order. The aerated lagoons will contribute to a net pollution load reduction which will more than offset the anticipated increase in pollution load discharge to the Chao Phraya River due to the introduction of dilution water to the klongs.</p>			Feasibility:	EIRR1)	FIRR1)	Yes/No	EIRR2)	FIRR2)		EIRR3)	FIRR3)			
Feasibility:	EIRR1)	FIRR1)															
Yes/No	EIRR2)	FIRR2)															
	EIRR3)	FIRR3)															
10.STUDY TEAM	<p>No.of Members 10</p> <p>Period Dec.1987-Feb.1990 (27 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>56.47</td> <td>20.01</td> <td>36.46</td> </tr> </tbody> </table>	Total M/M	Japan	Field	56.47	20.01	36.46										
Total M/M	Japan	Field															
56.47	20.01	36.46															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey Construction of Aerated Lagoon Treatment System	5.technical transfer	<p>Consecutive observation of klong water quality and water flow.</p> <p>Simulation analysis of klong water quality by computer.</p>														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>236,286 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>206,294</td> </tr> </tbody> </table>		236,286 (¥'000)	Total		Contracted	206,294										
	236,286 (¥'000)																
Total																	
Contracted	206,294																
		<p>1.PRESENT STATUS</p> <p> <input checked="" type="checkbox"/> Completed or in Progress    <input type="checkbox"/> Promoting  <input type="checkbox"/> Completed    <input type="checkbox"/> Delayed or Suspended  <input type="checkbox"/> Implementing    <input type="checkbox"/> Discontinued or Cancelled  <input checked="" type="checkbox"/> Processing         </p> <p>(Description)</p> <p>Two JICA experts are dispatched to the Department of Drainage and Sewerage of Bangkok Metropolitan Administration, the executing agency of the project. And the experts are also engaged in promoting the implementation of the project.</p> <p>(FY1991 Overseas Survey)</p> <p>Detailed design</p> <p>Period: 1991 - present (including the simulation study of water quality)</p> <p>Consultant's country: Thailand</p> <p>Source of finance: Thai Government</p> <p>Construction</p> <p>Period: 1993-</p> <p>Country of main contractors: Thailand</p> <p>(FY1992 Overseas Survey)</p> <p>Waiting for the answer.</p>															
		2.MAJOR REASONS FOR PRESENT STATUS															
		3.PRINCIPAL SOURCE OF INFORMATION															
		①②															

和名 バンコク市クローン水質改善計画

{F/S,(M/P)+F/S,D/D}

# PROJECT SUMMARY (F/S)

ASE THA/S 323/89

Compiled Mar.1991  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																
1.COUNTRY	Thailand	1.SITE OR AREA	Bangkok and Laem Chabang																	
2.NAME OF STUDY	Measures to Promote the Container Handling System through Laem Chabang Port	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>47,461</td> <td>21,420</td> <td>11,020</td> </tr> <tr> <td>US\$=Baht.25.6=133 yen</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	47,461	21,420	11,020	US\$=Baht.25.6=133 yen						
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	47,461	21,420	11,020																	
US\$=Baht.25.6=133 yen																				
3.SECTOR	Transportation/Port	3.CONTENTES OF MAJOR PROJECT(S)	<p>Construction of an inland container depot(ICD) (Long-term) a 48ha ICD including 6 CFSs for handling 2.1 million tons of container cargo in 2001. (6 berths) (Short-term) a 32ha ICD including 4 CFSs for handling 1.3 million tons of container cargo in 1996.</p> <p>Stage 1: container berth 2, break-bulk berth 1, aqri-bulk loading facilities (total 4 berths)</p> <p>1) Facilities in each ICD: container freight station, container yard, container handling machines, gates, office, maintenance repair shop, parking space.</p> <p>2) Administration Zone: main office 1,200sq.m, overtime cargo warehouse 2,100sq. m</p> <p>3) Spur Line: The Lat Krabang ICD will be connected to the Eastern Line. (radius at least 300m, length 500m)</p>																	
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>17.60</th> <th>FIRR1)</th> <th>6.50</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </tbody> </table>			Feasibility:	EIRR1)	17.60	FIRR1)	6.50	Yes	EIRR2)		FIRR2)			EIRR3)		FIRR3)	
Feasibility:	EIRR1)	17.60	FIRR1)	6.50																
Yes	EIRR2)		FIRR2)																	
	EIRR3)		FIRR3)																	
5.TYPE OF STUDY	F/S	<p>Conditions and Development Impacts:</p> <p>Conditions:</p> <p>a) Economic Growth Rate: 6.5%(-1990),5%(1991- )</p> <p>b) Container Cargo Volume in Thailand:</p> <p>1996 15,560,000tons(1,487,000TEUS) / 2001 19,832,000tons(1,818,000TEUS)</p> <p>c) Laem Chabang Port Development:</p> <p>container cargo 1996: 6.8 million tons(638,000TEUS) 2001: 10.6 million tons(953,000TEUS)</p> <p>container berth 1996: 4, 2001:6</p> <p>Development Impact:</p> <p>Reduction of freight cost by effectuating container transport system, promotion of economic growth, increase in employment opportunities, reduction of traffic congestion between the ICD and Laem Chabang Port, saving in customs clearance cost.</p>																		
6.COUNTERPART AGENCY	OESB, NESDB, NOTC, PAT, SRT, BSAA	<p>Imp. Period: .1989-Aug.1991 .1994-.1996</p>																		
7.OBJECTIVES OF STUDY	To recommend the effective container handling system between Laem Chabang Port and Bangkok Port and the effective port management and operation system focusing on the development of IDC.	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>This project is a main part of the Development Project of Laem Chabang Coastal Area which is planned as a national project.</p> <p>(FY 1991 Overseas Survey)</p> <p>There are several private companies operating ICDs on Bangna Trad Highway near Lard Krabang ICD.</p>																		
8.DATE OF S/W	Dec.1987	<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②④</p>																		
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Ja Pacific Consultants International	<p>5.technical transfer</p> <p>1.Promotion of technical transfer by joint study 2.Promotion of technical transfer by employing a local consultant for O/D survey 3.Counterpart training</p>																		
10.STUDY TEAM	<p>No.of Members 12</p> <p>Period Mar.1988-Jul.1989(16 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>71.80</td> <td>31.90</td> <td>39.90</td> </tr> </tbody> </table>	Total M/M	Japan	Field	71.80	31.90	39.90	<p>12.EXPENDITURE</p> <table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>190,597 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>188,539</td> <td></td> </tr> </tbody> </table>					Total	190,597 (¥'000)	Contracted	188,539				
Total M/M	Japan	Field																		
71.80	31.90	39.90																		
	Total	190,597 (¥'000)																		
Contracted	188,539																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	O/D Survey																			

和名 ラムチャバン港輸送施設計画

{F/S,(M/P)+F/S,D/D}

# PROJECT SUMMARY (F/S)

ASE THA/A 313/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Thailand	1.SITE OR AREA	Chantaburi River Basin (East Coast)																		
2.NAME OF STUDY	Agricultural Water Development Project on Chantaburi River Basin	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>122,000</td> <td>42,000</td> <td>80,000</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	122,000	42,000	80,000	2)				3)			
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	122,000	42,000	80,000																		
2)																					
3)																					
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	<p>The Project aims to stabilize and expand the fruit production by controlling the unfavorable effects of occasional droughts and water shortages during the dry season.</p> <p>1. Storage Dams:</p> <table border="1"> <thead> <tr> <th></th> <th>Type</th> <th>Cap. (cu.m)</th> <th>Dam Height (m)</th> <th>Embankment (cu.m)</th> </tr> </thead> <tbody> <tr> <td>Khlong Ta Liu Dam:</td> <td>rock-fill</td> <td>35.85 million</td> <td>87.5</td> <td>4,700,000</td> </tr> <tr> <td>Khlong San Sai Dam:</td> <td>earth</td> <td>10.55</td> <td>16.2</td> <td>571,000</td> </tr> </tbody> </table> <p>2. Diversion Weir: water intake 3.5 cu.m/sec.</p> <p>3. Water Conveyance Pipeline: Length 111.6km, dias. 350mm - 1,600mm</p> <p>4. Main Pumping Stations: 3 places (dia.150mm, 200mm, and 250mm)</p>				Type	Cap. (cu.m)	Dam Height (m)	Embankment (cu.m)	Khlong Ta Liu Dam:	rock-fill	35.85 million	87.5	4,700,000	Khlong San Sai Dam:	earth	10.55	16.2	571,000	
	Type	Cap. (cu.m)	Dam Height (m)	Embankment (cu.m)																	
Khlong Ta Liu Dam:	rock-fill	35.85 million	87.5	4,700,000																	
Khlong San Sai Dam:	earth	10.55	16.2	571,000																	
4.REFERENCE NO.		<p>(Description)</p> <p>In 1989 RID requested to MOAC that yen loan should be applied for the implementation of this project, but the request for loan has not yet been made.</p> <p>A D/D study is under way with GOT finance. The project will be implemented with GOT finance. (as of March 1993)</p> <p>(FY1991 Overseas Survey)</p> <p>The project is tentatively incorporated in the Seventh National Plan (1992-1996).</p> <p>(FY1992 Overseas Survey)</p> <p>Waiting for the answer.</p>																			
5.TYPE OF STUDY	F/S																				
6.COUNTERPART AGENCY	Royal Irrigation Department, Ministry of Agriculture and Cooperatives (MOAC)																				
7.OBJECTIVES OF STUDY	Feasibility study on water resources development plan within the subject river basin and irrigation plan for fruits plantation																				
8.DATE OF S/W	Mar.1987	Imp. Period:																			
9.CONSULTANT(S)	Sanyu Consultants Inc. Pacific Consultants International Integrated Technology Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 14.60 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)																
10.STUDY TEAM	No.of Members 10 Period Mar.1988-Jul.1989(16 months)	<p>Conditions and Development Impacts:</p> <p>The Project Area has annual rainfalls of 2,500mm and is known for its tropical fruits. The marketing system is fairly developed, but because of the less than adequate state of agricultural infrastructure often causes water shortage during the dry season. The proposed project will solve this water stress, and increase the production and improve the quality of fruits for export.</p> <p>Condition:</p> <ul style="list-style-type: none"> <li>- Cost-sharing by the beneficiaries is 20% of the total project cost.</li> </ul> <p>Development impacts:</p> <ul style="list-style-type: none"> <li>- Additional area of 3,500 ha planted to fruits, and an increase of production by 97,000 tons</li> <li>- 20% of the present rubber-planted area, and from 30% to 40% of the upland normally used for cassava growing will be converted to orchards.</li> <li>- An increase of the typical farmer's cash income will range from 47% to 110%.</li> </ul>																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER																			
12.EXPENDITURE	Total 203,038 (¥'000) Contracted 193,112	On the job training																			
		2.MAJOR REASONS FOR PRESENT STATUS																			
		Due to high priority of the project among the irrigated agricultural development sector in Thailand, particularly with the request of project area.																			
		3.PRINCIPAL SOURCE OF INFORMATION																			
		①②																			

和名 チャンタブリ川流域農業水利開発計画

(F/S,(M/P)+F/S,D/D)

## PROJECT SUMMARY (M/P)

ASE THA/S 107/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1. COUNTRY	Thailand	1. SITE OR AREA	Ayutthaya, Saraburi, Lopburi, Angthong, Singburi, and Chainat Area=16450 s.km, Population = 3740000 (1987)								
2. NAME OF STUDY	Upper Central Region Study	2. PROJECT COST	<div style="display: flex; justify-content: space-between;"> <div>(US\$1,000)</div> <div> 1) 2) </div> </div>								
3. SECTOR	Development Plan/Integrated Regional Development Plan	3. CONTENTS OF MAJOR PROJECT(S)	Integrated Pasak River Basin Development Package (6 projects) Greater Saraburi Industrial Core Development Package (15 projects) Agro-Industrial Linkage Development Package (6 projects) Human Resources Development Package (3 projects)  * Project costs above were not calculated.								
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS	1. Regional macro-economic framework Population increase = 1%/year ; agricultural production : 3%/year; industrial production = 7%/year; service sector will grow according to agriculture and industrial sector. Regional production per capita will increase at 5%/year by 2010. 2. Impacts Gross regional production will become four times of 1987. Agriculture sector employment will shift to industry sector and it will reduce out-migration of regional population. Maintain the role of national food production center and the sound environment by the balanced development of agriculture and industry.								
5. TYPE OF STUDY	M/P	5. TECHNICAL TRANSFER	1. Saraburi Seminar was held with Interim Report presentation; Pattaya Seminar was held with Draft Final Report presentation 2. Study Tour in Japan for six NESDB counterpart officials.								
6. COUNTERPART AGENCY	National/Economic and Social Development Board (NESDB)	6. MAJOR REASONS FOR PRESENT STATUS	1. Proposed measures of development management can be applied to national development strategies. 2. Proposed development projects in the study region are the part of national development programs.								
7. OBJECTIVES OF STUDY	Preparation of regional development plan toward the year of 2010	7. PRINCIPAL SOURCE OF INFORMATION	1. Saraburi Seminar was held with Interim Report presentation; Pattaya Seminar was held with Draft Final Report presentation 2. Study Tour in Japan for six NESDB counterpart officials.								
8. DATE OF S/W	Jul. 1988	8. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued								
9. CONSULTANT(S)	International Development Center of Japan Pacific Consultants International	9. DESCRIPTION	The Seventh National Economic and Social Development Plan for the 1992 to 1996 will incorporate the proposed development projects and programs. Preparation of the National Plan is now under progress.  (FY 1991 Overseas Survey) Suphan Buri - Tha Rua - Saraburi Highway is under construction. The following F/S are planned: - Pasak Dam Development Project Period: From July 1992 to July 1993 Executing Agency: Royal Irrigation Department Source of Finance: Thai Government - Environmental Monitoring and Management Project Period: From Sept. 1992 to the end of 1992 Looking for foreign assistance - Great Saraburi Industrial Core Planning Study Seeking for foreign assistance. Wishes technical supports from the Government of Japan.  (FY 1992 Overseas Survey) Waiting for the answer.								
10. STUDY TEAM	No. of Members 19 Period Dec. 1988-Jul. 1990 (19 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>113.89</td> <td>4.07</td> <td>109.82</td> </tr> </tbody> </table>	Total M/M	Japan	Field	113.89	4.07	109.82	10. STUDY TEAM	1. Saraburi Seminar was held with Interim Report presentation; Pattaya Seminar was held with Draft Final Report presentation 2. Study Tour in Japan for six NESDB counterpart officials.		
Total M/M	Japan	Field									
113.89	4.07	109.82									
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Socio-economic study Distribution Study Landsat Image Analysis	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Socio-economic study Distribution Study Landsat Image Analysis								
12. EXPENDITURE	Total 345,499 (¥'000) Contracted 330,355	12. EXPENDITURE	Total 345,499 (¥'000) Contracted 330,355								

和名 中央平原北部地域総合開発計画

{M/P,M/P+(F/S),Basic Study,Other}

## PROJECT SUMMARY (M/P)

Compiled Mar. 1992  
Revised

ASE THA/S 108/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS	
<b>1.COUNTRY</b>	Thailand	<b>1.SITE OR AREA</b>	Pattaya Municipality (53.4 sq.km)	<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
<b>2.NAME OF STUDY</b>	Development of Pattaya Area	<b>2.PROJECT COST</b>	Total Cost    Local Cost    Foreign Cost (US\$1,000)      1)         140,520         69,680         71,840 2)	(Description) All projects recommended were approved by the Government of Thailand, and the budget was prepared in 1990. The Thai Government will implement the recommended projects with its own finance.	
<b>3.SECTOR</b>	Development Plan/Integrated Regional Development Plan	<b>3.CONTENTS OF MAJOR PROJECT(S)</b>	(1) South Pattaya land reclamation: Land reclamation plan of total area of 19ha. (2) Port facilities: Construction of berth for tourist boat, terminal buildings, berth for hydrofoil and boat yard. (3) Pattaya beach restoration: Beach expansion plan. (4) Ta-Van pier: Construction of pier in Ta-Van beach, Kolan island. (5) Sewerage project: Emergency improvement plan in Na Klua area and Jomtien area and expansion and improvement of existing facilities in Pattaya city area. (6) Rainwater drainage project: 4 plans for improvement or constructions projects. (7) Water supply project: 2 stages development plans based on the water demand. (8) Solid waste disposal project: Construction of final disposal field. (9) Road project: Expansion and improvement of Pattaya 3 roads.		
<b>4.REFERENCE NO.</b>		<b>4.CONDITIONS AND DEVELOPMENT IMPACTS</b>	1) Improvement of environmental conditions and addition of tourism facilities in South Pattaya 2) Improvement of Pattaya Beach 3) Improved access to Ko Lan 4) Improved water quality at sea and river 5) Reduction of flood damage 6) Stable water supply 7) Improved environmental condition around the existing waste disposal site and enhanced solid waste disposal capacity 8) Increased capacity of the roads to solve traffic congestion problem		
<b>5.TYPE OF STUDY</b>	M/P	<b>10.STUDY TEAM</b>	<b>2.MAJOR REASONS FOR PRESENT STATUS</b>  (FY 1991 Overseas Survey) The projects have been integrated into the Eastern Seaboard Development Program.		
<b>6.COUNTERPART AGENCY</b>	Office of Eastern Seaboard				
<b>7.OBJECTIVES OF STUDY</b>	Master plan preparation for urban and tourism development				
<b>8.DATE OF S/W</b>	Dec.1988				
<b>9 CONSULTANT(S)</b>	Nihon Koei Co., Ltd. Yachiyo Engineering Co., Ltd.				
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>	Tourism Market Survey, etc. 2856000 yen	<b>5.TECHNICAL TRANSFER</b>	Carried out for counterparts from the office of Eastern Seaboard and Pattaya Municipality		
<b>12.EXPENDITURE</b>	Total                    231,362 (¥'000) Contracted            214,024		<b>3.PRINCIPAL SOURCE OF INFORMATION</b> ①②		

和名 パタヤ地区総合開発計画

{M/P,M/P+(F/S),Basic Study,Other}



## PROJECT SUMMARY (M/P)

ASE THA/S 106/90

Compiled Mar. 1992  
Revised Mar. 1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS	
<b>1.COUNTRY</b>	Thailand	<b>1.SITE OR AREA</b>	All trunk roads managed by DOH	<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
<b>2.NAME OF STUDY</b>	Traffic Operation Plan for Roads	<b>2.PROJECT COST</b>	Total Cost    Local Cost    Foreign Cost (US\$1,000)      1)                 8,000                 8,000 2)	(Description)	
<b>3.SECTOR</b>	Transportation/Road	<b>3.CONTENTES OF MAJOR PROJECT(S)</b>	<p>a) Introduction of Traffic Census System            b) Introduction of Traffic Information System            c) Introduction of Road Inventory System            d) Traffic Operation System                -Improvement of selected 64 problem points on DOH roads</p> <p>1) Improvement of Highway                         5 points            2) Installation of Traffic Lights                   110 points            3) Installation of Guard Fence                    96 points            4) Construction of Bicycle Lanes                  1 point            5) Construction of Overpasses                    8 points            6) Pavement of Road Shoulders in                  1 set                the Urban Area</p> <p>The above project cost is 8,105.6 (local cost: 7,855.6 and foreign cost: 250.0) in million bahts.</p>		
<b>4.REFERENCE NO.</b>					
<b>5.TYPE OF STUDY</b>	M/P				
<b>6.COUNTERPART AGENCY</b>	Department of Highways Ministry of Transport and Communications				
<b>7.OBJECTIVES OF STUDY</b>	To establish effective traffic operation plan and to perform technology transfer	<p>(FY 1991 Overseas Survey) No additional information.</p> <p>(FY 1992 Overseas Survey) The 7th five year road improvement plan (Oct.1991-Sep.1996) was designed based on this study, and about 2,400 million bahts has been appropriated in the budget for traffic safety project.</p>			
<b>8.DATE OF S/W</b>	Sep.1988				
<b>9.CONULTANT(S)</b>	Central Consultant, Inc. Oriental Consultants Co., Ltd.	<b>4.CONDITIONS AND DEVELOPMENT IMPACTS</b>	Project life: 20 years B/C : 1.43		
<b>10.STUDY TEAM</b>	No.of Members    8 Period Feb.1989-Jun.1990(17 months)				
	Total M/M                      Japan                      Field 58.06                            21.51                      36.55				
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>	1. Traffic Survey 2. Topographic Survey				
<b>12.EXPENDITURE</b>	Total                      199,824 (¥'000) Contracted                176,982	<b>5.TECHNICAL TRANSFER</b>	Technical transfer has been performed on following items. - Basic conception and technical method for the introduction of each system - Technical guideline for improvement plan		
		<b>2.MAJOR REASONS FOR PRESENT STATUS</b>			
		<b>3.PRINCIPAL SOURCE OF INFORMATION</b>			
		①②③			

和名 道路交通運用計画

{M/P,M/P+(F/S),Basic Study,Other}

## PROJECT SUMMARY (M/P+F/S)

Compiled Mar. 1992  
Revised

ASE THA/S 211A/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS	
<b>1.COUNTRY</b>	Thailand	<b>1.SITE OR AREA</b>	Phuket Municipality, Thailand	<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
<b>2.NAME OF STUDY</b>	Sewage and Drainage Improvement Project for Phuket Municipality	<b>2.PROJECT COST</b>	Total Cost      Local Cost      Foreign Cost (US\$1,000)      1)            42,463          25,478          16,985 2)	(Description)	In the proposed projects, sewerage and flood control projects, PWD requested and prepared the application through the Thai Government to Japanese Government regarding especially sewerage project for Japanese Grant Aid Project.
<b>3.SECTOR</b>	Public Utilities/Sewerage	<b>3.CONTENT'S OF MAJOR PROJECT(S)</b>	<b>1.Sewerage:</b> 1)Designed Population: 78200 (Year 2006) 2)Desinged Sewage Flow: 34500 cub.m/D (Daily Average) 3)Treatment Method: Oxidation Ditch Method, Drying Bed 4)Outline of Facilities: Length of Sewer: 41.1km Pump Station : 10 Treatment Plant: 1  <b>2.Flood Control (Urgent Plan):</b> 1)East Flooding: Length - 4.3km, Width - 13km, Excavation - 1500 thousand cub.m 2)River Improvement in the Town: Excavation: 33800 cub.m/ 1.3 km Embankment: 74400 cub.m/1.7 km ; Revetment: 0.8 km Bridge Construction: 6 Others: Road-side U-shaped, Drain Improvement	(FY 1991 Overseas Survey) No additional information.	
<b>4.REFERENCE NO.</b>					
<b>5.TYPE OF STUDY</b>	M/P+ (F/S)				
<b>6.COUNTERPART AGENCY</b>	Public Works Department Ministry of Interior				
<b>7.OBJECTIVES OF STUDY</b>	Develop a comprehensive master plan for sewerage and flood control system for Phuket Minicipality				
<b>8.DATE OF S/W</b>	Feb.1989				
<b>9.CONULTANT(S)</b>	Nippon Jogesuido Sekkel Co., Ltd. Nihon Koei Co., Ltd.	<b>4.CONDITIONS AND DEVELOPMENT IMPACTS</b>	At present, there is no public sewerage system in Phuket City. Human excreta are disposed through cesspools or septic tanks installed at almost all houses and buildings in the town area, with the effluent allowed to leach into the ground or discharge into the watercourse through street gutters or the nearest drain. The implementation of this project has following impacts and benefits in this study area. 1) Health and welfare improvement 2) Environmental improvement 3) Decrease of flood damage 4) Development of hand use and increase of land value 5) Promotion of local industry		
<b>10.STUDY TEAM</b>	No.of Members 11 Period Jul.1989-Aug.1990(14 months)				
	Total M/M          Japan          Field 50.29                26.17          24.12				
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>	-Topograhpic Survey ; -Geological Survey -Water Quality Analysis				
<b>12.EXPENDITURE</b>	Total 180,370 (¥'000) Contracted 159,092	<b>5.TECHNICAL TRANSFER</b>	Conducted the training for three counterpart engineers in this project in Japan, and also held a seminar for project planning and design in Bangkok, Thailand.	<b>2.MAJOR REASONS FOR PRESENT STATUS</b>	Phuket Island is well known in the southern part of Asia not only in Thailand. The pollution caused by the underdevelopment of sewerage becomes an important problem. The urgent implementation of the project is expected.
				<b>3.PRINCIPAL SOURCE OF INFORMATION</b>	①②

和名 プーケット市下水排水改善計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

ASE THA/S 211B/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Thailand	1.SITE OR AREA	Phuket Municipality, Thailand																		
2.NAME OF STUDY	Sewerage and Drainage Improvement Project for Phuket Municipality	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>14,896</td> <td>6,703</td> <td>8,193</td> </tr> <tr> <td>2)</td> <td>7,799</td> <td>3,777</td> <td>4,022</td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	14,896	6,703	8,193	2)	7,799	3,777	4,022	3)			
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	14,896	6,703	8,193																		
2)	7,799	3,777	4,022																		
3)																					
3.SECTOR	Public Utilities/Sewerage	3.CONTENTES OF MAJOR PROJECT(S)	<p>1)Sewerage: -Target Year : 2001 -Designed Population : 29600 -Designed Sewage Flow: 18300 cub.m/D (Daily Average) -Outline of Facilities: Length of Sewer: 14.3km Pumping Station: 4 Planed Treatment: 4</p> <p>2)Flood Control: -East Flooding: Length = 3.4km, Width = 11m, Excavation = 442 thousand cub.m -River improvement in the Town: Excavation: 18400 cub.m Revetment : 10470 cub.m Bridge Reconstruction: 6</p> <p>The implementation period for flood control component is four years.</p>																		
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </tbody> </table>			Feasibility:	EIRR1)	FIRR1)	Yes/No	EIRR2)	FIRR2)		EIRR3)	FIRR3)							
Feasibility:	EIRR1)	FIRR1)																			
Yes/No	EIRR2)	FIRR2)																			
	EIRR3)	FIRR3)																			
5.TYPE OF STUDY	(M/P) + F/S	Conditions and Development Impacts:	<p>1.Sewerage System: -Reducing the content of water pollution for rivers and canals. -Improvement sea water pollution, where is the important place for the resort areas. -Increase the health benefit for island habitants.</p> <p>2.Flood Control System: -Reduce the flood damage -Improvement Economic Activity in Study Area -Increase the land value.</p>																		
6.COUNTERPART AGENCY	Public Works Department Ministry of Interior	5.technical transfer	<p>Conducted the training for three counterpart engineers in this project in Japan, and also held a seminar for the project planning and design in Bangkok, Thailand.</p>																		
7.OBJECTIVES OF STUDY	Provided a feasibility study for proposed master plan of sewerage and flood control system	3.PRINCIPAL SOURCE OF INFORMATION	①②																		
8.DATE OF S/W	Feb.1989	2.MAJOR REASONS FOR PRESENT STATUS	<p>Phuket Island is well known in the southern part of Asia not only in Thailand. The pollution caused by the underdevelopment of swereage becomes an important problem. The urgent implementation of the project is expected.</p>																		
9.CONSULTANT(S)	Nippon Jagesuido Sekkei Co., Ltd. Nihon Koei Co., Ltd.	3.PRINCIPAL SOURCE OF INFORMATION	①②																		
10.STUDY TEAM	<p>No.of Members 11</p> <p>Period Jul.1989-Aug.1990 (14 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>50.29</td> <td>26.17</td> <td>24.12</td> </tr> </tbody> </table>	Total M/M	Japan	Field	50.29	26.17	24.12	3.PRINCIPAL SOURCE OF INFORMATION	①②												
Total M/M	Japan	Field																			
50.29	26.17	24.12																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	-Topographical Survey ; -Geological Survey -Water Quality Analysis	3.PRINCIPAL SOURCE OF INFORMATION	①②																		
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>180,370 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>159,092</td> </tr> </tbody> </table>		180,370 (¥'000)	Total		Contracted	159,092	3.PRINCIPAL SOURCE OF INFORMATION	①②												
	180,370 (¥'000)																				
Total																					
Contracted	159,092																				

和名 プーケット市下水排水改善計画

(F/S,(M/P)+F/S,D/D)

# PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1992  
Revised

ASE THA/S 212A/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS												
1.COUNTRY	Thailand	1.SITE OR AREA	Bangkok Metropolitan Administration Area		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued											
2.NAME OF STUDY	Bangkok Solid Waste Management (II)	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>54,700</td> <td>43,300</td> <td>40,200</td> </tr> <tr> <td>2)</td> <td>74,000</td> <td>11,400</td> <td>33,800</td> </tr> </tbody> </table>			(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	54,700	43,300	40,200	2)	74,000	11,400
(US\$1,000)	Total Cost	Local Cost	Foreign Cost													
1)	54,700	43,300	40,200													
2)	74,000	11,400	33,800													
3.SECTOR	Public Utilities/Urban Sanitation	3.CONTENTES OF MAJOR PROJECT(S)	<p>(Description)</p> <p>The director general of the Department of Public Cleaning (DPC) submitted a letter to the Governor of the Bangkok Metropolitan Administration, in October 1990, requesting the construction of the sanitary landfill and the incineration plant. The request has been studied by the administrators of the BMA.</p> <p>As of October 1991, the situation is as follows:</p> <p>1.Construction of Sanitary Landfill at Ram Intra The Project is suspended due to increases in the land purchase cost.</p> <p>2.Construction of an Incineration Plant Whether or not to implement the project depends on the availability of subsidies of the Thai Government. The Bangkok Metropolitan Administration (BMA) has requested the subsidy from the Thai Government.</p> <p>3.Improvement of Waste Collection Systems No information available.</p> <p>(FY 1991 Overseas Survey) No additional information.</p>													
4.REFERENCE NO.		1.1 Construction of Sanitary Landfill at Ram Intra a)Place: A burrow pit at Ram Intra, b)Capacity: 1830000ton c)Area: 15 ha., d)Construction Cost: \$18 million 1.2 Construction of Sanitary Landfill in the East Part of Bangkok a)Place: East part of Bangkok (Not specified), b)Capacity: 3,650,000 ton c)Area: 123ha, d)Construction: \$36 million 2. Construction of an Incineration Plant a)Place: The existing On Nut dumping ground b)Capacity: 200t/d/unit * 3 units = 600t/d c)Gas cooling system: Water infection system d)Construction cost: \$74 million 3. Improvement on Waste Collection System														
5.TYPE OF STUDY	M/P+ (F/S)	4.CONDITIONS AND DEVELOPMENT IMPACTS	<p>1.Construction of Sanitary Landfill at Ram Intra With the introduction of sanitary landfill, sanitary and environmental conditions in and around a disposal site will remarkably improve. (The proposed sanitary landfill will be the first sanitary landfill of complete type in Thailand.)</p> <p>2.Construction of an Incineration Plant The proposed incinerator will be the first modern incinerator of this scale. It will contribute to the BMA in acquiring experiment and know-how that will be needed in operating future incinerators of larger scale. It will contribute to the volume reduction of waste.</p> <p>3.Improvement on Waste Collection Systems It will contribute to cost reduction and increase in collection efficiency.</p>													
6.COUNTERPART AGENCY	Bangkok Metropolitan Administration (BMA) Department of Public Cleaning (DPC)	10.STUDY TEAM														
7.OBJECTIVES OF STUDY	Preparation of a master plan and feasibility study on priority projects	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	2.MAJOR REASONS FOR PRESENT STATUS													
8.DATE OF S/W	Aug.1989	12.EXPENDITURE														
9.CONSULTANT(S)	EX Cor. Pacific Consultants International	12.EXPENDITURE	3.PRINCIPAL SOURCE OF INFORMATION													
10.STUDY TEAM	<p>No.of Members 11</p> <p>Period Dec.1989-Mar.1991(16 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>64.98</td> <td>25.74</td> <td>39.24</td> </tr> </tbody> </table>	Total M/M				Japan	Field	64.98	25.74	39.24						
Total M/M	Japan	Field														
64.98	25.74	39.24														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>1. Water quality analysis</p> <p>2. Chemical composition analysis of water</p> <p>3. Geological survey</p>	5. TECHNICAL TRANSFER	<p>①②</p>													
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td></td> <td>193,188 (¥'000)</td> <td>187,139</td> </tr> </tbody> </table>					Total	Contracted		193,188 (¥'000)	187,139	<p>The following technique has been transferred:</p> <p>1. Technique for preparing a master plan.</p> <p>2. Technique for daily maintenance of collection vehicles.</p>					
	Total	Contracted														
	193,188 (¥'000)	187,139														

和名 バンコク廃棄物処理計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1992  
Revised

ASE THA/S 212B/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Thailand	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled																
2.NAME OF STUDY		Bangkok Metropolitan Administration Area																					
Bangkok Solid Waste Management (II)																							
3.SECTOR		2.PROJECT COST				(Description)																	
Public Utilities/Urban Sanitation		<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>18,000</td> <td>14,800</td> <td>40,200</td> </tr> <tr> <td>2)</td> <td>74,000</td> <td>3,200</td> <td>33,800</td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	18,000	14,800	40,200	2)	74,000	3,200	33,800	3)			
	Total Cost	Local Cost	Foreign Cost																				
1) (US\$1,000)	18,000	14,800	40,200																				
2)	74,000	3,200	33,800																				
3)																							
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)																					
5.TYPE OF STUDY		1. Construction of Sanitary Landfill at Ram Intra a. Place: A burrow pit at Ram Intra b. Capacity: 1830000ton c. Area: 15 ha. d. Construction Cost: \$18 million 2. Construction of an Incineration Plant a. Place: The existing dumping ground at On Nut b. Capacity: 200t/d/unit * 3 units = 600t/d c. Gas cooling system: Water infection system d. Construction cost: \$74 million				The director general of the Department of Public Cleaning (DPC) submitted a letter to the Governor of the Bangkok Metropolitan Administration, in October 1990, requesting the construction of the sanitary landfill and the incineration plant. The request has been studied by the administrators of the BMA. As of October 1991, the situation is as follows: 1. Construction of Sanitary Landfill at Ram Intra The project is suspended due to increase in the land purchase cost. 2. Construction of an Incineration Plant Whether or not to implement the project depends on the availability of subsidies of the Thai Government. The Bangkok Metropolitan Administration (BMA) has requested the subsidy from the Thai Government. 3. Improvement of Waste Collection Systems: No information available. (FY 1991 Overseas Survey) 1. Sanitary Landfill It seems unlikely to acquire sufficient area of land inside the city. DPC/BMA is considering remote places for populated urban areas from the site. DPC/BMA got a conclusion that railway would be advantageous for long-distance haulage and has proposed JICA to conduct a study on "Solid Waste Railway Transfer Transport Project." 2. Budgeting was made in FY 1990 for Detail Design of the project.																	
6.COUNTERPART AGENCY		1. Construction of Sanitary Landfill on Ram Intra With the introduction of sanitary landfill, sanitary and environmental conditions in and around a disposal site will remarkably improve. (The proposed landfill will be the first sanitary landfill of complete kind.) 2. Construction of an Incineration Plant The proposed incinerator will be the first modern incinerator of this scale. It will contribute to the BMA in acquiring experiment and know-how that will be needed in operating future incinerators of large scale. It will contribute to the volume reductio of waste.				2.MAJOR REASONS FOR PRESENT STATUS 1. Construction of Sanitary Landfill Major reason is the increase in the land purchase cost. 2. Construction of Incineration Plant Major reason for delay is the shortage of fund. (FY 1991 Overseas Survey) The reasons are, in addition to hike in land price, dwindling land supply in the city area and the citizens' opposition against Solid Waste Management facilities in their urban living environment.																	
7.OBJECTIVES OF STUDY		To study feasibility of sanitary landfill and incineration plant.				3.PRINCIPAL SOURCE OF INFORMATION																	
8.DATE OF S/W		Imp. Period: .1992				①②																	
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS																					
EX Cor. Pacific Consultants International		<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </tbody> </table>				Feasibility:	EIRR1)	FIRR1)	Yes/No	EIRR2)	FIRR2)		EIRR3)	FIRR3)									
Feasibility:	EIRR1)	FIRR1)																					
Yes/No	EIRR2)	FIRR2)																					
	EIRR3)	FIRR3)																					
10.STUDY TEAM		5.technical transfer																					
No.of Members 11 Period Dec.1989-Mar.1991(16 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>64.98</td> <td>25.74</td> <td>39.24</td> </tr> </tbody> </table>		Total M/M	Japan	Field	64.98	25.74	39.24	The following technique has been transferred: 1. Technique for preparing a master plan. 2. Technique for daily maintenance of collection vehicles. 3. Technique for time and motion study.															
Total M/M	Japan	Field																					
64.98	25.74	39.24																					
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	Total	Contracted																					
	193,188 (¥000)	187,139																					

和名 バンコク廃棄物処理計画

{F/S,(M/P)+F/S,D/D}

# PROJECT SUMMARY (M/P+F/S)

ASE THA/A 204A/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS													
1.COUNTRY	Thailand	1.SITE OR AREA	Bang Pakong River Basin which encompasses four Provinces of Chonburi, Chachoengsao, Nakhon Nayok and Prachinburi														
2.NAME OF STUDY	Agricultural Water Resources Development Project of Bang Pakong River Basin	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>1,374,000</td> <td>719,000</td> <td>655,000</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	1,374,000	719,000	655,000	2)			
(US\$1,000)	Total Cost	Local Cost	Foreign Cost														
1)	1,374,000	719,000	655,000														
2)																	
3.SECTOR	Agriculture/General	3.CONTENT OF MAJOR PROJECT(S)	<p>The study proposed irrigation and water resource development projects for the purpose of rural living standard improvement, narrowing of regional disparities and environmental conservation. Major projects are as follows.</p> <p>1. 1st Stage: 3 sub-basins, 2 storage dams, 2 diversion weirs, agri.land dev.46,400ha (1) Klong S--- (1 dam, 21,200ha), (2) L---- (1 dam, 14,700ha), and (3) Tha Lat (2 diversion weirs, 10,500ha)</p> <p>2. 2nd Stage: 2 sub-basins, 2 storage dams, agri.land dev. 66,400ha (1) L----- (1 dam, 29,400ha), and (2) P----- S---- (1 dam, 37,000ha)</p> <p>3. 3rd Stage: 8 sub-basins, 9 storage dams, agri.land dev. 294,400ha (1) N--- K--- (1 dam, 138,200ha), (2) Pra P---- (2 dams, 51,600ha), (3) H--- S---- (1 dam, 14,300ha), (4) Laem Phraya (1 dam, 7,500ha), (5) S---Noi (1 dam, 4,200ha), (6) S---Yai (1dam, 3,100ha), (7) Tak (1 dam, 6,900ha), and (8) B----- (1 dam, 68,600ha)</p> <p>Total: 13 storage dams, 2 diversion weirs, agri.land development of 407,200ha</p>														
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	<p>Conditions:</p> <p>1. Objectives of irrigation development (target year 2000) (1) Introduction of double cropping to the existing paddy fields (2) Expansion of agricultural land (3) Shift from cassava to more profitable cash crops (4) Increase of the average yields</p> <p>2. Inclusion of other water requirements (households, industries, fisheries)</p> <p>3. Water resource development</p> <p>The water balance is calculated by taking into account 22 possible locations for storage dams and the cropping intensity of 150% over some 400,000 ha of agricultural land. 13 locations are selected.</p> <p>Development impacts: Irrigation development in parallel with water resource development will benefit agriculture, fisheries and industries as well as resident population. Estimated B/C ratios range from the highest in the Pra P----- upstream area at 1.83 to the lowest in the Nakhon Nayok area at 0.23. The ratio of the entire basin is 1.04.</p>														
5.TYPE OF STUDY	M/P+ (F/S)	5.technical transfer	Realized through the field survey, particularly on the planning and project formulation techniques.														
6.COUNTERPART AGENCY	Royal Irrigation Department Ministry of Agriculture and Cooperatives	6.PRINCIPAL SOURCE OF INFORMATION	①②														
7.OBJECTIVES OF STUDY	Feasibility Study for Water resources development	7.MAJOR REASONS FOR PRESENT STATUS	<p>Urgency has been confirmed by the Cabinet and a resolution has been made to position the subject project as one of the most important Government Project.</p>														
8.DATE OF S/W	Mar.1989	8.PRINCIPAL SOURCE OF INFORMATION	①②														
9.CONSULTANT(S)	Sanyu Consultants Inc.	9.MAJOR REASONS FOR PRESENT STATUS	<p>Urgency has been confirmed by the Cabinet and a resolution has been made to position the subject project as one of the most important Government Project.</p>														
10.STUDY TEAM	<p>No.of Members 13</p> <p>Period Sep.1989-Sep.1990(13 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>86.24</td> <td>32.11</td> <td>54.13</td> </tr> </tbody> </table>	Total M/M	Japan	Field	86.24	32.11	54.13	10.MAJOR REASONS FOR PRESENT STATUS	<p>Urgency has been confirmed by the Cabinet and a resolution has been made to position the subject project as one of the most important Government Project.</p>								
Total M/M	Japan	Field															
86.24	32.11	54.13															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		11.PRINCIPAL SOURCE OF INFORMATION	①②														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>214,029 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>181,557</td> </tr> </tbody> </table>		214,029 (¥'000)	Total		Contracted	181,557	12.PRINCIPAL SOURCE OF INFORMATION	①②								
	214,029 (¥'000)																
Total																	
Contracted	181,557																

和名 バンパコン川流域農業水利開発計画

(M/P,M/P+(F/S),Basic Study,Other)

# PROJECT SUMMARY (M/P+F/S)

ASE THA/A 204B/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT									
1.COUNTRY	Thailand	1.SITE OR AREA	Tha Lat River Basin, Chachoengsao Province										
2.NAME OF STUDY	Agricultural Water Resources Development Project of Bang Pakong River Basin	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>352,120</td> <td>184,320</td> <td>167,800</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	352,120	184,320	167,800
	Total Cost	Local Cost	Foreign Cost										
(US\$1,000)	352,120	184,320	167,800										
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	<p>The feasibility study was undertaken on the most downstream area (Tha Lat River Basin) next to the Bangkok Economic Sphere. Bang Pakong River is a tidal river, and it is impossible to utilize river water in the downstream areas during the dry season because of the rising sea water.</p> <p>1) Stage I : 14,300ha Bang Pakong River-mouth Diversion Weir: length 170m, 5 gates (span 30m x height 10.6m) Pumping Station: 17 cu.m/s, dia.1,500mm, 4 pumps Main irrigation canals: left bank main 12km, right bank main 24km, other 0.7km Drainage canals: 14km</p> <p>2) Stage II : 28,200ha Klong S----- Storage Dam: 396 million cu.m Tha Lat diversion weir: length 33.5m, rehab. of rubber-type gates Tha Lat irrigation dev.: rehabilitation of main (44km) and secondary canals S----- irrigation dev.: construction of main (45km) and secondary canals</p>										
4.REFERENCE NO.		<p>(Description)</p> <p>- Thai government is taking necessary actions to avail financial support to proceed with the detailed design as well as the implementation of the highest priority project, the First Stage of Tha Lat River development project among the studied projects in the overall basin.</p> <p>- It is urgently required to secure a water source for the industrial and domestic use especially in the Metropolitan Bangkok and neighboring areas, in addition to the planned stabilized irrigation water supply. With this concern, the government is conducting necessary procedures for land acquisition as well as environmental study on the construction of Diversion Dam Project.</p> <p>- Thai government requested technical cooperation to Japanese government on the implementation of detailed design for the above-mentioned project.</p> <p>(FY 1991 Overseas Survey) The detail design will be conducted from 1992 to 1993.</p>											
5.TYPE OF STUDY	(M/P)+F/S												
6.COUNTERPART AGENCY	Royal Irrigation Department, Ministry of Agriculture and Cooperatives	8.DATE OF S/W	Mar.1989	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>Urgency has been confirmed by the Cabinet and a resolution has been made to position the subject project as one of the most important Government Project.</p>									
7.OBJECTIVES OF STUDY	Feasibility Study for water resources development	9.CONULTANT(S)	Sanyu Consultants Inc.										
		4.FEASIBILITY AND ITS ASSUMPTIONS	<p>Feasibility: Yes</p> <p>EIRR1) 11.70 FIRR1)</p> <p>EIRR2) FIRR2)</p> <p>EIRR3) FIRR3)</p>										
		<p>Conditions and Development Impacts:</p> <p>Conditions: The project is formulated to stabilize and increase water supply for irrigation, and thereby to enable the improvement of cropping intensity and average crop yields. The Bang Pakong diversion weir will stop the sea water, and enable stable water supply to households, industries and inland water fisheries.</p> <p>Development impacts: The proposed project will directly increase agricultural and inland water fishery production and income thereof, and ensure the stable water supply for households and industries. Indirectly, the project will create employment, improve road transportation, and improve sanitary and environmental conditions in the project area. EIRR is 14.0% for the 1st Stage, 9.7% for the 2nd Stage, and 11.7% for the entire project.</p>											
10.STUDY TEAM	<p>No.of Members 13</p> <p>Period Sep.1989-Sep.1990(13 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>86.24</td> <td>32.11</td> <td>54.13</td> </tr> </tbody> </table>	Total M/M	Japan	Field	86.24	32.11	54.13	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION			
Total M/M	Japan	Field											
86.24	32.11	54.13											
12.EXPENDITURE		<p>Technical transfer was carried out through the field survey especially on the aspects of planning method and dam design technique</p>		①②									
<p>Total 214,029 (¥000)</p> <p>Contracted 181,557</p>													

和名 バンパコン川流域農業水利開発計画

{F/S,(M/P)+F/S,D/D}

# PROJECT SUMMARY (F/S)

ASE THA/A 314/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																						
1.COUNTRY	Thailand	1.SITE OR AREA	Thung Sai Yart (5,600ha) and Nong Khon Kaen (1,300ha) in Sukhothai Provic																							
2.NAME OF STUDY	Sukhothai Integrated Agricultural and Rural Infrastructure Development Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>17,597</td> <td>4,964</td> <td>12,633</td> </tr> <tr> <td>US\$1=25 Bahts</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	17,597	4,964	12,633	US\$1=25 Bahts												
	Total Cost	Local Cost	Foreign Cost																							
(US\$1,000)	17,597	4,964	12,633																							
US\$1=25 Bahts																										
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	<table border="1"> <thead> <tr> <th></th> <th>Thung Sai Yart</th> <th>Nong Khon Kaen</th> </tr> </thead> <tbody> <tr> <td>(1) Construction of Pond</td> <td>14 places (2.4 MCM)</td> <td>8 places (0.32 MCM)</td> </tr> <tr> <td>(2) Irr./Drai. Canal</td> <td>60.3 Km</td> <td>31.7 Km</td> </tr> <tr> <td>(3) Farm Road (New + Rehabil.)</td> <td>50.5 Km + 7.2 Km</td> <td>21.1 Km + 3.8 Km</td> </tr> <tr> <td>(4) Rehabil. of Ext. Pond</td> <td>2 places (1.4 MCM)</td> <td>2 places (0.38 MCM)</td> </tr> <tr> <td>(5) Village Water Supply</td> <td>10 villages (3,000 persons)</td> <td>5 villages (818 persons)</td> </tr> <tr> <td>(6) Rural Electrification</td> <td>399 households</td> <td>50 households</td> </tr> </tbody> </table>				Thung Sai Yart	Nong Khon Kaen	(1) Construction of Pond	14 places (2.4 MCM)	8 places (0.32 MCM)	(2) Irr./Drai. Canal	60.3 Km	31.7 Km	(3) Farm Road (New + Rehabil.)	50.5 Km + 7.2 Km	21.1 Km + 3.8 Km	(4) Rehabil. of Ext. Pond	2 places (1.4 MCM)	2 places (0.38 MCM)	(5) Village Water Supply	10 villages (3,000 persons)	5 villages (818 persons)	(6) Rural Electrification	399 households	50 households
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4.REFERENCE NO.		<p>(Description)</p> <p>Presently, ALRO, the implementing agency, is seeking an external financing for the project implementation. However, because of the competing projects for external financing, it is unlikely for the project to be included in the application list for OECF loans in the near future.</p> <p>(FY 1991 Overseas Survey)</p> <p>At present, priority or urgency of the project is not ranked high.</p>																								
5.TYPE OF STUDY	F/S																									
6.COUNTERPART AGENCY	Agricultural Land Reform Office (ALRO), Ministry of Agriculture and Agricultural Cooperatives																									
7.OBJECTIVES OF STUDY	To make F/S on Integrated Agricultural Development in Thung Sai Yat and Nong Khon Kaen in Sukhothai																									
8.DATE OF S/W	Dec.1988	Imp. Period:	.1991-.1996																							
9.CONSULTANT(S)	Sanyu Consultants Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>7.90</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2</td> <td></td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </tbody> </table>			Feasibility:	EIRR1	7.90	FIRR1	Yes/No	EIRR2		FIRR2		EIRR3		FIRR3									
Feasibility:	EIRR1	7.90	FIRR1																							
Yes/No	EIRR2		FIRR2																							
	EIRR3		FIRR3																							
10.STUDY TEAM	<p>No.of Members 10</p> <p>Period Jul.1989-Jul.1990(13 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>47.70</td> <td>19.04</td> <td>28.66</td> </tr> </tbody> </table>	Total M/M	Japan	Field	47.70	19.04	28.66	<p>Conditions and Development Impacts:</p> <p>1) The basic concept of the project follows the policy of the 6th 5-year plan.</p> <p>2) The development concept based on diversified agriculture under rained condition could be applicable to other similar areas with demonstration effect.</p> <p>3) ALRO could upgrade their engineering and managerial capabilities through project implementation.</p> <p>4) The project would contribute to eradicating poverty and to solving regional income differential in backward villages through increasing income and upgrading living standard.</p>																		
Total M/M	Japan	Field																								
47.70	19.04	28.66																								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>- Test Well Drilling &amp; Geological Survey: ¥6,471,000.-</p> <p>- Water Quality Test: ¥279,000.-</p>	5.technical transfer	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>1) The change in Japanese policy for her economic cooperation to Thailand.</p> <p>2) Thai economic coordination agency is not willing to use an external loan for agricultural projects which do not have high economic feasibility.</p>																							
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>158,547 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>153,066</td> </tr> </tbody> </table>	Total	158,547 (¥'000)	Contracted	153,066	<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>																				
Total	158,547 (¥'000)																									
Contracted	153,066																									

和名 スコタイ農村総合整備計画

(F/S,(M/P)+F/S,D/D)



# PROJECT SUMMARY (D/D)

ASE THA/S 405/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																					
1.COUNTRY	Thailand	1.SITE OR AREA	Area 31 sq.km in Central Bangkok																						
2.NAME OF STUDY	Area Traffic Control Project in Bangkok	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>20,000</td> <td>20,000</td> <td></td> </tr> <tr> <td>1)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	20,000	20,000		1)				2)				3)			
	Total Cost	Local Cost	Foreign Cost																						
(US\$1,000)	20,000	20,000																							
1)																									
2)																									
3)																									
3.SECTOR	Transportation/Urban Transportation	3.CONTENT OF MAJOR PROJECT(S)	<p>1) ATC signalized intersections....143</p> <p>2) Control center....The control center will be located on the 1st floor of the existing BMA, central computer and peripheral devices etc. will be provided.</p> <p>3) Transmission system and communication lines will be installed.</p> <p>4) 143 local controllers and 460 vehicle detectors will be equipped.</p> <p>5) 5 CCTV cameras will be provided at intersection.</p> <p>6) 67 intersections will be improved.</p>																						
4.REFERENCE NO.		<p>(Description)</p> <p>Following the budgeting schedule allotted to BMA, this project is scheduled for the tender contract. The evaluation for the pre-qualification of tender was carried out after P/Q invitation in May 1990.</p> <p>In order to spend the BMA's ATC project budget in 1991, BMA must conclude the contract with a pre-qualified tender before the end of September 1991.</p> <p>However, this project schedule is expected to be delayed because of the BMA's slow procedure.</p> <p>(FY 1992 Overseas Survey)</p>																							
5.TYPE OF STUDY	D/D																								
6.COUNTERPART AGENCY	Bangkok Metropolitan Administration (BMA)																								
7.OBJECTIVES OF STUDY	Detailed design study & Prepare the necessary documents for ATC system																								
8.DATE OF S/W	Dec.1989	Imp. Period:	May.1990-Dec.1991																						
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd. Fukuyama Consultants International, Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	<table border="1"> <thead> <tr> <th></th> <th>EIRR1</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td></td> <td>74.00</td> <td></td> </tr> <tr> <td></td> <td>EIRR2</td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td>FIRR3</td> </tr> </tbody> </table>			EIRR1	FIRR1		74.00			EIRR2	FIRR2		EIRR3	FIRR3								
	EIRR1	FIRR1																							
	74.00																								
	EIRR2	FIRR2																							
	EIRR3	FIRR3																							
10.STUDY TEAM	<p>No. of Members 13</p> <p>Period .1990-Nov.1991(8 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>52.36</td> <td>25.66</td> <td>26.70</td> </tr> </tbody> </table>	Total M/M	Japan	Field	52.36	25.66	26.70	<p>Conditions and Development Impacts:</p> <p>IRR of this project (stage 1) is as extremely high as 74 % and all the initial investment will be covered within 12.1 months after commencement under 12 % of discount rate. B/C ratio is as high as 7.5.</p> <p>Although nobody would deny that time has economic value, there are many arguments on how to measure it. In this study, time value is quantified based on the productivity of economically active population in the study area. Even in cases where this unit time value is admitted, there may be objections to apply this value to a small fraction of a few minutes at saved travel time.</p> <p>Therefore, taking only the VOC saving benefit which is tangible, IRR is re-calculated at 17.2 which shows the ATC project is still economically tangible.</p>																	
Total M/M	Japan	Field																							
52.36	25.66	26.70																							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>- Intersection Configuration Survey</p> <p>- Underground Utility Lines and Materials</p>	5.technical transfer	Counterpart training : 1 person ( 28 Sept., 1990 - 5 Oct., 1990)																						
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td></td> <td>164,060 (¥'000)</td> <td>157,107</td> </tr> </tbody> </table>		Total	Contracted		164,060 (¥'000)	157,107	3.PRINCIPAL SOURCE OF INFORMATION																	
	Total	Contracted																							
	164,060 (¥'000)	157,107																							
		①②																							

和名 バンコク市交通制御システム整備計画

{ F/S,(M/P)+F/S,D/D }

# PROJECT SUMMARY (M/P)

Compiled Mar.1993  
Revised

ASE THA/S 109/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS													
1.COUNTRY	Thailand	1.SITE OR AREA	Whole of Thailand (Area:513,000 sq.km. Population: 55 million)		1.PRESENT STATUS												
2.NAME OF STUDY	Toll Highway Development	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>4,000,000</td> <td>2,400,000</td> <td>1,600,000</td> </tr> <tr> <td>2)</td> <td>6,000,000</td> <td>3,600,000</td> <td>2,400,000</td> </tr> </tbody> </table>		(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	4,000,000	2,400,000	1,600,000	2)	6,000,000	3,600,000	2,400,000	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
(US\$1,000)	Total Cost	Local Cost	Foreign Cost														
1)	4,000,000	2,400,000	1,600,000														
2)	6,000,000	3,600,000	2,400,000														
3.SECTOR	Transportation/Road	3.CONTENTS OF MAJOR PROJECT(S)	(Description) DOH has submitted TOR for F/S on the inter-city toll motorway projects (644km of 4,300km) to the Government of Japan in Dec. 1990. In November 1992, S/W was signed and P/S on two routs (the total length: 260km) will be carried out.														
4.REFERENCE NO.																	
5.TYPE OF STUDY	M/P																
6.COUNTERPART AGENCY	Department of Highways, Ministry of Transport and Communications																
7.OBJECTIVES OF STUDY	Study on the inter-city toll motorway network development																
8.DATE OF S/W	Oct.1989	4.CONDITIONS AND DEVELOPMENT IMPACTS															
9.CONSULTANT(S)	Katahira & Engineers International Nihon Koei Co., Ltd.	1)Condition The trip number in 2010 will be 3.4 times as much as that in 1990. 2)Development Impacts Direct Benefit: - Savings in vehicle operation cost - Savings in time cost Indirect Effects: - Betterment of national development - Promotion of manufacturing, tourism, agriculture, fisheries and commercial activities. - Improvement in living conditions.															
10.STUDY TEAM	No.of Members 12 Period Feb.1990-Jun.1991(17 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>79.57</td> <td>18.83</td> <td>60.74</td> </tr> </tbody> </table>	Total M/M	Japan	Field	79.57	18.83	60.74		2.MAJOR REASONS FOR PRESENT STATUS								
Total M/M	Japan	Field															
79.57	18.83	60.74															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Traffic Surveys		About 600km inter-city toll motorways construction plan has been made in the 7th 5-year National Economic and Social Development Plan (1992-1996).														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>333,451 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>322,047</td> </tr> </tbody> </table>		333,451 (¥'000)	Total		Contracted	322,047	5.technical transfer	3.PRINCIPAL SOURCE OF INFORMATION								
	333,451 (¥'000)																
Total																	
Contracted	322,047																
		Opening of Seminar at BKK (Dec.1990) / Participation of the counterparts in the JICA training program / Collaboration with the counterparts / Employment of local consultant	①														

和名 有料高速道路計画

{M/P,M/P+(F/S),Basic Study,Other}

## PROJECT SUMMARY (M/P+F/S)

Compiled Mar. 1993  
Revised

ASE THA/S 213A/91

I. OUTLINE OF STUDY			II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS		
<b>1.COUNTRY</b>	Thailand		<b>1.SITE OR AREA</b>	Southern Region in Thailand		<b>1.PRESENT STATUS</b>	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued	
<b>2.NAME OF STUDY</b>	Road Development in the Southern Region		<b>2.PROJECT COST</b>	Total Cost    Local Cost    Foreign Cost (US\$1,000)                  1) 2)		<b>(Description)</b> Followed by F/S.  This study is an input to the Seventh Five Year Plan (1992-1996).		
<b>3.SECTOR</b>	Transportation/Road		<b>3.CONTENTS OF MAJOR PROJECT(S)</b>	The road improvement master plan with a target completion year 2001 is as follows: 1. Widening to six lanes : 150km 2. Widening to four lanes : 1,210km 3. Widening to seven-meter lanes: 970km (in total: 2,330km) 4. Solid crossing of multi-lane roads 5. Pavement completion of provincial roads 6. Upgrading of substandard roads to six-meter pavement 7. Bypass construction in the urban areas and major towns  The master plan projects with a target completion year 1996 is as follows: 1. Construction of new roads : 120km 2. Construction of additional lanes: 780km 3. Widening to seven-meter oanes : 1,460km 4. Widening to six-meter lanes : 130km 5. Reconstruction and upgrading : 132km (in total: 2,622km)				
<b>4.REFERENCE NO.</b>								
<b>5.TYPE OF STUDY</b>	M/P+ (F/S)							
<b>6.COUNTERPART AGENCY</b>	Department of Highways Ministry of Transport and Communications							
<b>7.OBJECTIVES OF STUDY</b>	1) To establish a master plan for road networks in the Southern Region with a target completion year 2001; 2) To select priority projects by the year 1996; and 3) To perform technology transfer to Thai counterpart personnel in the course of							
<b>8.DATE OF S/W</b>	Oct.1989		<b>4.CONDITIONS AND DEVELOPMENT IMPACTS</b>	Development Impact: 1. Capacity increase of national roads linking major urban centers. 2. Capacity increase of roads near urban districts including bypass construction 3. Road construction linking provincial capitals especially those in the west coast and southern areas near national boarder. 4. Upgrading of substandard roads to six-meter pavements. 5. Attaching importance to disaster prevention and traffic safety. 6. Environment preservation in road construction especially in the mountainous districts.		<b>2.MAJOR REASONS FOR PRESENT STATUS</b>		
<b>9CONSULTANT(S)</b>	Pacific Consultants International Oriental Consultants Co., Ltd.							
<b>10.STUDY TEAM</b>	No.of Members      8 Period Feb.1990-Sep.1991(20 months)							
	Total M/M	Japan	Field					
	67.98	5.73	62.25					
<b>11.ASSOCIATED AND/OR SUBCONTRACTED STUDY</b>	Social and Economic Survey Soil Survey Traffic Survey							
<b>12.EXPENDITURE</b>	Total                      277,624 (¥'000) Contracted              273,090		<b>5.TECHNICAL TRANSFER</b>	OJT (meetings once a month) Seminar on traffic demand forecast and CAD in Japan (May-June 1991)		<b>3.PRINCIPAL SOURCE OF INFORMATION</b> ①		

和名 南部道路網整備計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1993  
Revised

ASE THA/S 213B/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																																			
1.COUNTRY	Thailand	1.SITE OR AREA	Southern region in Thailand		1.PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Promoting <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled																																		
2.NAME OF STUDY	Road Development in the Southern Region	2.PROJECT COST (US\$1,000)	Total Cost 598,099 Local Cost Foreign Cost																																				
3.SECTOR	Transportation/Road	3.CONTENTS OF MAJOR PROJECT(S)	(Description) Nineteen projects out of the F/S and Pre-F/S studies of this Road Development Study in the Southern Region are included in the road development plan by DOH in the Seventh Five Year Plan (1992-1996). The importance of the Phuket and Surat Thani roads are particular recognized by the DOH.																																				
4.REFERENCE NO.																																							
5.TYPE OF STUDY	(M/P)+F/S																																						
6.COUNTERPART AGENCY	Department of Highways Ministry of Transport and Communications																																						
7.OBJECTIVES OF STUDY	1)To carry out feasibility study on the selected projects in the master plan; 2)To carry out feasibility study on the Krabi-Khanom link as a part of the Southern Seashore Development Plan(SSDP); and 3)To perform technology transfer	The priority projects with the target year 1996 are as follows: <table border="1"> <thead> <tr> <th>No.</th> <th>Project</th> <th>Length(km)</th> <th>Cost(in mil.bath)</th> </tr> </thead> <tbody> <tr> <td>NC-1</td> <td>Chumphone Road</td> <td>9.1</td> <td>110.2</td> </tr> <tr> <td>AD-2-1</td> <td>Phuket Road</td> <td>38.4</td> <td>612.6</td> </tr> <tr> <td>AD-1-2</td> <td>Surat Thani Road</td> <td>40.1</td> <td>468.6</td> </tr> <tr> <td>NC-5</td> <td>Connection 4/406</td> <td>24.1</td> <td>285.3</td> </tr> <tr> <td>WD7-4-1</td> <td>Hua Sai Road</td> <td>96.3</td> <td>215.6</td> </tr> </tbody> </table> To carry out a study on required transport capacity of the Krabi-Khanom link which consists of the Seashore Development Plan (SSDP: the isthmus transformation to new international economic zone through the construction of "Trans Thai Land Bridge"). The project and construction costs of three route alternatives are as follows: <table border="1"> <thead> <tr> <th>Plan</th> <th>Project Cost (in mil.bath)</th> <th>Construction Cost (in mil.bath)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>8,442.2</td> <td>6,365.5</td> </tr> <tr> <td>B</td> <td>9,419.6</td> <td>7,264.4</td> </tr> <tr> <td>C</td> <td>8,438.8</td> <td>5,634.9</td> </tr> </tbody> </table>		No.	Project	Length(km)	Cost(in mil.bath)	NC-1	Chumphone Road	9.1	110.2	AD-2-1	Phuket Road	38.4	612.6	AD-1-2	Surat Thani Road	40.1	468.6	NC-5	Connection 4/406	24.1	285.3	WD7-4-1	Hua Sai Road	96.3	215.6	Plan	Project Cost (in mil.bath)	Construction Cost (in mil.bath)	A	8,442.2	6,365.5	B	9,419.6	7,264.4	C	8,438.8	5,634.9
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9.CONSULTANT(S)	Pacific Consultants International Oriental Consultants Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>14.80</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td>13.70</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>14.80</td> <td>FIRR3)</td> </tr> </tbody> </table>		Feasibility:	EIRR1)	14.80	FIRR1)	Yes/No	EIRR2)	13.70	FIRR2)		EIRR3)	14.80	FIRR3)																							
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Yes/No	EIRR2)	13.70	FIRR2)																																				
	EIRR3)	14.80	FIRR3)																																				
10.STUDY TEAM	No.of Members 8 Period Feb.1990-Sep.1991 (20 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>67.98</td> <td>5.73</td> <td>62.25</td> </tr> </tbody> </table>	Total M/M	Japan	Field	67.98	5.73	62.25	Conditions and Development Impacts: The EIRRs of priority projects with the target year 1996 are as follows. <table border="1"> <thead> <tr> <th>No.</th> <th>Project</th> <th>EIRR(%)</th> </tr> </thead> <tbody> <tr> <td>NC-1</td> <td>Chumphone Road</td> <td>69.9</td> </tr> <tr> <td>AD-2-1</td> <td>Phuket Road</td> <td>69.2</td> </tr> <tr> <td>AD-1-2</td> <td>Surat Thani Road</td> <td>52.3</td> </tr> <tr> <td>NC-5</td> <td>Connection 4/406</td> <td>52.3</td> </tr> <tr> <td>WD7-4-1</td> <td>Hua Sai Road</td> <td>34.3</td> </tr> </tbody> </table> The project economic costs and EIRRs of three alternatives of the Krabi-Khanom link are as follows: <table border="1"> <thead> <tr> <th>Plan</th> <th>Project Economic Cost(in mil.bath)</th> <th>EIRR(%)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>8,442.2</td> <td>14.8</td> </tr> <tr> <td>B</td> <td>9,419.6</td> <td>13.7</td> </tr> <tr> <td>C</td> <td>8,438.8</td> <td>14.8</td> </tr> </tbody> </table>		No.	Project	EIRR(%)	NC-1	Chumphone Road	69.9	AD-2-1	Phuket Road	69.2	AD-1-2	Surat Thani Road	52.3	NC-5	Connection 4/406	52.3	WD7-4-1	Hua Sai Road	34.3	Plan	Project Economic Cost(in mil.bath)	EIRR(%)	A	8,442.2	14.8	B	9,419.6	13.7	C	8,438.8	14.8
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11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Social and Economic Survey Soil Survey Traffic Survey	5.technical transfer	2.MAJOR REASONS FOR PRESENT STATUS																																				
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>277,624 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>273,090</td> </tr> </tbody> </table>	Total	277,624 (¥'000)	Contracted	273,090	Methods of Traffic Demand Forecast and Computer Utilization		3.PRINCIPAL SOURCE OF INFORMATION ①																															
Total	277,624 (¥'000)																																						
Contracted	273,090																																						

和名 南部道路網整備計画

{F/S,(M/P)+F/S,D/D}

# PROJECT SUMMARY (M/P+F/S)

Compiled Mar.1993  
Revised

ASE THA/A 205A/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Thailand	1.SITE OR AREA	Amphoe Phra Yun, Changwat Khon Kaen, Norht-east Thailand		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued					
2.NAME OF STUDY	Integrated Rural Development of Salt-affected Land in Notheast Thailand	2.PROJECT COST	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 50,000 23,000 27,000 2) US\$1=25.0Bahts		(Description)  Followed by the feasibility study of the pilot project area.						
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)									
4.REFERENCE NO.		The Study formulated an integrated rural development project in the salt-affected area, aiming to improve rural standards of living, to alleviate rural income disparities, to effectively utilize water and land resources and to conserve and improve rural environment.									
5.TYPE OF STUDY	M/P+ (F/S)	Major project components 1) Irrigation Facilities: Total gross area 3,715ha; 6 new weirs & rehab. of 11 existing weirs; 27 new ponds & rehab. of 3 existing pond; 50 pumps 2) Drainage Facilities: Drainage improvement (5,000ha) 3) Rural Road: 31km improvement & rehab. of 3 bridges 4) Rural Water Supply: 4 Villages (3,800 persons) 5) Forestry: Afforestation 583ha Agro-forestry 15,830ha 6. Social Services: Training and recreation, Market facilities									
6.COUNTERPART AGENCY	Department of Land Development, Ministry of Agriculture and Cooperatives										
7.OBJECTIVES OF STUDY	Formulation of a Master Plan and economic evaluation of the pilot project										
8.DATE OF S/W	Nov.1989	4.CONDITIONS AND DEVELOPMENT IMPACTS		2.MAJOR REASONS FOR PRESENT STATUS							
9.CONSULTANT(S)	Sanyu Consultants Inc.	Assumptions: 1) Irrigation development and salination control to improve and stabilize paddy yields 2) Introduction of a agroforestry system to develop sustainable upland agriculture 3) Agricultural diversification (irrigation, horticulture, sericulture, fish culture, animal husbandry, fodder production, etc.) 4) Project life of 50 years Quantifiable benefits from the project are estimated to be 87.3 million Bahts (agriculture 78.1 million, inland fisheries 4.7 million, village water supply 0.8 million, and rural road 3.7 million), with an EIRR of 8.1%. Development impacts: 1) Regeneration of vegetative cover in the basin area, agricultural diversification and improvement of rural living conditions 2) Increased income distribution and reduced regional disparities 3) Increased communal undertakings and solidarity 4) Reduction of water drawing labor among women and children and improved public sanitation									
10.STUDY TEAM	No.of Members 12 Period Mar.1990-Oct.1991(7 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>65.00</td> <td>27.30</td> <td>37.70</td> </tr> </tbody> </table>	Total M/M	Japan	Field	65.00	27.30	37.70				
Total M/M	Japan	Field									
65.00	27.30	37.70									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Survey of river profile and section Topographic Survey (4,500ha) Shallow well drilling	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION							
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>253,905 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>237,071</td> </tr> </tbody> </table>	Total	253,905 (¥'000)	Contracted	237,071	OJT and Seminar		①			
Total	253,905 (¥'000)										
Contracted	237,071										

和名 東北タイ塩害地域農村総合開発計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (M/P+F/S)

ASE THA/A 205B/91

Compiled Mar.1993  
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Thailand	1.SITE OR AREA	Amphoe Phra Yun, Changwat Khon Kaen, Norht-east Thailand														
2.NAME OF STUDY	Integrated Rural Development of Salt-affected Land in Notheast Thailand	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>12,600</td> <td>4,800</td> <td>7,800</td> </tr> <tr> <td>US\$1=25.0Bahts</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	12,600	4,800	7,800	US\$1=25.0Bahts			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	12,600	4,800	7,800														
US\$1=25.0Bahts																	
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	<p>The pilot area is selected to represent major development components which characterize the entire study area.</p> <p>1) Irrigation facilities: Two sites along Huai Yang (158ha and 166ha) and one site along the canal to Nong Khu Weir (57ha)</p> <p>2) Drainage improvement: 820ha (salt-affected land 300ha, slightly salt-affected land 520ha)</p> <p>3) Rural Road: Surface raising at 10 flooded places (total 1km); concrete drainage pipes (10 places); simple asphalt paving within 15 villages (total 7.5km)</p> <p>4) Rural Water Supply: 4 Villages (3,800 persons)</p> <p>5) Forestry &amp; Social Services: Training and recreation, Market facilities</p>														
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>9.50</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </tbody> </table> <p>Conditions and Development Impacts: Assumptions: 1) Grassland improvement in severely salt-affected land for animal grazing (210ha); 2) Paddy cultivation in most of the lowland (2,150ha); 3) Agroforestry in upland areas (1,840ha); 4) Project life of 50 years</p> <p>Expected Development: 1) 2.2-time increase of rice production to 3,000 tons (30% from irrigated land); 2) intensive horticulture (tomato &amp; watermelon) in irrigated lowland after the rainy season; 3) 1.7-time increase in number of cattle/water buffaloes; 4) 4.3-time increase of the area planted to mulberry</p> <p>Quantifiable benefits from the pilot project are estimated to be 17.4 million bahts (agriculture 15.6 million, inland fisheries 0.5 million, village water supply 0.8 million, and rural road 0.5 million). Annual gross farming income for average land-owning farmers (3ha) is estimated to be 7,272 bahts without project, but 11,820 bahts (rain-fed paddy farmers) and 26,990 bahts (irrigated paddy farmers) with project.</p>			Feasibility:	EIRR1)	9.50	FIRR1)	Yes/No	EIRR2)		FIRR2)		EIRR3)		FIRR3)
Feasibility:	EIRR1)	9.50	FIRR1)														
Yes/No	EIRR2)		FIRR2)														
	EIRR3)		FIRR3)														
5.TYPE OF STUDY	(M/P)+F/S	5.technical transfer	On-the job training through field survey and seminar in Khon Kaen.														
6.COUNTERPART AGENCY	Department of Land Development, Ministry of Agriculture and Cooperatives	10.STUDY TEAM	<p>No.of Members 12</p> <p>Period Mar.1990-Oct.1991(7 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>65.00</td> <td>27.30</td> <td>37.70</td> </tr> </tbody> </table>			Total M/M	Japan	Field	65.00	27.30	37.70						
Total M/M	Japan	Field															
65.00	27.30	37.70															
7.OBJECTIVES OF STUDY	Formulation of a Master Plan and economic evaluation of the pilot project	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Survey of river profile and section Topographic Survey (4,500ha) Shallow well drilling														
8.DATE OF S/W	Nov.1989	12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>253,905 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>237,071</td> </tr> </tbody> </table>			Total	253,905 (¥'000)	Contracted	237,071								
Total	253,905 (¥'000)																
Contracted	237,071																
9.CONSULTANT(S)	Sanyu Consultants Inc.	2.MAJOR REASONS FOR PRESENT STATUS	Since grant aid by Japanese Gornernment is difficult, this project will be financed by Thai government. However, project-type technical assistance can be sought.														
		3.PRINCIPAL SOURCE OF INFORMATION	①														

和名 東北タイ塩害地域農村総合開発計画

(F/S,(M/P)+F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar.1993  
Revised

ASE THA/A 315/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Thailand	1.SITE OR AREA	4 Provinces (Phitsanulote, Sukhothai, Kamphaeng phet and Tak)														
2.NAME OF STUDY	Integrated Rural Development Project at Lower North Thailand	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>115,300</td> <td>57,900</td> <td>57,400</td> </tr> <tr> <td>US\$1=25bahts</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	115,300	57,900	57,400	US\$1=25bahts			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	115,300	57,900	57,400														
US\$1=25bahts																	
3.SECTOR	Agriculture/General	3.CONTENT(S) OF MAJOR PROJECT(S)	1. Irrigated agriculture development - Irrigation of 9,300ha - Improvement of rainfed agriculture - Development of sericulture, cattle raising and inland fisheries (108projects) 2. Rural road development - Construction of rural roads (1,070km) - Pavement of existing roads (60km) 3. Rural water supply (574 deep wells) 4. Rural infrastructure development - Rural youth and agriculture technology training - Cottage industry groups working facilities (36)														
4.REFERENCE NO.		(Description)  A Project-type Technical Cooperation is under consideration. There is no possibility of OECF loan.  (FY1992 Overseas Survey) Waiting for the answer.															
5.TYPE OF STUDY	F/S																
6.COUNTERPART AGENCY	Office of Accelerated Rural Development, Ministry of Interior.																
7.OBJECTIVES OF STUDY	- Master plan on integrated rural development project of 4 provinces - Feasibility study of 4 model projects																
8.DATE OF S/W	Feb.1990	Imp. Period:	.1992-.1997														
9.CONSULTANT(S)	Sanyu Consultants Inc. Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 7.80 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)												
10.STUDY TEAM	No.of Members 10 Period Jun.1990-Aug.1991 (14 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>66.90</td> <td>26.70</td> <td>40.20</td> </tr> </tbody> </table>	Total M/M	Japan	Field	66.90	26.70	40.20	Conditions and Development Impacts: 1. Associated projects (education, public health, agro-industry) shall be implemented under the coordination by National Rural Development Coordinating Center. 2. For effective implementation of the project, the proposed 4 model projects shall be implemented in advance. 3. Increase in income through improvement of agricultural productivity and creation of job opportunity. 4. Improvement of quality of life.									
Total M/M	Japan	Field															
66.90	26.70	40.20															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic mapping Analysis of soil and water samples	5. TECHNICAL TRANSFER															
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>222,913 (Y'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>218,890</td> <td></td> </tr> </tbody> </table>		Total	222,913 (Y'000)	Contracted	218,890		Seminar in integrated rural development at Lower North Thailand in August, 1992 in Bangkok.			3.PRINCIPAL SOURCE OF INFORMATION						
	Total	222,913 (Y'000)															
Contracted	218,890																
					①												

和名 北タイ南部農村総合開発計画

{F/S,(M/P)+F/S,D/D}

# PROJECT SUMMARY (Other)

ASE THA/S 605/91

Compiled Mar.1993  
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS													
1.COUNTRY	Thailand	1.SITE OR AREA	DOH roads within the area of the Outer Ring Road of Bangkok														
2.NAME OF STUDY	Traffic Operation Plan for Roads (follow-up)	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>8,000</td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	8,000			2)			
(US\$1,000)	Total Cost	Local Cost	Foreign Cost														
1)	8,000																
2)																	
3.SECTOR	Transportation/Road	3.CONTENTES OF MAJOR PROJECT(S)	<p>(Description)</p> <p>In the Seventh Highway Development Plan (Oct.1991-Sept.1996), the budget of 10 billion baht is appropriated for traffic safety projects. These projects will be implemented together with projects proposed in the former TOPR Study.</p> <p>Projects for grade separations and the motorcycle lane program will be implemented under the construction project and the road maintenance project.</p>														
4.REFERENCE NO.																	
5.TYPE OF STUDY	Other																
6.COUNTERPART AGENCY	Department of Highways, Ministry of Transport and Communications																
7.OBJECTIVES OF STUDY	1. To formulate the traffic operation plan. 2. To recommend a suitable road improvement plan. 3. To transfer technology																
8.DATE OF S/W	Sep.1990	4.CONDITIONS AND DEVELOPMENT IMPACTS															
9.CONSULTANT(S)	Central Consultant, Inc. Oriental Consultants Co., Ltd.	<p>Criteria for Selection:</p> <p>Sections for the follow-up study were selected according to the following criteria.</p> <p>1) Sections for which traffic controllers, road users and local residents strongly request earliest improvement.</p> <p>2) Sections which are considered most dangerous on the basis of the analysis of accidents and other traffic-related data.</p> <p>3) Sections which are judged as requiring urgent improvement at the time of field observations.</p> <p>In consultation with the DOH, 59 sections were selected for the follow-up study. 24 sections were found to require improvements of intersections, 6 sections to require regular road improvement, and 29 sections to require measures for pedestrian safety.</p> <p>Ten sites for preliminary designing were selected according to the following criteria.</p> <p>1) Sections with obvious traffic congestions and risks where improvements will immediately realize desirable effects.</p> <p>2) Sections requiring the types of improvements which are applicable to other sections.</p> <p>3) Sections for which it is judged necessary to draw preliminary designs of the proposed specific improvements.</p> <p>Expected Impacts:</p> <p>Implementation of proposal improvement plans will substantially contribute to the improvement of the very serious road traffic problems on road under jurisdiction of DOH, in particular the heavy traffic condition and frequent occurrence of traffic accidents.</p>															
10.STUDY TEAM	No.of Members 6 Period Apr.1991-Nov.1991 (7 months)		2.MAJOR REASONS FOR PRESENT STATUS														
	<table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>21.96</td> <td>1.96</td> <td>20.00</td> </tr> </tbody> </table>	Total M/M	Japan	Field	21.96	1.96	20.00										
Total M/M	Japan	Field															
21.96	1.96	20.00															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey Traffic Survey	5.technical transfer	3.PRINCIPAL SOURCE OF INFORMATION														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>77,234 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>76,828</td> </tr> </tbody> </table>		77,234 (¥'000)	Total		Contracted	76,828	By applying the results of the former TDRR Study concretely, much more technology was transferred to the Thai counterparts.	①								
	77,234 (¥'000)																
Total																	
Contracted	76,828																

和名 道路交通運用計画 (アフターケア)

{M/P,M/P+(F/S),Basic Study,Other}



# PROJECT SUMMARY (F/S)

MEA DZA/A 301/85

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																					
1.COUNTRY	Algeria	1.SITE OR AREA	Southwest 20km from Annaba City, Annaba Province																						
2.NAME OF STUDY	Projet d'aménagement agricole de la région périphérique du Lac Fetzara	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>350,000</td> <td>220,000</td> <td>130,000</td> </tr> <tr> <td>1)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	350,000	220,000	130,000	1)				2)				3)			
	Total Cost	Local Cost	Foreign Cost																						
(US\$1,000)	350,000	220,000	130,000																						
1)																									
2)																									
3)																									
3.SECTOR	Agriculture/General	3.CONTENT(S) OF MAJOR PROJECT(S)	Agricultural infrastructure improvement plans: Irrigation, drainage, terminal field improvement, agricultural facilities. Agriculture development plan: farm land of 10,570ha Agriculture improvement plans: housing, water supply, sewerage, transmission of electricity, school, post office.																						
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes/No EIRR1 7.30 FIRR1 EIRR2 FIRR2 EIRR3 FIRR3	1.PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input checked="" type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled																						
5.TYPE OF STUDY	F/S																								
6.COUNTERPART AGENCY	Ministry of Agriculture																								
7.OBJECTIVES OF STUDY																									
8.DATE OF S/W	Mar.1983	Imp. Period:	.1985-.1992																						
9.CONSULTANT(S)	Sanyu Consultants Inc.  kyowa Engineering Consultants Co., Ltd.	(Description) There is no hope of funding the proposed project because of the deterioration of the Algerian economy.																							
10.STUDY TEAM	No.of Members 13 Period Dec.1983-Mar.1985(17 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>71.58</td> <td>29.15</td> <td>41.83</td> </tr> </tbody> </table>	Total M/M	Japan	Field	71.58	29.15	41.83	2.MAJOR REASONS FOR PRESENT STATUS At some point, the possibility of applying to the Yen Credit Program was discussed, but Algeria is not eligible for the Program.																	
Total M/M	Japan	Field																							
71.58	29.15	41.83																							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		3.PRINCIPAL SOURCE OF INFORMATION ①																							
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>315,059 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>280,430</td> </tr> </tbody> </table>			Total	315,059 (¥'000)	Contracted	280,430	5.technical transfer To counterparts assigned during the period of the survey																	
Total	315,059 (¥'000)																								
Contracted	280,430																								

和名 フェツアラ湖周辺地域農業開発計画

(F/S,(M/P)+F/S,D/D)

# PROJECT SUMMARY (F/S)

MEA EGY/S 301/75

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Egypt	1.SITE OR AREA	Suez Canal														
2.NAME OF STUDY	Suez Canal Extension Project	2.PROJECT COST	<table border="1"> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> <tr> <td>(US\$1,000)</td> <td>820,512</td> <td>307,179</td> <td>513,333</td> </tr> <tr> <td>US\$1=LE0.39</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	820,512	307,179	513,333	US\$1=LE0.39			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	820,512	307,179	513,333														
US\$1=LE0.39																	
3.SECTOR	Transportation/Port	3.CONTENT(S) OF MAJOR PROJECT(S)	<p>The 1st phase project shown below will take 3.5 years to complete, and it is imperative to proceed to the 2nd phase immediately, because the route going around Cape Town will cost less for supertankers than the Canal transit.</p> <p>1st Phase Canal Extension:</p> <ol style="list-style-type: none"> <li>Dredging: the entire canal length to four times the wet sectional area of the largest vessel transiting the Canal</li> <li>Dredging 470 million cu.m, Excavation ashore 67 million cu.m</li> <li>Revetment: Relocation to the east side</li> <li>West Breakwater: submerged mound structure, length 7,354m</li> <li>Breakwater from the light house to 4,500m, submerged from 4,500m to 7,354m</li> <li>Earthworks: Removal of concrete military structures and the banking from the east side</li> <li>Others: dredging of anchorage at Port Said and elsewhere, navigation aids, oil pollution control devices, etc.</li> </ol>														
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <tr> <td>Feasibility:</td> <td>EIRR1)</td> <td>11.50</td> <td>FIRR1)</td> </tr> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </table>			Feasibility:	EIRR1)	11.50	FIRR1)	Yes	EIRR2)		FIRR2)		EIRR3)		FIRR3)
Feasibility:	EIRR1)	11.50	FIRR1)														
Yes	EIRR2)		FIRR2)														
	EIRR3)		FIRR3)														
5.TYPE OF STUDY	F/S	5. TECHNICAL TRANSFER															
6.COUNTERPART AGENCY	Suez Canal Authority	7.OBJECTIVES OF STUDY	<p>Promotion of Japanese cooperation to the 1st stage development of the Suez Canal</p>														
8.DATE OF S/W	.0	8.IMP. PERIOD	.1975-.1978														
9.CONULTANT(S)		10.STUDY TEAM	<p>No.of Members 10</p> <p>Period Nov.1974-Jul.1975(8 months)</p> <p>Total M/M Japan Field</p>														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		12.EXPENDITURE	<p>Total 16,526 (Y'000)</p> <p>Contracted</p>														
		2.MAJOR REASONS FOR PRESENT STATUS	<p>Development of Suez Canal was the top priority of the Egyptian Government.</p>														
		3.PRINCIPAL SOURCE OF INFORMATION	①②④														

和名 スエズ運河拡張計画

{F/S,(M/P)+F/S,D/D}

## PROJECT SUMMARY (F/S)

MEA EGY/S 302/76

Compiled Mar.1986  
Revised Dec.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Egypt	1.SITE OR AREA	The City of Cairo														
2.NAME OF STUDY	Urban Water Supply Project in the Great Cairo	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>33,250</td> <td>7,518</td> <td>25,732</td> </tr> <tr> <td>US\$1=300yen</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	33,250	7,518	25,732	US\$1=300yen			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	33,250	7,518	25,732														
US\$1=300yen																	
3.SECTOR	Public Utilities/Water Supply	3.CONTENTS OF MAJOR PROJECT(S)	<p>1) Pumping facilities for raw water supply Nasr City: 4 pumps (d.500mm) Heliopolis: 4 booster pumps (d.500mm)</p> <p>2) Heliopolis water conveyance facilities Raw water pipeline: d.1,350mm, 9,800m Drinking water pipeline: d.1,200mm, 9,800m One regulation tank: 15,000 cu.m</p> <p>3) Nasr City water conveyance facilities Raw water pipeline: d.1,200mm, 5,100m One regulation tank: 22,000 cu.m</p> <p>4) Helwan water conveyance facilities Raw water pipeline: d.500mm, 4,800m One regulation tank: 4,000 cu.m</p>														
4.REFERENCE NO.		7.OBJECTIVES OF STUDY	To alleviate the increasing shortage of water in Cairo														
5.TYPE OF STUDY	F/S	8.DATE OF S/W	Dec.1974														
6.COUNTERPART AGENCY	The General Organization for the Greater Cairo Water Supply	9.CONCONSULTANT(S)	Sanyu Consultants Inc. Nihon Suido Consultants Co., Ltd.														
		10.STUDY TEAM	<p>No.of Members 12</p> <p>Period Sep.1975-Mar.1976(5 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>39.50</td> <td>20.50</td> <td>19.00</td> </tr> </tbody> </table>			Total M/M	Japan	Field	39.50	20.50	19.00						
Total M/M	Japan	Field															
39.50	20.50	19.00															
		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Analysis of water in the Nile River														
		12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>93,212 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>72,670</td> </tr> </tbody> </table>				93,212 (¥'000)	Total		Contracted	72,670						
	93,212 (¥'000)																
Total																	
Contracted	72,670																
		5.technical transfer	<p>1) OJT: Inspection of water work facilities and factories in Japan was held for 11 engineers.</p> <p>2) Instruction to a local consultant of research and investigation method was executed.</p>														
		1.PRESENT STATUS	<p>Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="checkbox"/></p> <p>Completed <input checked="" type="radio"/> Delayed or Suspended <input type="radio"/></p> <p>Implementing <input type="radio"/> Discontinued or Cancelled <input type="radio"/></p> <p>Processing <input type="radio"/></p>														
		(Description)	<p>OECE Loan Agreement: Jun. 1976(5,820 million yen) Dec. 1978(3,375 million yen)</p> <p>Detailed design: Completed in Dec. 1979</p> <p>Completion of Project: Aug. 1984</p> <p>The implemented project was modified as follows:</p> <p>d1400 - 1200mm: 9.4km d1200 - 1000mm: 6.1km d1200mm: 9.6km d1000mm: 21.8km d800 - 75mm: 43.0km d500 - 75mm: 53.0km d500mm: 7.3km Cost:US\$36,780,000 (US\$1=250yen)</p>														
		(FY1991 Overseas Survey)	No additional information														
		2.MAJOR REASONS FOR PRESENT STATUS	<p>1) Contribution to the alleviation of water shortage caused by population increase and urbanization</p> <p>2) High Priority</p> <p>3) The General Organization is the most powerful and active governmental agency in Cairo City.</p>														
		3.PRINCIPAL SOURCE OF INFORMATION	024														

和名 カイロ大都市圏都市用水開発計画

$$\{F/S, (M/P) + F/S, D/D\}$$

# PROJECT SUMMARY (M/P)

MEA EGY/S 101/79

Compiled Mar.1985  
Revised Dec.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS													
1.COUNTRY	Egypt	1.SITE OR AREA	Aswan City (pop. 0.2 million) and the High Dam Lake Area														
2.NAME OF STUDY	High Dam Lake Area Integrated Region Development Plan	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)				2)			
(US\$1,000)	Total Cost	Local Cost	Foreign Cost														
1)																	
2)																	
3.SECTOR	Development Plan/Integrated Regional Development Plan	3.CONTENTES OF MAJOR PROJECT(S)	<p>The study covers the area consisting of Aswan City and the High Dam Lake area extending 120 km from east to west and 300 km from south to north. Major projects are as follows:</p> <p>1) Establishment of an agricultural experiment station (selection of suitable crops, development of appropriate farming systems, improvement of irrigation management and disease and pest control)</p> <p>2) Establishment of a Fishery Management Center (Resource surveys, experimental aquaculture, resource management).</p>														
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	<p>Conditions: It is necessary to ascertain the constraints of development such as availability of water and soil conditions in order to utilize the development potentials.</p> <p>Development impacts: The development of the High Dam Lake area will contribute to the balanced regional growth and the alleviation of the population pressures in the Nile delta area.</p>														
5.TYPE OF STUDY	M/P	5.technical transfer	<p>- OJT on regional development planning</p> <p>- Acceptance of trainees (JICA counterpart training program)</p>														
6.COUNTERPART AGENCY	Ministry of Development and New Cities High Dam Lake Development Authority	6.PRINCIPAL SOURCE OF INFORMATION	①②														
7.OBJECTIVES OF STUDY	Formulation of a regional development plan and selection of priority projects	7.PRINCIPAL SOURCE OF INFORMATION	①②														
8.DATE OF S/W	Jun.1978	8.PRINCIPAL SOURCE OF INFORMATION	①②														
9.CONSULTANT(S)	International Development Center of Japan Nihon Koel Co., Ltd. Nomura Research Institute	9.PRINCIPAL SOURCE OF INFORMATION	①②														
10.STUDY TEAM	<p>No.of Members 14</p> <p>Period Jan.1979-Feb.1980(14 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>61.00</td> <td>27.30</td> <td>33.70</td> </tr> </tbody> </table>	Total M/M	Japan	Field	61.00	27.30	33.70	10.PRINCIPAL SOURCE OF INFORMATION	①②								
Total M/M	Japan	Field															
61.00	27.30	33.70															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		11.PRINCIPAL SOURCE OF INFORMATION	①②														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>183,572 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>158,365</td> </tr> </tbody> </table>		183,572 (¥'000)	Total		Contracted	158,365	12.PRINCIPAL SOURCE OF INFORMATION	①②								
	183,572 (¥'000)																
Total																	
Contracted	158,365																

和名 南部地域総合開発計画

{M/P,M/P+(F/S),Basic Study,Other}

# PROJECT SUMMARY (F/S)

MEA EGY/S 303/79

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																																																							
1.COUNTRY	Egypt	1.SITE OR AREA	Line between Cairo and Alexandria and regions along the route																																																								
2.NAME OF STUDY	Cairo - Alexandria Line Electrification for Egyptian Railways	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>457,000</td> <td>98,200</td> <td>358,800</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	457,000	98,200	358,800																																														
	Total Cost	Local Cost	Foreign Cost																																																								
(US\$1,000)	457,000	98,200	358,800																																																								
3.SECTOR	Transportation/Railway	3.CONTENT OF MAJOR PROJECT(S)	<table border="1"> <thead> <tr> <th></th> <th>138.51E</th> <th>78.81E</th> <th>33.31E</th> <th>18.21E</th> <th>16.01E</th> </tr> </thead> <tbody> <tr> <td>Rolling stock(48 Els, etc.)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Electric wires(208km)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Power transformer facilities (3 substations, etc.)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>repair at rolling stock bases)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Civil facilities(rolling stock bases, etc)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Signal and telecommunications facilities (improvement, etc.)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Land (for rolling stock bases and substations)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Design and administration</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				138.51E	78.81E	33.31E	18.21E	16.01E	Rolling stock(48 Els, etc.)						Electric wires(208km)						Power transformer facilities (3 substations, etc.)						repair at rolling stock bases)						Civil facilities(rolling stock bases, etc)						Signal and telecommunications facilities (improvement, etc.)						Land (for rolling stock bases and substations)						Design and administration					
	138.51E	78.81E	33.31E	18.21E	16.01E																																																						
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Land (for rolling stock bases and substations)																																																											
Design and administration																																																											
4.REFERENCE NO.		<p>(Description)</p> <p>After completion of the F/S, the project was suspended owing to the lack of funds. However, some improvement works on signals, tracks, etc., based on this project were implemented with the financial cooperation of both France and West Germany.</p> <p>(FY1991 Overseas Survey)</p> <p>The Egyptian Railways is convinced that electrification should be implemented. However, the project is suspended owing to the reasons mentioned below. An alternative project of introducing turbo train units between Cairo and Alexandria has been implemented since 1983 by French finance.</p>																																																									
5.TYPE OF STUDY	F/S																																																										
6.COUNTERPART AGENCY	Egyptian National Railways																																																										
7.OBJECTIVES OF STUDY	F/S for electrification of the line between Cairo and Alexandria and a review of rolling stock specifications																																																										
8.DATE OF S/W	Jul.1978	Imp. Period:	Jun.1979-Dec.1983																																																								
9.CONSULTANT(S)	Japan Railway Technical Service	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	<table border="1"> <thead> <tr> <th>EIRR1)</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </tbody> </table>		EIRR1)	FIRR1)	EIRR2)	FIRR2)	EIRR3)	FIRR3)																																																
EIRR1)	FIRR1)																																																										
EIRR2)	FIRR2)																																																										
EIRR3)	FIRR3)																																																										
10.STUDY TEAM	<p>No.of Members 31</p> <p>Period Sep.1978-Dec.1979(15 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>61.63</td> <td>49.43</td> <td>12.20</td> </tr> </tbody> </table>	Total M/M	Japan	Field	61.63	49.43	12.20	<p>Conditions and Development Impacts:</p> <p>1.Preconditions</p> <p>Increase in fare and efficient fund procurement</p> <p>2.Expected development impacts</p> <p>1) Effective utilization of resources(use of power from Aswan High Dam, economization of oil)</p> <p>2) Balanced development of local cities and alleviation of population concentration in and around Cairo by reducing time-distance.</p>																																																			
Total M/M	Japan	Field																																																									
61.63	49.43	12.20																																																									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	Preparation of the report with the cooperation of Egyptian National Railways																																																								
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>79,528 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>69,133</td> </tr> </tbody> </table>	Total	79,528 (¥'000)	Contracted	69,133	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>-An arrangement of the large initial cost is the main obstacle.</p> <p>-Lack of surplus electric power.</p>																																																					
Total	79,528 (¥'000)																																																										
Contracted	69,133																																																										
		<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>																																																									

和名 エジプト国鉄カイロ～アレキサンドリア線電化

{F/S,(M/P)+F/S,D/D}