

# PROJECT SUMMARY (Basic Study)

ASE THA/S 502/88

Compiled Mar.1990  
Revised Mar.1995

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)			(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. These are the organizations which 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  (FY1994 Domestic Survey) No additional information.							
3.SECTOR Social Infrastructures/Survey & Mapping		3.CONTENTES OF MAJOR PROJECT(S)										
4.REFERENCE NO.		Aerial photography	Bangkok Metropolitan Region	4,000 sq.km								
5.TYPE OF STUDY Basic Study		Topographic mapping (Scale:1/10,000)	Bangkok Metropolitan Area	2,000 sq.km								
6.COUNTERPART AGENCY Bangkok Metropolitan Administration (BMA)		Topographic mapping (Scale:1/4,000)	Builtup Area of Bangkok	300 sq.km								
7.OBJECTIVES OF STUDY		4.CONDITIONS AND DEVELOPMENT IMPACTS										
8.DATE OF S/W Mar.1986		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.										
9.CONSULTANT(S) International Engineering Consultants Association Kokusai Kougyo Co., Ltd.		10.STUDY TEAM No.of Members 65 Period Sep.1986-Mar.1989(28 months)  <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Total M/M</td> <td style="width: 30%;">Japan</td> <td style="width: 30%;">Field</td> </tr> <tr> <td style="text-align: center;">213.30</td> <td style="text-align: center;">52.20</td> <td style="text-align: center;">161.10</td> </tr> </table>					Total M/M	Japan	Field	213.30	52.20	161.10
Total M/M	Japan	Field										
213.30	52.20	161.10										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS							
12.EXPENDITURE		1)OJT on aerial triangulation, drafting, editing and other mapping processes. 2)OJT on new technologies of digital mapping and computer-aided mapping.			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.							
<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">1,002,033 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>983,807</td> </tr> </table>		Total	1,002,033 (¥'000)	Contracted	983,807	3.PRINCIPAL SOURCE OF INFORMATION			①			
Total	1,002,033 (¥'000)											
Contracted	983,807											

和名 バンコク首都圏地形図作成事業

[M/P,Basic Study,Other]

## PROJECT SUMMARY (Other)

ASE THA/S 604/88

Compiled Mar.1990  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Thailand	1.SITE OR AREA	Major cities			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	(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.  (FY1993 Overseas Survey) Training Center, 115-storey building, is under construction by RTG budget. It costed 80 million baht. Besides the Center above, following two projects are formulated. - Land Re-adjustment Project - Land and Building Use Control Additionally, JICA dispatched an expert to DTCP for the project relating to the M/P.  (FY1994 Domestic Survey) No additional information.					
		(US\$1,000)		1) 8,550		8,550						
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.												
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												
8.DATE OF S/W		Aug.1987										
9.CONSULTANT(S) Yachiyo Engineering Co., Ltd.		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.										
10.STUDY TEAM No.of Members 11 Period Nov.1987-Feb.1989 (13 months)  <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">63.37</td> <td style="text-align: center;">4.33</td> <td style="text-align: center;">59.04</td> </tr> </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												
12.EXPENDITURE Total 229,891 (¥'000) Contracted 210,450		5.TECHNICAL TRANSFER OJT and a seminar			3.PRINCIPAL SOURCE OF INFORMATION ①, ②							
2.MAJOR REASONS FOR PRESENT STATUS												

和名 都市計画策定指針作成

(M/P, Basic Study, Other)

# PROJECT SUMMARY (M/P)

Compiled Mar.1991  
Revised Mar.1995

ASE THA/S 105/89

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		I.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 style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> <td style="width: 15%;"></td> </tr> <tr> <td style="text-align: center;">(US\$1,000)</td> <td style="text-align: center;">1) 6,406,759</td> <td style="text-align: center;">3,525,379</td> <td style="text-align: center;">2,881,379</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost		(US\$1,000)	1) 6,406,759	3,525,379	2,881,379			2)				(Description) 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. 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.  (FY1991 Overseas Survey) No additional information.  (FY1994 Domestic Survey) No additional information.						
	Total Cost	Local Cost	Foreign Cost																							
(US\$1,000)	1) 6,406,759	3,525,379	2,881,379																							
	2)																									
3.SECTOR	Communications & Broadcasting/Telecommunication	3.CONTENTES OF MAJOR PROJECT(S)	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. 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. 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 rout 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.																							
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS			Conditions: 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.  Development Impacts: 1.Fulfillment of national telephone demand and provision of versatile services. 2.Realization of an informatized society and more dynamic and innovative business operation.																					
5.TYPE OF STUDY	M/P	5. TECHNICAL TRANSFER					1)C/P training for 2 sponsored by JICA and 4 by TOT about the process of formulation of M/P in Japan. 2)Field survey of NTT facilities.																			
6.COUNTERPART AGENCY	Telephone Organization of Thailand (Corporate Planning Office)	6. EXPENDITURE							3.PRINCIPAL SOURCE OF INFORMATION ①, ②																	
7.OBJECTIVES OF STUDY	To formulate a long term development plan for the period from FY 1993 to FY 2007 in Thailand	7. ASSOCIATED AND/OR SUBCONTRACTED STUDY									2.MAJOR REASONS FOR PRESENT STATUS Recent rapid economic growth has accelerated the shortage of infrastructures. Especially in the telecom sector, there exists waiting applicants for telephone who have to 5 or 6 years. Thai Government has set the policy guideline in the 5th and 6th Development Plan for improving efficiency of state enterprises. As for the domestic telephone service, which is now provided dominantly by TOT, the Government has decided to promote the private sector.															
8.DATE OF S/W	Jun.1988	8. EXPENDITURE											<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total</td> <td style="width: 15%; text-align: center;">220,718 (¥'000)</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td></td> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">212,870</td> <td></td> <td></td> </tr> </table>			Total	220,718 (¥'000)						Contracted	212,870		
	Total	220,718 (¥'000)																								
	Contracted	212,870																								
9.CONSULTANT(S)	NTT International Corporation	9. ASSOCIATED AND/OR SUBCONTRACTED STUDY													<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total M/M</td> <td style="width: 15%; text-align: center;">Japan</td> <td style="width: 15%; text-align: center;">Field</td> <td style="width: 15%;"></td> </tr> <tr> <td></td> <td style="text-align: center;">75.61</td> <td style="text-align: center;">34.72</td> <td style="text-align: center;">40.89</td> <td></td> </tr> </table>			Total M/M	Japan	Field			75.61	34.72	40.89	
	Total M/M	Japan															Field									
	75.61	34.72	40.89																							
10.STUDY TEAM	No.of Members 11 Period Sep.1988-Dec.1989(15 months)	10. ASSOCIATED AND/OR SUBCONTRACTED STUDY																								
		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY																								
		12. EXPENDITURE																								
		13. ASSOCIATED AND/OR SUBCONTRACTED STUDY																								
		14. ASSOCIATED AND/OR SUBCONTRACTED STUDY																								
		15. ASSOCIATED AND/OR SUBCONTRACTED STUDY																								
		16. ASSOCIATED AND/OR SUBCONTRACTED STUDY																								
		17. ASSOCIATED AND/OR SUBCONTRACTED STUDY																								
		18. ASSOCIATED AND/OR SUBCONTRACTED STUDY																								
		19. ASSOCIATED AND/OR SUBCONTRACTED STUDY																								

和名 国内電話網拡充長期計画

(M/P,Basic Study,Other)

## PROJECT SUMMARY (M/P)

Compiled Mar.1991

Revised Mar.1995

ASE THA/A 103/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS								
1.COUNTRY	Thailand	1.SITE OR AREA	Whole Chao Phraya Basin		1.PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Discontinued							
2.NAME OF STUDY	Water Management System and Monitoring Program in Chao Phraya River Basin	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) 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.  (FY1993 Overseas Survey) Due to a huge budget, the project has not been implemented. RID has been implementing water management system and monitoring program in Chao Phraya Basin by RID own plan.  (FY1994 Domestic Survey) Out of seven major projects proposed by the study, monitoring system improvement is being undertaken by the Project Type Cooperation by Irrigation Engineering Center (IEC).							
3.SECTOR	Agriculture/General	(US\$1,000)	1) 26,554		26,554								
4.REFERENCE NO.		US\$1=148Yen	2)										
5.TYPE OF STUDY	M/P	3.CONTENTS OF MAJOR PROJECT(S)											
6.COUNTERPART AGENCY	Royal Irrigation Department	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) Groudwater Development Plan (Phichit and Sukhothai), (4) Kwai 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), (12) other related development plans 7. Study on a Crop Diversification Promotion Center (not costed) Crop-Water relations and marketing & price 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	4.CONDITIONS AND DEVELOPMENT IMPACTS											
8.DATE OF S/W	May.1986	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.											
9.CONSULTANT(S)	Sanyu Consultants Inc. Taiyo Consultants Co., Ltd.	10.STUDY TEAM											
		No.of Members 14 Period Jan.1987-Mar.1989(27 months)											
		<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">157.82</td> <td style="text-align: center;">49.59</td> <td style="text-align: center;">108.23</td> </tr> </table>			Total M/M	Japan	Field	157.82	49.59	108.23			
Total M/M	Japan	Field											
157.82	49.59	108.23											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS								
		Examination of technical criteria and staff training			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.								
12.EXPENDITURE					3.PRINCIPAL SOURCE OF INFORMATION								
Total	570,471 (¥'000)				①, ②								
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, Basic Study, Other}

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

Compiled Mar.1991  
Revised Mar.1994

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				1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled									
2. NAME OF STUDY	Provincial Water Supply Projects	Patum Thani & Prachatipat, Phuket, Su Ngai Golok													
3. SECTOR	Public Utilities/Water Supply	2. PROJECT COST (US\$1,000)		M/P 1) 2) FS 1) 2) 3)	Local Cost 233,228	Foreign Cost 117,079	116,149								
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)				(Description) Patum Thani & Prachatipat, Phuket PWA intends to propose these package projects to Japanese government for OECF yen credit.  Su Nagi Golok This project will be carried out by PWA's own equity.  (FY 1991 Overseas Survey) Promoting by a private company in the form of privatization. Detail Design: From year 1992 to year 1993 Construction : From year 1994 to year 1995  (FY1993 Overseas Survey) Using ADB grant, PWA revised F/S of Pathum Thani, Prachatipat and Phuket from Dec. 1993 to May 1994. This F/S focused on privatization of the Project. PWA will conduct the D/D and the construction of Pathum & Prachatipat by its own budget. PWA completed the D/D of Su Ngai Golok & Thung Song and will implement if in FY 1995.									
5. TYPE OF STUDY	M/P+F/S	<M/P> (1) Patum Thani & Prachatipat: Raw Water Intake, Water Treatment Plant, Distribution Reservoirs, Distribution and Transmission Pipeline (283,000 m <sup>3</sup> /day) (2) Phuket: New Water Treatment Plant, Dam, Distribution Reservoirs, Transmission Pipeline (3) Su Ngai Golok: Raw Water Intake, Water Treatment Plant, (9,400m <sup>3</sup> /day) Transmission Pipeline (13,000m) (4) Phang Nga: Raw Water Intake, Transmission Pipeline (21,300m) (5) Takua Pa: Raw Water Intake, Water Treatment Plant (4,300m <sup>3</sup> /day), Transmission Pipeline (6) Thung Song: Water Treatment Plant, Raw Water Intake, Transmission Pipeline <F/S>(1) Patum water & Prachatipat: Phase I: Raw water intake, water treatment plant(141,500cu.m/day), 8 distribution reservoirs(47,250cu.m), distribution and transmission pipelines Phase II: Raw water intake, water treatment plant, distribution reservoir and pipeline (2) Phuket; Phase I: Khlong Bang Yai area, coastal resort area Phase II: 3 other systems (3) Su Ngai Golok; Raw water intake, treatment plant(9,400 cu.m/day), distribution reservoirs and transmission pipeline  Imp. Period: 1990-1996													
6. COUNTERPART AGENCY	Provincial Waterworks Authority	4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 9.50 EIRR2) 7.44 EIRR3) 11.63			FIRR1) 17.00 FIRR2) 12.67 FIRR3) 0.31							
7. OBJECTIVES OF STUDY	-Preparation of development plans for 7 Provincial Cities Water Supply Projects in Thailand -To conduct F/S in Phuket, Prachatipat, Patum Thani and Su Ngai Golok	Conditions and Development Impacts: Major urbanization is observed in Patum Thani & Prachatipat, and Phuket Island is the most famous resort in Thailand. Su Ngai Golok is a trading area along boundary. So, investment of this project brings many social and economic benefits, such as, increase in served population, land value increase, health benefit and tourism income increase.													
8. DATE OF S/W	Mar. 1988							2. MAJOR REASONS FOR PRESENT STATUS There are very higher economic and social efficiency in investment of these projects. As compared to financing capability of government of Thailand, these projects need more capital costs.							
9. CONSULTANT(S)	Nippon Jogesuido Sekkei Co., Ltd.														
10. STUDY TEAM	No. of Members 9 Period Jul. 1988-Mar. 1990 (21 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">58.23</td> <td style="text-align: center;">26.04</td> <td style="text-align: center;">32.19</td> </tr> </table>	Total M/M	Japan	Field	58.23			26.04	32.19					3. PRINCIPAL SOURCE OF INFORMATION ①②	
Total M/M	Japan	Field													
58.23	26.04	32.19													
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey Soil Investigation	5. TECHNICAL TRANSFER													
12. EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">355,723 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">164,359</td> </tr> </table>	Total	355,723 (¥'000)	Contracted	164,359	Through the study, planning, demand forecasting, design of each facilities and O & M management method has been transferred to counterpart.									
Total	355,723 (¥'000)														
Contracted	164,359														

和名 地方都市水道整備計画

[M/P+F/S]

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

ASE THA/S 209B/89

Compiled Mar.1991  
Revised Mar.1995

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 checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled																																			
2.NAME OF STUDY		Medium and long - term road plan Area within the Outer Ring Road<M/P> ATC Project: Area within the Middle Ring Road and adjacent areas(235 intersections) CUD Project: Area within the Middle Ring Road.<F/S>																																								
3.SECTOR		2.PROJECT COST				(Description) <M/P> 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.  <F/S> 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.  (FY1993 Overseas Survey) June 1991-March 1994    Dispatch of JICA Expert to BMA  BMA used the M/P to formulate the BMA 4th Development Plan. Many projects in the M/P are being implemented.  (FY1994 Domestic Survey) The study results about CUD are widely used by the Government.																																				
4.REFERENCE NO.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">M/P 1)</td> <td style="width: 15%;">5,007,320</td> <td style="width: 15%;">Local Cost</td> <td style="width: 15%;">2,164,880</td> <td style="width: 15%;">Foreign Cost</td> <td style="width: 10%;">2,842,440</td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>F/S 1)</td> <td>43,840</td> <td></td> <td>15,767</td> <td></td> <td>28,073</td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							M/P 1)	5,007,320	Local Cost	2,164,880	Foreign Cost	2,842,440		2)							F/S 1)	43,840		15,767		28,073		2)							3)					
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	3)																																									
5.TYPE OF STUDY		3.CONTENTES OF MAJOR PROJECT(S)																																								
6.COUNTERPART AGENCY		<M/P> 1) Main Roads (1) Expressways (12 projects including following 3 projects) Expressway linking Thonburi-Bang Su-Ramkhamheng Expressway linking Phet Kasem and SSE Expressway linking Nonchaburi and Bang Kapi 2) At-grade Main Roads (44 projects) 2) Bus-ways (13 projects)  <F/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																																								
7.OBJECTIVES OF STUDY																																										
8.DATE OF S/W		4.FEASIBILITY AND ITS ASSUMPTIONS				Imp. Period: 1990-1993  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1)</td> <td style="width: 15%;">FIRR1)</td> </tr> <tr> <td>Yes/No</td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </table>		Feasibility:	EIRR1)	FIRR1)	Yes/No	EIRR2)	FIRR2)		EIRR3)	FIRR3)																										
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Yes/No	EIRR2)	FIRR2)																																								
	EIRR3)	FIRR3)																																								
9.CONULTANT(S)		<M/P> 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. <F/S>(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																																								
10.STUDY TEAM		5.TECHNICAL TRANSFER																																								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Accepted of trainees: 3 persons Seminar was held in Bangkok with the attendance of about 300 people.				2.MAJOR REASONS FOR PRESENT STATUS           3.PRINCIPAL SOURCE OF INFORMATION ①, ②																																				
12.EXPENDITURE																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">448,795</td> <td style="width: 15%;">(¥'000)</td> </tr> <tr> <td>Contracted</td> <td>424,258</td> <td></td> </tr> </table>		Total	448,795	(¥'000)	Contracted	424,258																																				
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和名 バンコク首都圏中・長期道路交通計画

{M/P+F/S}

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

Compiled Mar.1991  
Revised Mar.1995

ASE THA/A 203B/89

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="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled																																																																									
2. NAME OF STUDY		Sebai-Sebok-Tang Lung Rivers' Basins in Ubon Ratchathani and Yasothan of Northeastern Thailand<M/P> Priority areas in the basins of Sebai, Sebok and Tang Lung Rivers<F/S>																																																																													
3. SECTOR		2. PROJECT COST		3. CONTENTS 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.  (FY 1993 Overseas Survey) The project was planned to be implemented during 7th 5 years National Development Plan (1991 - 1996), however implementation is now suspended. Since there are many pending requests in RID and the project proposed by JICA study is considered as relatively new project so that the project is planned to be implemented after 1997.  (FY1994 Domestic Survey) No additional information.																																																																									
Agriculture/General		M/P 1) 157,154 Local Cost 2) Foreign Cost (US\$1,000) F/S 1) 65,308      34,231      31,077 2) 3)		<M/P>Major agricultural infrastructural development Projects: 1. Short-term Plan (1990 - 1996) <table style="width: 100%; border-collapse: collapse;"> <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 Hung)</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 style="width: 100%; border-collapse: collapse;"> <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> <F/S>The Study examined the feasibility of five priority projects selected from 14 medium-size water storage projects proposed in the Short-term Development Plan. <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Project</th> <th>River Basin</th> <th>Irrig. Area (ha)</th> <th>Cost (million yen)</th> </tr> </thead> <tbody> <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> </tbody> </table>					No. of projects	Irrig. Area (ha)	Cost (million yen)	Medium-size water storage	14	18,750	8,360	Pumping stations (Pak Hung)	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	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.		4. FEASIBILITY AND ITS ASSUMPTIONS		Imp. Period:    1990-.1996    .1996-.2006																																																																											
5. TYPE OF STUDY		Feasibility:    EIRR1)    8.60    FIRR1) Yes/No        EIRR2)                    FIRR2) EIRR3)                    FIRR3)																																																																													
6. COUNTERPART AGENCY		10. STUDY TEAM		2. MAJOR REASONS FOR PRESENT STATUS																																																																											
RID (Royal Irrigation Dept.), Ministry of Agriculture and Cooperatives		No. of Members    9 Period Sep.1988-Nov.1989 (14 months)																																																																													
7. OBJECTIVES OF STUDY		Total M/M            Japan            Field 62.63                25.63            37.00																																																																													
Preparation of a basin-wise agricultural development plan and feasibility study of the priority projects		Conditions and Development Impacts: <M/P>Conditions: (1) 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, construction of main canals. (3) 20% of the irrigable area will be planted with upland crops during the dry season. Development impacts: 1) The irrigated area will be increased to 42,390ha, 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. <F/S>Impacts: 1) Increase of production; wetland paddy 18,942(t), upland crops 7,361(t), inland water fisheries 585(t) 2) Increase of the typical farmer's income (3.2 ha) Non-agri. income    (Before) 8,871 bahts    (after) 8,871 bahts Farmer's income    19,942                    57,956																																																																													
8. DATE OF S/W		11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		3. PRINCIPAL SOURCE OF INFORMATION																																																																											
Apr. 1988				①, ②, ③																																																																											
9. CONSULTANT(S)		12. EXPENDITURE																																																																													
Sanyu Consultants Inc. Naigai Engineering Co., Ltd.		Total            202,871 (¥000) Contracted      196,966																																																																													
		5. TECHNICAL TRANSFER																																																																													
		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.																																																																													

和名 セバイ・セボック流域開発計画

(M/P+F/S)

# PROJECT SUMMARY (F/S)

Compiled Mar.1991  
Revised Mar.1995

ASE THA/S 322/89

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 checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Purification of Klong Water in Bangkok	Bangkok City Study Area 380 sq.km Population 3.7 million				
3.SECTOR	Public Utilities/Sewerage	2.PROJECT COST			(Description) Two JICA experts are dispatched to the Department of Drainage and Sewerage of Bangkok Metropolitan Administration, the executive agency of the Project. And the experts are also engaged in promoting the implementation of the project.  (FY1991 Overseas Survey) Detail design Period : 1991 - present (including the simulation study of water quality) Consultant's country: Thailand Source of finance : Thai Government  Construction Period : 1993- Country of main contractors: Thailand  (FY1993 Overseas Survey) Coming schedule is as follows;  1993-94 D/D by BMA's budget 1994-97 Construction Work Total cost will be 318 million baht.  (FY1994 Domestic Survey) No additional information.	
4.REFERENCE NO.		Total Cost    Local Cost    Foreign Cost (US\$(,000))    1)    8,920    6,120    2,800 US\$1=145Yen    2) 3)				
5.TYPE OF STUDY	F/S	3.CONTENTS OF MAJOR PROJECT(S)				
6.COUNTERPART AGENCY	Department Drainage and Sewerage, Bangkok Metropolitan Administration	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. 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.				
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				
10.STUDY TEAM	No.of Members 10 Period Dec.1987-Feb.1990 (27 months)	Feasibility:    EIRR (1)    FIRR (1) Yes/No    EIRR (2)    FIRR (2) EIRR (3)    FIRR (3)				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey Construction of Aerated Lagoon Treatment System	Conditions and Development Impacts: 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.				
12.EXPENDITURE	Total 236,286 (¥'000) Contracted 206,294	5.TECHNICAL TRANSFER				
		Consecutive observation of klong water quality and water flow. Simulation analysis of klong water quality by computer.				
					2.MAJOR REASONS FOR PRESENT STATUS	
					3.PRINCIPAL SOURCE OF INFORMATION	①, ②

和名 バンコク市クローン水質改善計画

{F/S,D/D}



# PROJECT SUMMARY (F/S)

ASE THA/S 323/89

Compiled Mar.1991  
Revised Mar.1995

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		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled										
2.NAME OF STUDY	Measures to Promote the Container Handling System through Laem Chabang Port	2.PROJECT COST		Total Cost	Local Cost			Foreign Cost									
3.SECTOR	Transportation/Port			(US\$1,000)	1) 47,461	21,420	11,020										
4.REFERENCE NO.				US\$=Baht.25.6=133 yen	2)												
5.TYPE OF STUDY	F/S				3)												
6.COUNTERPART AGENCY	OESB, NESDB, NOTC, PAT, SRT, BSAA	3.CONTENTES OF MAJOR PROJECT(S)				(Description) Oct. 1991: The 1st phase of construction work was completed. Two of container berths were lent to private sector, began to be operated. The management body of ICD was determined as SRT was permitted to construct ICD in Lard Krabang. The beginning of the work will delay due to the increase of land acquisition cost.  (FY 1991 Overseas Survey) SRT will employ engineering consultant firms to review the number of ICDs.  (FY1993 Overseas Survey) 1993-94 D/D by RTG budget Site area increased to 100 ha. Feb.94 - Apr.95 Construction Work (scheduled)  <table style="margin-left: 20px;"> <tr><td>Cost: Land Acquisition .....</td><td>939</td></tr> <tr><td>(million baht) D/D .....</td><td>37</td></tr> <tr><td>Construction .....</td><td>874</td></tr> <tr><td>Operation Cost .....</td><td>7</td></tr> <tr><td>Total .....</td><td>1,857</td></tr> </table> (FY1994 Domestic Survey) No additional informaiton.		Cost: Land Acquisition .....	939	(million baht) D/D .....	37	Construction .....	874	Operation Cost .....	7	Total .....	1,857
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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.	Construction of an inland container depot(ICD) (Long-term) a 48ha ICD including 6 CPSS for handling 2.1 million tons of container cargo in 2001. (6 berths) (Short-term) a 32ha ICD including 4 CPSS for handling 1.3 million tons of container cargo in 1996. Stage 1: container berth 2, break-bulk berth 1, agri-bulk loading facilities (total 4 berths) 1)Facilities in each ICD: container freight station, container yard, container handling machines, gates, office, maintenance repair shop, parking space. 2)Administration Zone: main office 1,200sq.m, overtime cargo warehouse 2,100sq. m 3)Spur Line: The Lat Krabang ICD will be connected to the Eastern Line. (radius at least 300m, length 500m)															
8.DATE OF S/W	Dec.1987	Imp. Period:		.1989-Aug.1991	.1994-.1996												
9.CONSULTANT(S)	Overseas Coastal Area Development Institute Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 17.60 EIRR2) EIRR3)	FIRR1) 6.50 FIRR2) FIRR3)											
10.STUDY TEAM	No.of Members 12 Period Mar.1988-Jul.1989 (16 months)  <table style="margin-left: 20px;"> <tr><td>Total M/M</td><td>Japan</td><td>Field</td></tr> <tr><td>71.80</td><td>31.90</td><td>39.90</td></tr> </table>	Total M/M	Japan	Field	71.80	31.90	39.90	Conditions and Development Impacts: Conditions: a)Economic Growth Rate: 6.5%(-1990)5%(1991- ) b)Container Cargo Volume in Thailand: 1996 15,560,000tons(1,487,000TEUS) / 2001 19,832,000tons(1,818,000TEUS) c)Laem Chabang Port Development: container cargo 1996: 6.8 million tons(638,000TEUS) 2001: 10.6 million tons(953,000TEUS) container berth 1996: 4, 2001:6  Development Impact: 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.									
Total M/M	Japan	Field															
71.80	31.90	39.90															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	O/D. Survey	5.technical transfer				2.MAJOR REASONS FOR PRESENT STATUS  This project is a main part of the Development Project of Laem Chabang Coastal Area which is planned as a national project.  (FY1991 Overseas Survey) There are several private companies operating ICDs on Bangna Trad Highway near Lard Krabang ICD.											
12.EXPENDITURE	Total 190,597 (¥'000) Contracted 188,539	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						3.PRINCIPAL SOURCE OF INFORMATION ①, ②, ④									

和名ラムチャバン港輸送施設計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar.1991

Revised Mar.1995

ASE THA/A 313/89

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 checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled									
2.NAME OF STUDY Agricultural Water Development Project on Chantaburi River Basin		Chantaburi River Basin (East Coast)													
3.SECTOR Agriculture/General		2.PROJECT COST (US\$1,000)		Total Cost	Local Cost	Foreign Cost									
4.REFERENCE NO.				1) 122,000	42,000	80,000									
5.TYPE OF STUDY F/S		3.CONTENTS OF MAJOR PROJECT(S)		(Description) 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. A D/D study is under way with GOT finance. The project will be implemented with GOT finance. (as of March 1993)  (FY1991 Overseas Survey) The project is tentatively incorporated in the Seventh National Plan (1992-1996).  (FY1992 Overseas Survey) Waiting for the answer.  (FY 1993 Domestic Survey) D/D of Khulong Sai Sai and Khulong Ta Uri has been initiated since 1992 and Environmental Impact Study is to be initiated in 1994. Preparatory work for dam construction in Khulong Sai Sai is now undertaken and the dam construction is to be initiated in 1994 by government budget of 172 million Bahts.  (FY 1993 Overseas Survey) (FY 1993 Domestic Survey) D/D of Khulong Sai Sai and Khulong Ta Uri has been initiated since 1992 and Environmental Impact Study is to be initiated in 1994. Preparatory work for dam construction in Khulong Sai Sai is now undertaken and the dam construction is to be initiated in 1994 by government budget of 172 million Bahts.  (FY1994 Domestic Survey) D/D and construction of Khulong Sai Sai were started in 1994 and planned to be completed in 1996. The construction budget including D/D is 172 million Baht. Khulong Ta Liu is not started yet.											
6.COUNTERPART AGENCY Royal Irrigation Department, Ministry of Agriculture and Cooperatives (MOAC)		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.  1. Storage Dams: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Type</th> <th style="width: 20%;">Cap.(cu.m)</th> <th style="width: 20%;">Dam Height(m)</th> <th style="width: 30%;"></th> </tr> </thead> <tbody> <tr> <td>Khlong Ta Liu Dam: rock-fill</td> <td style="text-align: center;">35.85 million</td> <td style="text-align: center;">87.5</td> <td style="text-align: right;">4,700,000</td> </tr> <tr> <td>Khlong San Sai Dam: earth</td> <td style="text-align: center;">10.55</td> <td style="text-align: center;">16.2</td> <td style="text-align: right;">571,000</td> </tr> </tbody> </table>					Type	Cap.(cu.m)	Dam Height(m)		Khlong Ta Liu Dam: rock-fill	35.85 million	87.5	4,700,000	Khlong San Sai Dam: earth
Type	Cap.(cu.m)	Dam Height(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												
7.OBJECTIVES OF STUDY Feasibility study on water resources development plan within the subject river basin and irrigation plan for fruits plantation		2. Diversion Weir: water intake 3.5 cu.m/sec.													
8.DATE OF S/W Mar.1987		3. Water Conveyance Pipeline: Length 111.6km, dias. 350mm ~ 1,600mm													
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)		Conditions and Development Impacts: 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.  Condition: - Cost-sharing by the beneficiaries is 20% of the total project cost.  Development impacts: - Additional area of 3,500 ha planted to fruits, and an increase of production by 97,000 tons - 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. - An increase of the typical farmer's cash income will range from 47% to 110%.													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER		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.											
12.EXPENDITURE Total 203,038 (¥'000) Contracted 193,112		On the job training		3.PRINCIPAL SOURCE OF INFORMATION ①, ②, ③											

和名 チャンタブリ川流域農業水利開発計画

[F/S,D/D]

# PROJECT SUMMARY (M/P)

Compiled Mar.1992  
Revised Mar.1995

ASE THA/S 107/90

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)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued	
2.NAME OF STUDY	Upper Central Region Study	2.PROJECT COST	Total Cost	Local Cost	(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.		
3.SECTOR	Development Plan/Integrated Regional Development Plan	(US\$1,000)	1)	2)			
4.REFERENCE NO.		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.			(FY1991 Overseas Survey) Suphan Buri - Tha Rua - Saraburi Highway is under construction. The following P/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.  (FY1992 Overseas Survey) Waiting for the answer.  (FY1993 Overseas Survey) - Most of transport projects have been completed. - Pasak Dam Project is under preparation.  (FY1994 Domestic Survey) - Pasak Dam project is being prepared - Sara Buri Industrial Estate has been completed by local capital alone and now used by a number of factories. - Suphan Buri-Talua-Sara Buri Highways have been completed by local capital alone. - Klong 19-Kaeng Khoi Railway is underconstruction with a support of Yen Credit.	
5.TYPE OF STUDY	M/P	6.COUNTERPART AGENCY					
7.OBJECTIVES OF STUDY	Preparation of regional development plan toward the year of 2010	8.DATE OF S/W	Jul.1988			2.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.	
9.CONSULTANT(S)	International Development Center of Japan Pacific Consultants International	10.STUDY TEAM	No.of Members 19 Period Dec.1988-Jul.1990(19 months)				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Socio-economic study Distribution Study Landsat Image Analysis	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.			3.PRINCIPAL SOURCE OF INFORMATION ①, ②, ③	
12.EXPENDITURE	Total 345,499 (¥000) Contracted 330,355	5. TECHNICAL TRANSFER					

和名 中央平原北部地域総合開発計画

{M/P,Basic Study,Other}

# PROJECT SUMMARY (M/P)

ASE THA/S 108/90

Compiled Mar.1992

Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																
1.COUNTRY	Thailand	1.SITE OR AREA	Pattaya Municipality (53.4 sq.km)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued															
2.NAME OF STUDY	Development of Pattaya Area	2.PROJECT COST	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Total Cost</td> <td style="width: 15%; text-align: center;">Local Cost</td> <td style="width: 15%; text-align: center;">Foreign Cost</td> <td style="width: 15%;"></td> </tr> <tr> <td>(US\$1,000)</td> <td style="text-align: center;">1) 140,520</td> <td style="text-align: center;">69,680</td> <td style="text-align: center;">71,840</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> </table>			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.  (FY1991 Overseas Survey) Two projects are underway.  (FY1993 Overseas Survey) Among the proposed projects, in terms of the projects from (1) to (4), the F/S or D/D are under way and the Project (5) has been implementing and completed in 1994, except the Naklua Area. In the case of the Project (7), the filtration plant and pipeline was completed as the first step. For the Project (8), the land was provided and the F/S is under preparation.  (FY1994 Domestic Survey) No additional information	
	Total Cost	Local Cost	Foreign Cost																		
(US\$1,000)	1) 140,520	69,680	71,840																		
	2)																				
3.SECTOR	Development Plan/Integrated Regional Development Plan	3.CONTENTS OF MAJOR PROJECT(S)	(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: Constuction 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.																		
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	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		2.MAJOR REASONS FOR PRESENT STATUS (FY 1991 Overseas Survey) The projects have been integrated into the Eastern Seaboard Development Program.																
5.TYPE OF STUDY	M/P	10.STUDY TEAM	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">No.of Members</td> <td style="width: 15%;">14</td> <td style="width: 15%;">Period</td> <td colspan="2" style="width: 55%;">Mar.1989-Jul.1990(17 months)</td> </tr> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> <td colspan="2"></td> </tr> <tr> <td></td> <td style="text-align: center;">27.34</td> <td style="text-align: center;">39.42</td> <td colspan="2"></td> </tr> </table>				No.of Members	14	Period	Mar.1989-Jul.1990(17 months)		Total M/M	Japan	Field				27.34	39.42		
No.of Members	14	Period	Mar.1989-Jul.1990(17 months)																		
Total M/M	Japan	Field																			
	27.34	39.42																			
6.COUNTERPART AGENCY	Office of Eastern Seaboard	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Tourism Market Survey, etc. 2856000 yen		3.PRINCIPAL SOURCE OF INFORMATION ①, ②, ③																
7.OBJECTIVES OF STUDY	Master plan preparation for urban and tourism development	12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">231,362 (¥'000)</td> <td style="width: 15%;">Contracted</td> <td colspan="2" style="width: 55%;">214,024</td> </tr> </table>				Total	231,362 (¥'000)	Contracted	214,024											
Total	231,362 (¥'000)	Contracted	214,024																		
8.DATE OF S/W	Dec.1988	5.TECHNICAL TRANSFER	Carried out for counterparts from the office of Eastern Seaboard and Pattaya Municipality																		
9.CONSULTANT(S)	Nippon Koei Co., Ltd. Yachiyo Engineering Co., Ltd.																				

和名 パタヤ地区総合開発計画

[M/P, Basic Study, Other]

# PROJECT SUMMARY (M/P)

Compiled Mar.1992  
Revised Mar.1995

ASE THA/S 106/90

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 Traffic Operation Plan for Roads		All trunk roads managed by DOH			(Description)	Preparatory works for the projects are planned to be done in next fiscal year. (Oct.1990 - Sep.1991) Following this study, the aftercare study traffic operation plan for roads was executed, from March 1991 to November 1991, in order to formulate an effective road traffic operation. In the aftercare study, 24 intersections improvement, 6 road section improvement and traffic safety countermeasures for 29 road sections were recommended.  (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.  (FY1993 Overseas Survey) Whenever the budget is available, the plan is followed year by year. DOH established the Road Research and Development Center with few DOH staff.  (FY1994 Domestic Survey) No additional information									
3.SECTOR Transportation/Road		2.PROJECT COST													
4.REFERENCE NO.		(US\$1,000) <table style="float: right; margin-left: 20px;"> <tr> <td>Total Cost</td> <td>Local Cost</td> <td>Foreign Cost</td> </tr> <tr> <td>1) 8,000</td> <td>8,000</td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	1) 8,000	8,000		2)				
Total Cost	Local Cost	Foreign Cost													
1) 8,000	8,000														
2)															
5.TYPE OF STUDY M/P		3.CONTENTS OF MAJOR PROJECT(S)													
6.COUNTERPART AGENCY Department of Highways Ministry of Transport and Communications		a) Introduction of Traffic Census System b) Introduction of Traffic Information System c) Introduction of Road Inventory System d) Technical Guideline and Engineering Specification of Traffic Safety and Traffic Control Devices e) Traffic Operation Plan													
7.OBJECTIVES OF STUDY To establish effective traffic operation plan and to perform technology transfer		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 the Urban Area 1 set The above project cost is 8,105.6 (local cost: 7,855.6 and foreign cost: 250.0) in million bahts.													
8.DATE OF S/W Sep.1988		4.CONDITIONS AND DEVELOPMENT IMPACTS													
9.CONSULTANT(S) Central Consultant, Inc. Oriental Consultants Co., Ltd.		Traffic Operation Plan [Conditions] 1) Planning Area : Traffic Problem Section on all DOH road 2) Plans : Counter Measures with not Proposed in Phase I Study - Motorcycle Lane 20 sec - Passing Lane 15 sec - Road Information System 12. sec - Grade Separation 17 sec  3) Project life : 20 years  [Development Impacts] 1) Project Cost : 150 million Bhats 2) B/C : 1.43													
10.STUDY TEAM No.of Members 8 Period Feb.1989-Jun.1990 (17 months)					2.MAJOR REASONS FOR PRESENT STATUS										
<table style="width: 100%; text-align: center;"> <tr> <td>Total M/M</td> <td>Japan</td> <td>Field</td> </tr> <tr> <td>58.06</td> <td>21.51</td> <td>36.55</td> </tr> </table>		Total M/M	Japan	Field	58.06	21.51	36.55								
Total M/M	Japan	Field													
58.06	21.51	36.55													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY 1. Traffic Survey 2. Topographic Survey															
12.EXPENDITURE		5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION										
<table style="width: 100%;"> <tr> <td>Total</td> <td>199,824 (*000)</td> </tr> <tr> <td>Contracted</td> <td>176,982</td> </tr> </table>		Total	199,824 (*000)	Contracted	176,982	Technical transfer has been performed on following items. - Basic conception and technical method for the introduction of each system			①, ②, ③						
Total	199,824 (*000)														
Contracted	176,982														

和名 道路交通運用計画

{M/P,Basic Study,Other}

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

Compiled Mar.1992  
Revised Mar.1994

ASE THA/S 211B/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							
2.NAME OF STUDY		Phuket Municipality, Thailand											
Sewerage and Drainage Improvement Project for Phuket Municipality		2.PROJECT COST (US\$1,000)		M/P 1) 42,463 Local Cost	25,478 Foreign Cost	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled							
3.SECTOR				F/S 1) 14,896	6,703			(Description) In the proposed projects, sewerage and flood control projects, PWD requested and prepared the application through the Thai Government to Japanese Government regarding sewerage project for Japanese Grant Aid project, but it was not approved. The Thai Government will implement the project with its own finance.  (FY 1991 Overseas Survey) Detail Design: From 1992 to 1993 Construction : From 1994 to 1996  (FY1993 Overseas Survey) Oct.92 - Feb.93 Preparation of bidding document Oct.93 - Dec.93 Bidding evaluation Mar.94 - Oct.96 D/D and implementation are scheduled.  PWA will implement the project by turn-key contract. PWA's budget will cover total cost, 390 million baht. PWA's budget constraints caused reduction of designed sewerage flow from the JICA study.					
Public Utilities/Sewerage				2) 7,799	3,777								
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)											
5.TYPE OF STUDY		M/P+F/S											
6.COUNTERPART AGENCY		Public Works Department Ministry of Interior											
7.OBJECTIVES OF STUDY		Develop a comprehensive master plan for sewerage and flood control system for Phuket Municipality. Provided a feasibility study for proposed master plan of sewerage and flood control system											
8.DATE OF S/W		Feb.1989											
9.CONSULTANT(S)		Nippon Jogesuido Sekkei Co., Ltd. Nippon Koei Co., Ltd.											
10.STUDY TEAM		No.of Members 11 Period Jul.1989-Aug.1990(14 months)											
		<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">50.29</td> <td style="text-align: center;">26.17</td> <td style="text-align: center;">24.12</td> </tr> </table>				Total M/M	Japan	Field	50.29	26.17	24.12		
Total M/M	Japan	Field											
50.29	26.17	24.12											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		-Topographical Survey ; -Geological Survey -Water Quality Analysis											
12.EXPENDITURE		<table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">180,370 (¥'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">159,092</td> </tr> </table>				Total	180,370 (¥'000)	Contracted	159,092				
Total	180,370 (¥'000)												
Contracted	159,092												
		4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes/No    EIRR1) 12.50    FIRR1) EIRR2)    FIRR2) EIRR3)    FIRR3)											
		Conditions and Development Impacts: <M/P> 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. <F/S> 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. 2.Flood Control System: -Reduce the flood damage    -Improvement Economic Activity in Study Area -Increase the land value.											
		5.TECHNICAL TRANSFER											
		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.											
		2.MAJOR REASONS FOR PRESENT STATUS											
		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.											
		3.PRINCIPAL SOURCE OF INFORMATION											
		①②											

和名 プーケット市下水排水改善計画

[M/P+F/S]

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

Compiled Mar.1992  
Revised Mar.1995

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		Bangkok Metropolitan Administration Area		1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled		
2. NAME OF STUDY		2. PROJECT COST		3. CONTENTS OF MAJOR PROJECT(S)		(Description) 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. (FY 1992 Overseas Survey) Waiting for the answer. (FY1993 Overseas Survey) 1. Sanitary Landfill Land acquisition trouble in Ram Intra caused the project to be discontinued. Then, BMA is preparing garbage transfer stations at Ram Intra, Nongkam and On-nui and sanitary landfills at Nakhon Pathom and Chachoengsao. 2. Incineration Plant In FY 1994, BMA budgeted Bht.32 million to restudy the plant. After the study, the plant will be constructed by turnkey contract. (FY1994 Domestic Survey) The expert on the incineration was dispatched to the Department of Public Cleaning of Bangkok by JICA in Jun.1994.			
Bangkok Solid Waste Management (II)		(US\$1,000)		<M/P> 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 <F/S> 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					
3. SECTOR		M/P 1) 54,700 Local 43,300 Foreign 11,400 2) 74,000 Cost 40,200 Cost 33,800		F/S 1) 18,000 14,800 3,200 2) 74,000 40,200 33,800					
Public Utilities/Urban Sanitation									
4. REFERENCE NO.									
5. TYPE OF STUDY		M/P+F/S							
6. COUNTERPART AGENCY		Bangkok Metropolitan Administration (BMA) Department of Public Cleaning (DPC)							
7. OBJECTIVES OF STUDY		Preparation of a master plan and feasibility study on priority projects. To study feasibility of sanitary landfill and incineration plant.							
8. DATE OF S/W		Aug.1989							
9. CONSULTANT(S)		EX Cor. Pacific Consultants International		Imp. Period: 1992					
		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No		EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)			
10. STUDY TEAM		No. of Members 11 Period Dec.1989-Mar.1991(16 months)		Conditions and Development Impacts: <M/P,F/S> 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.) 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. 3. Improvement on Waste Collection Systems It will contribute to cost reduction and increase in collection efficiency.					
		Total M/M Japan Field 64.98 25.74 39.24				2. MAJOR REASONS FOR PRESENT STATUS			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		1. Water quality analysis 2. Chemical composition analysis of water 3. Geological survey				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.			
12. EXPENDITURE		Total 193,188 (¥000) Contracted 187,139		5. TECHNICAL TRANSFER		3. PRINCIPAL SOURCE OF INFORMATION			
				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.		①, ②			

和名 バンコク廃棄物処理計画

{M/P+F/S}

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

Compiled Mar.1992  
Revised Mar.1995

ASE THA/A 204B/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT			
1. COUNTRY	Thailand	1. SITE OR AREA		M/P for Tha Lat River Basin, Chachoengsao Providence. F/S for Bang Pakong River Basin which encompasses four Provinces of Chonburi.		I. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled		
2. NAME OF STUDY		2. PROJECT COST				(Description) - 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.  - 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.  - Thai government requested technical cooperation to Japanese government on the implementation of detailed design for the above-mentioned project.  (FY 1991 Overseas Survey) The detail design will be conducted from 1992 to 1993.  (FY 1993 Domestic Survey) F/S of Bang Pakong River Weir and Khulong Shat Dam was conducted. D/D of Bang Pakong River Weir was carried by JICA and was completed in 1993. Approximately 80% of land acquisition of the project site is completed. Bid is planning to initiate weir construction by government budget. D/D and EIA study of Khulong Shat Dam construction is conducted by government budget and preparatory work is now undertaken.  (FY1994 Domestic Survey) D/D was completed by JICA in 1992-1993. The project was decided to be implemented by the Government budget. After the selection of consultant on Aug. 1994, bidding procedure for the construction and commencement of the work is to be completed in 1995. The budget is 132 million baht.			
Agricultural Water Resources Development Project of Bang Pakong River Basin		(US\$1,000)							
3. SECTOR		M/P 1) 1,374,000 Local 719,000 Foreign 655,000							
Agriculture/General		2) Cost Cost							
4. REFERENCE NO.		F/S 1) 352,120 184,320 167,800							
5. TYPE OF STUDY		2) 3)							
6. COUNTERPART AGENCY		3. CONTENTS OF MAJOR PROJECT(S)							
Royal Irrigation Department, Ministry of Agriculture and Cooperatives		M/P (target year: 2000)							
7. OBJECTIVES OF STUDY		1. 1st Stage: 3 sub-basins, 2 storage dams, 2 diversion weirs, agri.land dev.46,400ha							
Feasibility Study for water resources development		2. 2nd Stage: 2 sub-basins, 2 storage dams, agri.land dev. 66,400ha							
8. DATE OF S/W		3. 3rd Stage: 8 sub-basins, 9 storage dams, agri.land dev. 294,400ha							
Mar.1989		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.							
9. CONSULTANT(S)		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							
Sanyu Consultants Inc.		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							
10. STUDY TEAM		Imp. Period: 1992-1998							
No. of Members 13		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes					
Period Sep.1989-Sep.1990 (13 months)		EIRR1) 11.70 FIRR1)		EIRR2) FIRR2)					
Total M/M Japan Field		EIRR3) FIRR3)				2. MAJOR REASONS FOR PRESENT STATUS  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.			
86.24 32.11 54.13		Conditions and Development Impacts: Planning Conditions: 1) Irrigation development assumes: introduction of double cropping on the existing paddy fields; expansion of agricultural land; shift from cassava to more profitable cash crops increase in yield. 2) Water requirements by households, industries and fisheries in 2000 are taken into account. 3) 13 storage dam sites are selected from 22 possible locations assuming cropping intensity of 150% over some 400,000 ha. 4) B/C ratios in M/P: highest area 1.83, lowest 0.23, whole 1.04. 5) EIRR: Stage I 14.0%, Stage II 9.7%, entire project 11.7%. Development Impacts: 1) Irrigation development in parallel with water resource development can ensure efficient water utilization. 2) Increase in agricultural and inland fishery production. 3) Stable water supply for industries and households. 4) Creation of employment, better roads, better sanitary conditions, etc..							
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER						3. PRINCIPAL SOURCE OF INFORMATION ①, ②, ③	
12. EXPENDITURE		Technical transfer was carried out through the field survey especially on the aspects of planning method and dam design technique							
Total 214,029 (¥'000)									
Contracted 181,557									

和名 バンパゴン川流域農業水利開発計画

(M/P+F/S)



# PROJECT SUMMARY (F/S)

ASE THA/A 314/90

Compiled Mar.1992  
Revised Mar.1995

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 checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY		Thung Sai Yart (5,600ha) and Nong Khon Kaen (1,300ha) in Sukhothai Provic					
Sukhothai Integrated Agricultural and Rural Infrastructure Development Project		2. PROJECT COST		Total Cost	Local Cost	Foreign Cost	
		(US\$1,000)		1) 17,597	4,964	12,633	
		US\$1=25 Bahts		2)			
3. SECTOR		3. CONTENTS OF MAJOR PROJECT(S)				(Description) 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.  (FY1991 Overseas Survey) At present, priority or urgency of the project is not ranked high.  (FY1993 Overseas Survey) Construction of 2 reservoirs and 7.3km of road improvement in Non Khon Ken and 40 km of farm road improvement and construction of 13 rural water supply facility were completed by government budget in 1993. Construction of water reservoir in Non Khon Khen is to be implemented from 1994.  (FY1994 Domestic Survey) The executing agency had an idea to implement the project under the OECF loan. However, the application was turned down at the Government level and promoted for implementation with the Government budget.	
Agriculture/General		Thung Sai Yart		Nong Khon Kaen			
4. REFERENCE NO.		14 places		8 places			
5. TYPE OF STUDY		F/S		F/S			
6. COUNTERPART AGENCY		Agricultural Land Reform Office (ALRO), Ministry of Agriculture and Agricultural Cooperatives		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 Yart 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			
10. STUDY TEAM		No. of Members 10		Period Jul.1989-Jul.1990 (13 months)			
		Total M/M		Japan			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		- Test Well Drilling & Geological Survey: ¥6,471,000.-		- Water Quality Test: ¥279,000.-			
		12. EXPENDITURE		Total 158,547 (¥'000)		Contracted 153,066	
12. EXPENDITURE		Total 158,547 (¥'000)		Contracted 153,066			
		5. TECHNICAL TRANSFER		(1) On-the-Job Training (2) Seminar (Sukhothai & Bangkok) on Integrated Agricultural/Rural Development			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts:				2. MAJOR REASONS FOR PRESENT STATUS	
		1) The basic concept of the project follows the policy of the 6th 5-year plan. 2) The development concept based on diversified agriculture under rained condition could be applicable to other similar areas with demonstration effect. 3) ALRO could upgrade their engineering and managerial capabilities through project implementation. 4) The project would contribute to eradicating poverty and to solving regional income differential in backward villages through increasing income and upgrading living standard.					
12. EXPENDITURE		5. TECHNICAL TRANSFER				3. PRINCIPAL SOURCE OF INFORMATION	
		(1) On-the-Job Training (2) Seminar (Sukhothai & Bangkok) on Integrated Agricultural/Rural Development					

和名 スコタイ農村総合整備計画

(F/S,D/D)

# PROJECT SUMMARY (D/D)

ASE THA/S 405/90

Compiled Mar. 1992  
Revised Mar. 1995

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			1. PRESENT STATUS <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY Area Traffic Control Project in Bangkok		2. PROJECT COST		Total Cost 20,000	Local Cost 20,000	
3. SECTOR Transportation/Urban    Transportaion		3. CONTENTS OF MAJOR PROJECT(S)			(Description) (FY1993 Overseas Survey) Aug. 92 - Jun. 93    D/D was revised by BMA budget. It costed 40 million Baht. Jan. 94 - Jul. 95    Implementation is scheduled BMA budgeted 227 million Baht.  (FY1994 Domestic Survey) No additional information.	
4. REFERENCE NO.		1) ATC signalized intersections...143				
5. TYPE OF STUDY		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.				
6. COUNTERPART AGENCY		3) Transmission system and communication lines will be installed.				
7. OBJECTIVES OF STUDY		4) 143 local controllers and 460 vehicle detectors will be equipped.				
8. DATE OF S/W		5) 5 CCTV cameras will be provided at intersection.				
9. CONSULTANT(S)		6) 67 intersections will be improved.				
10. STUDY TEAM		4. FEASIBILITY AND ITS ASSUMPTIONS				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				
12. EXPENDITURE		6. MAJOR REASONS FOR PRESENT STATUS				
13. PRINCIPAL SOURCE OF INFORMATION		7. ...				

和名 バンコク市交通制御システム整備計画

(F/S,D/D)

# PROJECT SUMMARY (M/P)

Compiled Mar.1993  
Revised Mar.1995

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	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	Toll Highway Development	2.PROJECT COST					
3.SECTOR	Transportation/Road			Total Cost    Local Cost    Foreign Cost			
4.REFERENCE NO.				(US\$1,000)			
5.TYPE OF STUDY	M/P			1)    4,000,000    2,400,000    1,600,000			
6.COUNTERPART AGENCY	Department of Highways, Ministry of Transport and Communications			2)    6,000,000    3,600,000    2,400,000			
7.OBJECTIVES OF STUDY	Study on the inter-city toll motorway network development	3.CONTENTS OF MAJOR PROJECT(S)		4.CONDITIONS AND DEVELOPMENT IMPACTS			
8.DATE OF S/W	Oct.1989	Construction of 4,300km inter-city toll motorway network. Phase 1 1991-1995    900km Phase 2 1996-2000    1,000km Phase 3 2001-2010    2,400km					
9.CONSULTANT(S)	Katahira & Engineers International Nippon Koei Co., Ltd.	1)Condition The trip number in 2010 will be 3.4 times as much as that in 1990.		2.MAJOR REASONS FOR PRESENT STATUS			
10.STUDY TEAM	No.of Members    12 Period Feb.1990-Jun.1991(17 months)	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.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Traffic Surveys	3.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION			
12.EXPENDITURE	Total                    333,451 (¥000) 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					

和名 有料高速道路計画

[M/P,Basic Study,Other]

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

Compiled Mar.1993  
Revised Mar.1995

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 checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled								
2.NAME OF STUDY	Road Development in the Southern Region	2.PROJECT COST (US\$1,000)	M/P 1) 2) F/S 1) 2) 3)	Local Cost	Foreign Cost			(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.  (FY1993 Overseas Survey) There is no subsequent study after the JICA study. However, the Department has been conducting road development in the region by RTG annual budget in accordance with the National Highway Plan.  (FY1994 Domestic Survey) No additional information.							
3.SECTOR	Transportation/Road	3.CONTENTS OF MAJOR PROJECT(S)													
4.REFERENCE NO.		<M/P>The road improvement M/P cunfill 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 lanes : 1,460km 4. Widening to six-meter lanes : 130km 5. Reconstruction and upgrading : 132km (in total: 2,622km) <F/S> The priority projects with the target year 1996 are as follows: (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] 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 constructin of "Trans Thai Land Bridge"). The project and construction costs of three route alternatives are as follows: [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]													
5.TYPE OF STUDY	M/P+F/S				4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No		EIRR1) 14.80    FIRR1) EIRR2) 13.70    FIRR2) EIRR3) 14.80    FIRR3)						
6.COUNTERPART AGENCY	Department of Highways Ministry of Transport and Communications	Imp. Period: .1992-.1996													
7.OBJECTIVES OF STUDY	1)To carry out F/S on the selected projects in the M/P; 2)To carry out F/S on the Krabi-Khanom link as a part of the Southern Seashore Development Plan(SSDP); and 3)To perform technology transfer to Thai counterpart personnel in the course of study.	5.TECHNICAL TRANSFER													
8.DATE OF S/W	Oct.1989	Methods of Traffic Demand Forecast and Computer Utilization													
9.CONSULTANT(S)	Pacific Consultants International Oriental Consultants Co., Ltd.	10.STUDY TEAM													
		No.of Members    8 Period Feb.1990-Sep.1991(20 months)  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">67.98</td> <td style="text-align: center;">5.73</td> <td style="text-align: center;">62.25</td> </tr> </table>			Total M/M	Japan	Field		67.98	5.73	62.25			2.MAJOR REASONS FOR PRESENT STATUS	
Total M/M	Japan	Field													
67.98	5.73	62.25													
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Social and Economic Survey Soil Survey Traffic Survey	12.EXPENDITURE													
		Total                    277,624 (¥'000) Contracted            273,090													
					3.PRINCIPAL SOURCE OF INFORMATION										
					①、②										

和名 南部道路網整備計画

[M/P+F/S]

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

Compiled Mar.1993  
Revised Mar.1995

ASE THA/A 205B/91

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 checked="" type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled						
2.NAME OF STUDY Integrated Rural Development of Salt-affected Land in Notheast Thailand		Amphoe Phra Yun, Changwat Khon Kaen, Norht-east Thailand										
3.SECTOR Agriculture/General		2.PROJECT COST		M/P 1) 50,000 Local   23,000 Foreign   27,000 2) Cost   Cost		(Description) Japanese government excluded Thailand from acceptor of Japan's grant aid assistance, and it is confirmed at the annual meeting of grant aid and technical assistance in FY 1992. The request of this project for grant aid was listed by DTEC, however it was not listed in the formal request because of the low priority in the Thai government.  (FY 1993 Overseas Survey) No additional information available. DLD recognize that it is difficult to secure financial arrangement for the implementation of the project. DLD is planning to reduce project scale from 4,500 to 800ha and to implement as a verification trial, however details is not yet known.  (FY1994 Domestic Survey) The executing agency has a plan to implement a small scale trial project for rural and land development, and is also seeking a possibility to implement a pilot project using foreign loan.						
4.REFERENCE NO.		US\$1=25.0Bahts		F/S 1) 12,600   4,800   7,800 2) 3)								
5.TYPE OF STUDY		3.CONTENTS OF MAJOR PROJECT(S)										
6.COUNTERPART AGENCY Department of Land Development, Ministry of Agriculture and Cooperatives		<M/P>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 <F/S>The pilot area is selected to represent major development components which characterize the entire study area. 1) Irrigation facilities: Two sites along Hwai yang (158ha and 166ha) and one site along the canal to Nong Khu Weir (57ha) 2) Drainage improvement: 820ha(salt-affected land 300ha, slightly salt-affected land 520ha) 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) 4) Rural Water Supply: 4 Villages (3,800 persons) 5) Forestry & Social Services: Training and recreation, Market facilities *Project life of M/P and F/S is assumed 50 years.										
7.OBJECTIVES OF STUDY Formulation of a Master Plan and economic evaluation of the pilot project		Imp. Period: 1992-1997										
8.DATE OF S/W Nov.1989		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: EIRR1) 9.50   FIRR1) Yes/No.   EIRR2)   FIRR2) EIRR3)   FIRR3)								
9.CONSULTANT(S) Sanyu Consultants Inc.		10.STUDY TEAM No. of Members 12 Period Mar.1990-Oct.1991(7 months)  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">65.00</td> <td style="text-align: center;">27.30</td> <td style="text-align: center;">37.70</td> </tr> </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		Conditions and Development Impacts: <M/P><Assumptions> 1) Irrigation and salination control 2) Introduction of a agroforestry system 3) Agricultural diversification <Impact> Quantifiable benefits are estimated to be 87.3 mill. Bahts (agriculture 78.1, inland fisheries 4.7, village water supply 0.8, and rural road 3.7), with an EIRR of 8.1%. <F/S><Assumptions> 1) Grassland improvement in severely salt-affected land for animal grazing (210ha); 2) Paddy cultivation (2,150ha); 3) Agroforestry(1,840ha) <Impacts> 1) 2.2-time increase of rice production; 2) intensive horticulture(tomato & watermelon); 3) 1.7-time increase in number of cattle/water buffaloes; 4) 4.3-time increase of the area planted to mulberry. Quantifiable benefits are estimated to be 17.4 million bahts (agriculture 15.6, inland fisheries 0.5, village water supply 0.8, and rural road 0.5 million). Annual gross farming income 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.										
12.EXPENDITURE Total 253,905 (¥000) Contracted 237,071		5.TECHNICAL TRANSFER On-the job training through field survey and seminar in Khon Kaen.										
		2.MAJOR REASONS FOR PRESENT STATUS Since grant aid by Japanese Government is difficult, this project will be financed by Thai government. However, project-type technical assistance can be sought.										
		3.PRINCIPAL SOURCE OF INFORMATION ①, ③										

# PROJECT SUMMARY (F/S)

Compiled Mar.1993  
Revised Mar.1995

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)			<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"/> Partially Completed    <input type="checkbox"/> Delayed or Suspended  <input type="checkbox"/> Implementing  <input checked="" type="checkbox"/> Processing    <input type="checkbox"/> Discontinued or Cancelled                 </p> <p>(Description)</p> <p>A Project-type Technical Cooperation is under consideration. There is no possibility of OECF loan.</p> <p>(FY1992 Overseas Survey) Waiting for the answer.</p> <p>(FY 1993 Overseas Survey) The most urgent site, Fai Non Kho, was selected among 4 project sites and dam construction is planned to be initiated by government budget from 1994. Implementation of other related construction such as irrigation canals is not known yet. In Feb. 1993 ARD made official request for JICA long term expert to DETC.</p> <p>(FY1994 Domestic Survey) Fai Non Kho project among four projects is planned to be implemented with the budget of 48 million Baht. At present, bidding procedure is under-way. ARD will become a supervisor. For the second project D/D works are on-going to be implemented using the Government budget.</p>																				
2.NAME OF STUDY		2.PROJECT COST			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;">Total Cost</td> <td style="width: 15%;">Local Cost</td> <td style="width: 15%;">Foreign Cost</td> </tr> <tr> <td>(US\$1,000)</td> <td>1)</td> <td style="text-align: center;">115,300</td> <td style="text-align: center;">57,900</td> <td style="text-align: center;">57,400</td> </tr> <tr> <td>US\$1=25bahts</td> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1)	115,300	57,900	57,400	US\$1=25bahts	2)					3)			
		Total Cost	Local Cost	Foreign Cost																						
(US\$1,000)	1)	115,300	57,900	57,400																						
US\$1=25bahts	2)																									
	3)																									
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)																								
Agriculture/General		1. Irrigated agriculture development - Irrigation of 9,300ha - Improvement of rained 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 groupe working facilities (36)																								
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">EIRR1)</td> <td style="width: 15%; text-align: center;">7.80</td> <td style="width: 15%; text-align: center;">FIRR1)</td> </tr> <tr> <td>Yes/No</td> <td></td> <td style="text-align: center;">EIRR2)</td> <td></td> <td style="text-align: center;">FIRR2)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">EIRR3)</td> <td></td> <td style="text-align: center;">FIRR3)</td> </tr> </table>			Feasibility:			EIRR1)	7.80	FIRR1)	Yes/No		EIRR2)		FIRR2)			EIRR3)		FIRR3)						
Feasibility:					EIRR1)		7.80	FIRR1)																		
Yes/No					EIRR2)		FIRR2)																			
					EIRR3)		FIRR3)																			
5.TYPE OF STUDY		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.																								
6.COUNTERPART AGENCY					5.TECHNICAL TRANSFER Seminar in integrated rural development at Lower North Thailand in August, 1992 in Bangkok.																					
Office of Accelerated Rural Development, Ministry of Interior.		2.MAJOR REASONS FOR PRESENT STATUS																								
7.OBJECTIVES OF STUDY					3.PRINCIPAL SOURCE OF INFORMATION ①, ③																					
- Master plan on integrated rural development project of 4 provinces - Feasibility study of 4 model projects		10.STUDY TEAM <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">No.of Members</td> <td style="width: 15%;">10</td> <td colspan="3"></td> </tr> <tr> <td>Period</td> <td>Jun.1990-Aug.1991(14 months)</td> <td colspan="3"></td> </tr> <tr> <td>Total M/M</td> <td></td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> <td></td> </tr> <tr> <td></td> <td>66.90</td> <td>26.70</td> <td>40.20</td> <td></td> </tr> </table>						No.of Members	10				Period	Jun.1990-Aug.1991(14 months)				Total M/M		Japan	Field			66.90	26.70	40.20
No.of Members	10																									
Period	Jun.1990-Aug.1991(14 months)																									
Total M/M		Japan	Field																							
	66.90	26.70	40.20																							
8.DATE OF S/W		Imp. Period: .1992~.1997			11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Topographic mapping Analysis of soil and water samples																					
9.CONSULTANT(S)		Sanyu Consultants Inc. Pacific Consultants International																								
12.EXPENDITURE					12.EXPENDITURE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">222,913 (¥'000)</td> <td colspan="3"></td> </tr> <tr> <td>Contracted</td> <td>218,890</td> <td colspan="3"></td> </tr> </table>		Total	222,913 (¥'000)				Contracted	218,890													
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Contracted	218,890																									
Total 222,913 (¥'000) Contracted 218,890																										

和名 北タイ南部農村総合開発計画

[F/S,D/D]



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

ASE THA/S 214B/92

Compiled Mar.1994  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																												
1.COUNTRY	Thailand	1.SITE OR AREA	Bangkok Metropolitan Area (Bangkok, Pathum Thani, Samutprakarn, Nonthaburi) & the surrounding area (Nakhon Pathum, Samut Sakhon, Ayutthaya).			I.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled																											
2.NAME OF STUDY	Regional Development Plan for Telecommunication Networks in the Bangkok Metropolitan Area	2.PROJECT COST						M/P 1) Local Cost	Foreign Cost																									
3.SECTOR	Communications & Broadcasting/Telecommunication	(US\$1,000)	2) 7,926,560	3,181,800	4,744,760	(Description) <M/P> Thai Government employed a BTO (Build, Transfer and Operation) scheme for the implementation of the seventh TOT ESDP expansion project (192-1996). Three million telephone lines are to expand in the whole country by the BTO scheme. In the Bangkok Metropolitan Area, Telecom Asia Co. was awarded concession by government to construct and maintain two million local telephone lines. The private company is now under the construction stage. The study report is referred by TOT to control the expansion project, and some targets proposed for upgrade service quality are utilized in their corporate plan.  (FY1993 Overseas Survey) <M/P> CPO used this M/P for following projects. 1. Rehabilitation Project (1994-2000). 2. Analog Switching Replacement Project (1994-2000) 3. Public Phone Service Expansion Project (1994-95) 4. Network Reliability Improvement Project (1995-97) Additionally, CPO is to conduct following studies. Regional Development Plan for Telecommunication Network in Provincial Area (1993-94) Revision Study on a Regional Development Plan for Telecommunication Networks in the Bangkok Metropolitan Area (1994-95) <F/S> On the suggestion of this study report, the request for an approval of implementation of 26 projects, suggested in the report, was submitted to the Management Committee of TOT by Corporate Planning Office of TOT and it is now under consideration in the committee.  (FY1993 Overseas Survey) Although CPO submitted four project proposals to TOT Managing Committee, the Committee has not approved them yet. Financial sources are under consideration.  (FY1994 Domestic Survey) No additional information.																												
4.REFERENCE NO.		US\$1=25 Baht.	F/S 1) 7,926,560	487,680	668,960																													
5.TYPE OF STUDY	M/P+F/S		2) 1,156,640																															
6.COUNTERPART AGENCY	Telephone Organization of Thailand (TOT), Corporate Planning Office	3) 3)																																
7.OBJECTIVES OF STUDY	To formulate a long term development plan for the period from FY 1993 to FY 2007 in the Bangkok metropolitan area in Thailand	3.CONTENTS OF MAJOR PROJECT(S)	<M/P> 1. To meet the telephone demand at the end of FY 1997 in the Bangkok Metropolitan Area and at the end of FY 2002 in the surrounding area. The outline of the telecommunication expansion plan is calculated. 2. The outline of the rehabilitation plan for upgrade of the telecommunication service quality is as follows; (1997-2007 total) Switching system: 356,000 lines capacity, Transmission system: 87,000 circuits, Local cables: 431,000 pairs <F/S> "Improvement of fault ratio" and "Improvement of call completion ratio" were selected for the study objectives to improve telecommunications service quality. The major projects proposed are as follows: 1) Rehabilitation of local cables - replacement of drop wires with cables and renewal of drop wires - replacement of local cables 2) Check and consulting for customer premises 3) Replacement of public telephone sets 4) Changing P.D. timing 5) Promotion of Multi-hunting system 6) Increasing number of circuits (switching, transmission) 7) Dial consulting activity 8) Expansion of subscriber lines																															
8.DATE OF S/W	Oct.1990	4.FEASIBILITY AND ITS ASSUMPTIONS						Feasibility: Yes/No	EIRR1) FIRR1) 11.28	EIRR2) FIRR2)																								
9.CONSULTANT(S)	NTP International Corporation	Imp. Period:							EIRR3) FIRR3)																									
10.STUDY TEAM	No. of Members 9 Period Jul.1991-Oct.1992 (16 months)	Conditions and Development Impacts:						<M/P, F/S>Conditions: 1) Telephone demand is forecasted by socio-economic model on the basis of householded monthly income distribution, number of employees, etc. and logistic model. <table style="margin-left: 20px;"> <tr> <td>Population (1,000)</td> <td>1992</td> <td>2007</td> </tr> <tr> <td></td> <td>10,084</td> <td>12,963</td> </tr> <tr> <td>Telephone demand (1,000)</td> <td>2,285</td> <td>6,513</td> </tr> </table> Development Impacts: 1) Reduction of fault ratio (Number of faults/100 subscribers per month) <table style="margin-left: 20px;"> <tr> <td></td> <td>1991</td> <td>1997</td> </tr> <tr> <td>Bangkok Metropolitan Area</td> <td>4.4</td> <td>2.5</td> </tr> <tr> <td>Surrounding Area</td> <td>4.9</td> <td>3.0</td> </tr> </table> 2) Improvement of call completion ratio <table style="margin-left: 20px;"> <tr> <td>Study Area (%)</td> <td>1992</td> <td>1997</td> </tr> <tr> <td></td> <td>23.5</td> <td>55</td> </tr> </table> 3) Contribution to economic development by providing the reliable telecommunications services			Population (1,000)	1992	2007		10,084	12,963	Telephone demand (1,000)	2,285	6,513		1991	1997	Bangkok Metropolitan Area	4.4	2.5	Surrounding Area	4.9	3.0	Study Area (%)	1992	1997		23.5	55
Population (1,000)	1992	2007																																
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Bangkok Metropolitan Area	4.4	2.5																																
Surrounding Area	4.9	3.0																																
Study Area (%)	1992	1997																																
	23.5	55																																
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER	Technical transfer in Japan was conducted to TOT counterparts, one member JICA sponsored and 8 members TOT sponsored, about the process of formulating the improvement plan on the service quality by "On the Job																															
12.EXPENDITURE	Total 198,311 (*000) Contracted 186,419																																	
		2.MAJOR REASONS FOR PRESENT STATUS				Corporate Planning Office of TOT has recognized that it is indispensable for the improvement of telecommunications service quality in Thailand to implement 26 projects suggested in the report.																												
		3.PRINCIPAL SOURCE OF INFORMATION							①, ③																									



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

Compiled Mar.1994  
Revised Mar.1995

ASE THA/S 215B/92

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Thailand	1.SITE OR AREA	Hua-Hin / Cha-Am beach area and its surroundings, including Petchaburi and Prachuap Khiri Khan.		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	The Tourism Development of the Hoa-Hin/Cha-Am Beach Area	2.PROJECT COST	M/P 1) 2) F/S 1) 2) 3)	Local Cost Foreign Cost 843,000 43,123 650,000		
3.SECTOR	Tourism/(Tourism in)General	3.CONTENTS OF MAJOR PROJECT(S)			(Description) <M/P> 1. & 7. are under processing for implementation. 2. - 6. are requested to the relating implementation agencies. 2. 3. and 4. will be taken care by DOH. 5. & 6. will be carried out by PWA.  Further study by Japanese Government is necessary for 8. However, implementation agencies are not clarified.  <F/S> 1. Respect of budget amounting 700 million Bahts has been submitted to the cabinet. 2. DOH is now under study for D/D. 3. PWA called local consultants for D/D. D/D will be started soon.  (FY1993 Overseas Survey) TAT requested OECF loan for the Center (PhaseII). However, it was not selected. TAT will implement the center under cooperation between the government and private sector.  (FY1994 Domestic Survey) No additional information.	
4.REFERENCE NO.		<M/P>1. Cultural and recreational center in Cha-am 2. Road development program in Peet Kasem 0.67 km 2.50 km				
5.TYPE OF STUDY	M/P+F/S	3. Improvement of petchaburi coastal road 4. Improvement of circulator roads in Petchabari 5. Municipal sewerage system development in Cha-am 6. Water supply development is Cha-am and Hua hin. 7. Tourism promotion program 8. Environmental management program				
6.COUNTERPART AGENCY	The Tourism Authority of Thailand	<F/S>1. Cultural and Recreational, Center in Cha-am To build a cultura and recreational center on a 327 Rai Government other site in Takard pilee in Northern Cha-am 2. Improvement of Circulation Road in Pe - 20.5km of the Road unber Rid oo - 14.0km under Oa 3. Water Supply development in Cha-am and to complete the water distribution system with includes rooting and replacement of distribution pipes, construction of distributor facilities, etc.				
7.OBJECTIVES OF STUDY	1. To prepare a Tourism Development Master Plan for the Study Area with target year 2006. 2. To carry out feasibility studies on priority projects. 3. To propose a set of institutional arrangements.	Imp. Period:				
8.DATE OF S/W	Apr.1990	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) FIRR1) 4.90 EIRR2) FIRR2) 0.30 EIRR3) FIRR3)		
9.CONSULTANT(S)	Pacific Consultants International Yachiyo Engineering Co., Ltd.	10.STUDY TEAM				
No.of Members 13 Period Jan.1992-Jan.1993 (12 months)		Conditions and Development Impacts: <M/P> <Development Impacts> 1.To diversify tourist attractions and make it more attractive for the development of the regional economy. 2.Expansion and improvement of the existing infrastrural network. 3.To fill up model to upper middle class accomodation and more adequate torists promotion. <P/S> <Conitions> FIRR 1) is of Public 2) is of Private <Development Impact> 1.To diversify tourist attractions and make it wore attractive for the development of the regional economy. 2.TExpansion and improvement of the existing infrastructural network				
Total M/M Japan Field 47.20 22.50 24.70		5.TECHNICAL TRANSFER				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY - Tourists Interview Studies - Analysis of Water Quality - Study of its Community and Economics		Through the execution of the study and the planning, technical trouble was considered to the counterpart personnel.				
12.EXPENDITURE Total 164,714 (¥000) Contracted 156,966		3.PRINCIPAL SOURCE OF INFORMATION ①, ②				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		2.MAJOR REASONS FOR PRESENT STATUS 1) Ministry of Finance agreed on the implenctation of the project by using OECF lone. Approval by OECF will be required.				

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

ASE THA/A 206B/92

Compiled Mar.1994  
Revised Mar.1995

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 checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY Lam Dom Yai Basin Irrigation Project		Ubon Ratchathani Provice and Si Sa Ket Province(717sq. Km)						
3.SECTOR Agriculture/Irrigation, Drainage & Reclamation		2.PROJECT COST (US\$1,000)		Local Cost	Foreign Cost	(Description) Through final report was submitted in December 1992, there has been no action taken by Thai Government to date for the implementation of the proposed project. As fer the information by the officials concerned, the executing agency intends to implement the project for possible poverty alleviation in the North-East Region of Thailand as soon as possible, but the priority given by the Central Government is rather low.  (FY1993 Overseas Survey) Related Thai laws require Environmental Impact Assessment on the project. RID requested for FY 1995 budget to conduct the EIA. IF the budget is approved, RID will conduct F/S including EIA.  (FY1994 Domestic Survey) Terms of Reference for EIA study are making tosecure the budget of EIA, and will becompleted by the end of 1994.		
4.REFERENCE NO.		M/P 1) 2) 3)		193,800	83,400			110,400
5.TYPE OF STUDY		F/S 1) 2) 3)						
6.COUNTERPART AGENCY Royal irrigation Department, MDAC		3.CONTENTES OF MAJOR PROJECT(S)						
7.OBJECTIVES OF STUDY - feasibilty study for the selected area with high priority		<M/P> The irrigable areas form 29 new water resources were selected in the river basin, and the Lam Dom Yai Project was the one with highest priority.  <F/S> 1. Water Resource Development - construction for D-28 Dam (Storage capacity=117.1MCH) 2. Irrigation and drainage system Development - construction for irrigation and drainage system (benefit area=4,000ha). 3. Irrigated Agriculture - establishment for land use plan, planted area and farming practices 4. Improvement for Agricultural support policy						
8.DATE OF S/W		Imp. Period: .1993-.1999						
9.CONULTANT(S) Sanyu Consultants Inc. Naigai Engineering Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) 9.00 EIRR2) EIRR3)			FIRR1) FIRR2) FIRR3)
10.STUDY TEAM No.of Members 10 Period Oct.1991-Sep.1992 (12 months)		Conditions and Development Impacts: <M/P> Selection of Priority Development Project - B/C ratio - scale of irregable area - reservoir area condition - income level - soil suitability - civil work condition Project Benefits - water resources development - land resources development - irrigation development - Rainfed Agricultural development  <F/S> Conditions - watre resources development for rice crop in rainy season - improvement for farming practices in rainfed agricultural area - land use plan for forest presavation Project Benefits - crop benefits - fishery benefits						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER						
12.EXPENDITURE		Technical transfer was carried through the study						
Total 223,873 (¥'000)								
Contracted 220,086								
						2.MAJOR REASONS FOR PRESENT STATUS		
						1. higher project cost 2. compensation for submerged area 3. financial difficulties		
						3.PRINCIPAL SOURCE OF INFORMATION		
						①, ②		

和名 ラム・ドム・ヤイ流域灌漑計画

[M/P+F/S]

# PROJECT SUMMARY (F/S)

ASE THA/S 324/92

Compiled Mar.1994  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	Thailand	1.SITE OR AREA	32 Km north of the CBD of Bangkok			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Implementing <input checked="" type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled						
2.NAME OF STUDY Greater Bangkok Truck Terminal		2.PROJECT COST		Total Cost	Local Cost	(Description) DLT established "Truck Terminal construction Project Committee" in its department, chaired by Deputy General Manager Mr. Preecha. Planning Division plays a role of secretarial body. (Established in Oct. 1992) Purpose is to determine a final policy of truck terminal construction and to prepare construction program and schedule. (FY1993 Overseas Survey) LTD is preparing EIA study on the project. The duration of EIA study will be 4 months. LTD has already drafted TOR for D/D and budgeted it. The D/D, which will cost 15 million baht, will be conducted soon after the EIA study. LTD is also in the process of land acquisition for 3 truck terminal sites. The site, 120 ha, for one terminal will be obtained within 1994. At present, land acquisition is the most important issue. (FY1994 Domestic Survey) The Thai Government has decided to construct truck terminal. It is planned to start the construction next year and scheduled to complete within three year. It is to be implemented by private fund.							
3.SECTOR Transportation/Land Transportation				1) 16,340	16,340								
4.REFERENCE NO.				2) 7,696	7,696								
5.TYPE OF STUDY F/S		3.CONTENTS OF MAJOR PROJECT(S)											
6.COUNTERPART AGENCY Mini. of Transport and Communications. Department of Land Transport				- To construct a public terminal with 500 berth - Construction stage is divided into 2 stages: 1. First Stage : 350 berth (144 Rai) 1. Second Stage : 150 berth (63 Rai) - Terminal facilities includes platform, apron, parking administration building, service station, green belt and road.									
7.OBJECTIVES OF STUDY To construct a public truck terminal in order to alleviate traffic congestion and to modernize physical distribution system in Bangkok		8.DATE OF S/W Apr.1991		Imp. Period: .1992-.1995    .1998-.2000									
9.CONSULTANT(S) Pacific Consultants International		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) 15.60 EIRR2) 16.67 EIRR3)	FIRR1) 14.67 FIRR2) 18.11 FIRR3)							
10.STUDY TEAM				Conditions and Development Impacts: 1. Demand for truck terminal is estimated based on 24 hours CBD traffic control for large truck. 2. The project can generate (1) traffic congestion relieving effects and (2) modernization effect of physical distribution. Both are large to prove the project's feasibility in terms of economic analysis. 3. The financial feasibility is proved with the government support on land, infrastructure, terminal facilities and capital.									
No.of Members    7 Period Dec.1991-Sep.1992 (10 months)  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">30.70</td> <td style="text-align: center;">12.50</td> <td style="text-align: center;">18.20</td> </tr> </table>		Total M/M	Japan	Field	30.70	12.50	18.20	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Road-side Heavy-Truck Driver Interview Survey Interview Survey for Freight-related Company		5.technical transfer		2.MAJOR REASONS FOR PRESENT STATUS	
Total M/M	Japan	Field											
30.70	12.50	18.20											
12.EXPENDITURE				1. Staff from Planning Div., DLT (1 person, March 1993, 23 days). 2. Deputy Director and Chief of Planning Div., DLT (2 persons, August 1992, 11 days)		3.PRINCIPAL SOURCE OF INFORMATION ①							
<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">108,861 (¥000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">112,339</td> </tr> </table>		Total	108,861 (¥000)	Contracted	112,339								
Total	108,861 (¥000)												
Contracted	112,339												

和名 首都圏トラック・ターミナル基本整備計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

ASE THA/A 316/92

Compiled Mar.1994  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT						
1. COUNTRY	Thailand	1. SITE OR AREA	Nong Yai area: 2,260 ha, 10,800 population The Taphao basin: 35,700 ha, 66,000 population			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled					
2. NAME OF STUDY	Integrated Agriculture and Water Resources Development Project of the Menam Chumphon Basin	2. PROJECT COST (US\$1,000)		Total Cost	Local Cost			Foreign Cost				
3. SECTOR	Agriculture/General	3. CONTENTS OF MAJOR PROJECT(S)	the selected priority projects are composed of:  (1) Nong Yai Agriculture Development - Rehabilitation of Nong Yai swamp (Storage: 4.5 MCM) - Irrigation (1,200 ha) - Livestock development (Beef cattle, pig) - Swamp fisheries (543 surface water area)  (2) Drainage Improvement of The Taphao River System - Improvement of The Taphao river (34.3 Km, 350-880 m <sup>3</sup> /s) - Improvement of tributaries (48.5 Km, 50-800 m <sup>3</sup> /s) - Construction of floodways (10.0Km, 270-540m <sup>3</sup> /s) - Improvement of canal (4.8Km, 260m <sup>3</sup> /s)			(Description) 1. Drainage Improvement of Tha Taphao River System: - Construction work of Hua Wang- Phanang Tuk canal is in progress. - Improvement work of Sam Kaeo canal is in progress.  2. Nong Yai Agriculture Development: - No progress.  3. The feasibility study of the multipurpose dams proposed in this study is being implemented by the Thai Government at local budget.  (FY1993 Overseas Survey) No additional information.  (FY1994 Domestic Survey) The rehabilitation works of two river channels of the Taphao River are on-going. About 3.5km of them has been completed and the remaining ones will be completed in 1995. Improvement of the Taphao River and rehabilitation works for Nong Yai Swamp have not yet been started. The F/S and EIA for two multipurpose dams of the Sae and Rap Ro are implemented by a local consulting firm using the Government budget and will be completed in 1995.						
4. REFERENCE NO.		5. TYPE OF STUDY	F/S			(FY1993 Overseas Survey) No additional information.  (FY1994 Domestic Survey) The rehabilitation works of two river channels of the Taphao River are on-going. About 3.5km of them has been completed and the remaining ones will be completed in 1995. Improvement of the Taphao River and rehabilitation works for Nong Yai Swamp have not yet been started. The F/S and EIA for two multipurpose dams of the Sae and Rap Ro are implemented by a local consulting firm using the Government budget and will be completed in 1995.						
6. COUNTERPART AGENCY	Royal Irrigation Department, Ministry of Agriculture and Cooperatives	7. OBJECTIVES OF STUDY	(1) To formulate an integrated agriculture and water resources development plan of the Menam Chumphon basin, and (2) To conduct a feasibility study on selected priority projects									
8. DATE OF S/W	Mar. 1991	8. DATE OF S/W	Imp. Period: 1992-1996			2. MAJOR REASONS FOR PRESENT STATUS  1. Implementation of two canal project was approved in 1989, just after Typhoon Gay, as one of the urgent countermeasures.  2. Priority is not yet given to Nong Yai Agriculture Development project that is only one of the medium scale projects.						
9. CONSULTANT(S)	Sanyu Consultants Inc. Kokusai Kougyo Co., Ltd.	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 17.10 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)							
10. STUDY TEAM	No. of Members 8 Period Oct. 1991-Mar. 1992 (6 months) May. 1992-Dec. 1992 <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">52.80</td> <td style="text-align: center;">21.10</td> <td style="text-align: center;">31.70</td> </tr> </table>	Total M/M	Japan	Field	52.80	21.10	31.70	Conditions and Development Impacts: [Conditions] - Drainage improvement should be implemented prior to the implementation of Nong Yai agriculture development project - The project should provide for extension services, institutional credit, marketing, etc..  [Development Impact] - Reduction of flood damages and upgrading of land use in the river basin through mitigation of floods. - Increase in crop yield and crop intensity through introduction of irrigation. - Provision of water supply for daily use for farmers.			3. PRINCIPAL SOURCE OF INFORMATION ①, ②	
Total M/M	Japan	Field										
52.80	21.10	31.70										
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER	Technical transfer was carried through the surveys and regular conferences.									
12. EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">197,362 (¥'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">192,795</td> </tr> </table>	Total	197,362 (¥'000)	Contracted	192,795							
Total	197,362 (¥'000)											
Contracted	192,795											

和名 チュンボン地区農業総合開発計画

[F/S,D/D]

# PROJECT SUMMARY (M/P)

Compiled Mar.1995  
Revised

ASE THA/S 108/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1. COUNTRY	Thailand	1. SITE OR AREA	Seven provinces in the Lower Northeast and two provinces in the Upper East Regions (Land Area: 89,000km <sup>2</sup> , population:9,900 thousand)		1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2. NAME OF STUDY	Regional Development Plan for the Lower Northeast and the Upper East Regions in the Kingdom of Thailand	2. PROJECT COST	(US\$1,000)	Total Cost    Local Cost    Foreign Cost	(Description)  1. Final Report was submitted to JICA in Sep.1993. Then, it was transmitted to Government of Thailand in the same year after the examination and approval of JICA. 2. Final Report was approved by NESDB as an official plan of the Study Area of the proposed priority projects, regional artery establishment (one of the highly priority projects) was submitted to the Diet before the submission of Final Report. 3. Through Thai Government Mission to Vietnam in 1993, Secretary of NESDB conveyed a plan of NESDB that linkage between Eastern Coastal Area and Vietnam be made and then be developed mutually. 4. Based on the results of ADB's survey on the sites of Second Mekong bridge in 1992, the location of Second Mekong bridge was finally decided to be between Mukdahan and Sabanaket. In addition, the route going to Danan via Laos was approved as one of priority transportation projects.							
3. SECTOR	Development Plan/Integrated Regional Development Plan		1)									
4. REFERENCE NO.		3. CONTENTS OF MAJOR PROJECT(S)	2)									
5. TYPE OF STUDY	M/P	Regional/inter-regional projects 1. Regional artery establishment 2. Railway improvement 3. Route No.24 improvement 4. Second Mekong bridge 5. Local air services network development 6. Small pumping reservoirs development 7. Phanom Dong Rek water resources development 8. Lam Thakong pumped storage power generation 9. Pak Man hydropower										
6. COUNTERPART AGENCY	National Economic and Social Development Board (NESDB)	Area Development Program 1. Greater Nakhon Ratchasima Industrial Center Development, 2. Ubon Ratchathani Agro-industrial Forefront Development, 3. Buri Ram-Surin Integrated Central Area Development  Other projects 1. Nakhon Nayok/Pachin Buri multipurpose development, 2. Yasothon water network development, 3. Yasothon aquaculture center, 4. Groundwater exploration, 5. Maai Bang Sai multipurpose development, 6. Mukdahan IUD/border trade center, 7. Avanyapvathet IUD/border trade center										
7. OBJECTIVES OF STUDY	In order to accelerate economic growth, the following is to be expected; 1. To settle on an integrated regional development plan, 2. To propose institutional scheme to implement plans.	4. CONDITIONS AND DEVELOPMENT IMPACTS										
8. DATE OF S/W	. 0	Development Strategies 1. Improvement of physical structure of the study area by transportation and water resources infrastructure, 2. Improvement of urban function to support economic activities in order to make use of interchange between Indochina countries and Eastern Coastal Area, 3. Implementation of rationalization of land use and improvement of land ownership.  Development Impacts 1. Economy: industrialization to make use of domestic resources and market, and diversification of agriculture products 2. Administration: development management by strengthening local governments 3. Environment: development within the limitation of water resources and soil condition 4. Social: small number of incoming population 5. Special development: formation of network of medium size cities 6. Growth rates: annual growth rate of 9% at average										
9. CONSULTANT(S)	Nippon Koei Co., Ltd.	10. STUDY TEAM										
		No. of Members    16  Period  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total M/M</td> <td style="text-align: center;">Japan</td> <td style="text-align: center;">Field</td> </tr> <tr> <td style="text-align: center;">93.30</td> <td style="text-align: center;">3.16</td> <td style="text-align: center;">90.14</td> </tr> </table>					Total M/M	Japan	Field	93.30	3.16	90.14
Total M/M	Japan	Field										
93.30	3.16	90.14										
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		11. MAJOR REASONS FOR PRESENT STATUS										
Socio-economic survey, Tourism survey, Land use map preparation, Financial institution survey, Border trade survey, Distribution survey		1. This project was undertaken timely in the proper area with the background of economic liberation of Indochina Countries. 2. In terms of implementation of plans, action-oriented plans were requested by Thailand Government. JICA Study Team then responded to it.										
12. EXPENDITURE		12. TECHNICAL TRANSFER										
Total                    284,717 (¥'000) Contracted		Seminar held in June, 1993										
		13. PRINCIPAL SOURCE OF INFORMATION										
		①										

和名 東北タイ南部・東部タイ北部地域総合開発計画調査

{M/P, Basic Study, Other}

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

Compiled Mar.1995  
Revised

ASE THA/S 209/93

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 checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY		Lower Cha Phraya River Basin					
Sewerage Development Project for Lower Cha Phraya River Basin		2.PROJECT COST		M/P 1)	Local Cost	(Description) Concerning the implimentation of Two Municipalities(Rong Sit, Bang Ena Thog) Project are being cordinated. It's going to be carried out by thier finance. Concerning oter six municipalities Projects have also high priorities, so PWD, and Local Government are preparing futher study.	
		(US\$1,000)		2)	Cost		
		Million Bhat		F/S 1)	Cost		
3.SECTOR		3.CONTENTES OF MAJOR PROJECT(S)					
Public Utilities/Sewerage		Water Pollution Control Plan Sewerage M/P for the Eight Municipalities Preliminary Engineer Design of Sewerage System for two Municipalities					
4.REFERENCE NO.							
5.TYPE OF STUDY		M/P+F/S					
6.COUNTERPART AGENCY							
PWD							
7.OBJECTIVES OF STUDY							
to adopt the Water Quality of Chao Phraya River to National Standerd							
8.DATE OF S/W		.0					
9.CONSULTANT(S)		Imp. Period: .1994-.1997    .1994-.1997					
Nippon Jogesuido Sekkei Co., Ltd. Pacific Consultants International		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) 31.00 EIRR2) 48.10 EIRR3)	FIRR1) 5.50 FIRR2) 6.70 FIRR3)	
10.STUDY TEAM		Conditions and Development Impacts:					
No.of Members 11 Period Mar.1992~Jan.1994 (23 months)		Improvements of Environmental Condition Prevention from Water Pollution in Chao Phraya River Reduction of Urban Population Density Reduction of the Cost of Water supply					
Total M/M                  Japan                  Field 88.27                      34.00                  54.27						2.MAJOR REASONS FOR PRESENT STATUS	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER					
Soil Survey, Water Quality Survey, Topographical Map.		How to establish the sewerage development master plan.				3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE						①	
Total                      330,350 (¥'000)							
Contracted              352,213							

和名 チャオピア川下流域下水道整備計画調査

(M/P+F/S)

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

Compiled Mar.1995  
Revised

ASE THA/S 208/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT			
1.COUNTRY	Thailand	1.SITE OR AREA	Phuket International Airport Area and the Surrounding areas.		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input type="checkbox"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled		
2.NAME OF STUDY	Phuket International Airport Development Plan	2.PROJECT COST	M/P 1) Local Cost 2) Foreign Cost (US\$1,000) F/S 1) 497 176 (Million Bt) 2) 3) 321	(Description) Following works have been implemented by AAT along the Short-Term Development Plan established in the Study. 1. Runway Overlay (construction in 1993/94) Forstrengthening of the pavement, average overlay thickness is set at 12.7cm in the Study. Actual thickness implemented by AAT, however, is 8cm in average for surfacing only. Therefore, additional overlay is required. 2. Expansion of Passenger Terminal Building Concept design started in 1993 and construction work is scheduled to be completed in 1995. Expansion area : 5,400 sq.m 3. Construction waste Water Treatment plant (constructed in 1993) 4. Expansion of carpark (Design and construction in 1993/94) Expanded capacity : 200/sts. In addition, expansion of the Cargo terminal building has been implemented in 1993 and 1994 which is planned to be implemented after 2000 in the Long-Term Development Plan of the Study.				
3.SECTOR	Transportation/Air Transportaion & Airport	3.CONTENTES OF MAJOR PROJECT(S)						
4.REFERENCE NO.		The scope of the short-term development plan at the exisiting airport for the target year 2000 are summarized as shown below. (1)Runway : Pavement overlay for structure strengthening (Length:2280m, Average overlay thickness 12.7cm) (2)Passenger Terminal Building : Expansion(6,980m2) (3)Road and Car park : Expansion of parking Slots(420slots) (4)Utilities : Installation of power generator, incinerator and telephone exchanger, and construction of deep water wells. (5)Otters : Construction of additional security fence(L=800m)						
5.TYPE OF STUDY	M/P+F/S							
6.COUNTERPART AGENCY	Airports Authority of Thailand (AAT)							
7.OBJECTIVES OF STUDY	To formulate a Master Plan for long-term development of Phuket International Airport for the target year 2010 and to study the feasibility of a short-term development plan for the exisiting airport to be formulated within the formework of the Master Plan.							
8.DATE OF S/W	Jan.1992							
9.CONSULTANT(S)	Pacific Consultants International Pasco International Inc.							
Imp. Period:								
4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)							
10.STUDY TEAM	No.of Members 9 Period Aug.1992-Sep.1993(14 months)  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Total M/M</td> <td style="width: 33%;">Japan</td> <td style="width: 33%;">Field</td> </tr> <tr> <td>44.80</td> <td>24.13</td> <td>20.67</td> </tr> </table>				Total M/M			Japan
Total M/M	Japan	Field						
44.80	24.13	20.67						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topographic Survey, Soil Investigation, Environmental Survey.	5.TECHNICAL TRANSFER	workshop, counterpart training, OJT		2.MAJOR REASONS FOR PRESENT STATUS	AAT is executing the improvement works of the airport in accordance with increase of passenger/cargo demand.		
12.EXPENDITURE	Total 188,924 (¥'000) Contracted 177,065			3.PRINCIPAL SOURCE OF INFORMATION	①			

和名 プーケット国際空港整備計画調査

[M/P+F/S]

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

Compiled Mar.1995  
Revised

ASE THA/S 207/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT			
1.COUNTRY	Thailand	1.SITE OR AREA	Bangkok Urban Metropolitan Area			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled	
2.NAME OF STUDY	Application Scheme of Land Readjustment (L/R) National Urban Development Thrust	2.PROJECT COST	M/P 1) (US\$1,000) (1000Bt)	Local Cost 2) 3)	Foreign Cost 673,480 171,050 64,470			
3.SECTOR	Social Infrastructures/Urban Planning & Land Development	3.CONTENTS OF MAJOR PROJECT(S)			(Description) 1. Under preparation of the National Cabinet Council approval on Land Readjustment law. 2. Under preparation of implementation to designation plot (including relocation/removal). 3. Under support this project with a dispatch of JICA's specialists.			
4.REFERENCE NO.		In Thailand especially in/around Bangkok, urbanization triggered by the rapid economic and industrial development has been expanded faster than expected, resulting in the serious urban problems, typically worst traffic congestion. To solve the urban problems, development of the following area is required urgently.  Travelling Area : Bangkok Huai Khwang 85ha District Builder : Development of Town and Country Planning or Bangkok Municipality Project cost : 909 million Bt Period of work : 5 years (On condition that the preparation necessary for the project be completed within one year) Reduction Ratio : 29.5-30.7% Exchange Rate : 1Bt=5yen						
5.TYPE OF STUDY	M/P+F/S							
6.COUNTERPART AGENCY	Department of Town and Country Planning Ministry of Interior							
7.OBJECTIVES OF STUDY	To formulate a L/R plan for the first implementation project and propose L/R System in Thailand							
8.DATE OF S/W	Jan.1991							
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd.							
Imp. Period:								
4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes						EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)
10.STUDY TEAM	No. of Members 13 Period Jan.1991-Jun.1993 (30 months)  Total M/M          Japan          Field 80.17                  14.54                  65.63						Conditions and Development Impacts: 1) The urban development project in the project area is supposed at the four levels of improvement as follows: Traditional urbanization (Level 1) Disorderly built-up area with poor public services Traditional urban development (Level 2) Limited built-up with sufficient public services Urban area development through L/R (Level 3) Orderly built-up area with sufficient public service (Level 4) Efficient/effective urban area for new CBD of Bangkok 2) Expected socio-economic effects in urban management a) Public service management b) Urban industrial development and management c) Financial effect on government revenue	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Site survey and Measurement	5. TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS			
12.EXPENDITURE	Total 308,863 (¥000) Contracted 284,830	1.L/R Legal system 2.L/R Implementation Plan 3.Replotting System and Design/Plan						
					3.PRINCIPAL SOURCE OF INFORMATION			
					①			

和名 区画整理事業適用調査

(M/P+F/S)



# PROJECT SUMMARY (F/S)

Compiled Mar. 1995  
Revised

ASE THA/A 310/93

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 checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2. NAME OF STUDY		Peat/acid sulfate soil areas in the Narathiwat province					
Agricultural Development for Peat, Acid Sulfate Soil Areas in Narathiwat Province		2. PROJECT COST (US\$1,000)		Total Cost	Local Cost	Foreign Cost	
3. SECTOR		1)					
Agriculture/General		2)					
4. REFERENCE NO.		3)					
5. TYPE OF STUDY		3. CONTENTS OF MAJOR PROJECT(S)				(Description) Aiming at the implementation of the project at the earliest, DLD is trying to secure the necessary budget. In view of the size of the project, DLD considers that the required budget is within the range of DLD authority. Funding is brought not only from domestic but from foreign sources.	
F/S		Land Improvement 997ha Drainage Canal(New) 9,900m Drainage Canal(Reform) 11,910m Embankment 17,800m Fish Nursery Pond 21ponds					
6. COUNTERPART AGENCY							
The Department of Land Development (DLD) Ministry of Agriculture and Cooperatives							
7. OBJECTIVES OF STUDY							
Establishment of Agricultural Development Method in peat/acid sulfate soil area.							
8. DATE OF S/W		Imp. Period:					
Nov. 1991		4. FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) 5.30		FIRR1)
Sanyu Consultants Inc. Taiyo Consultants Co., Ltd.					EIRR2)		FIRR2)
					EIRR3)		FIRR3)
10. STUDY TEAM		Conditions and Development Impacts: -preservation of Natural Environment -allocation of farm plot for landless farmers -demonstration of farming in peat/acid sulfate soil areas					
No. of Members 10							
Period Feb. 1992-Jan. 1994 (23 months)							
Total M/M		Japan		Field			
61.80		26.37		35.43			
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER				2. MAJOR REASONS FOR PRESENT STATUS	
Experimental plot for leaching test Topo-map Environmental Impact Survey		Proper techniques have been transferred through conducting the leaching test.					
12. EXPENDITURE						3. PRINCIPAL SOURCE OF INFORMATION	
Total		252,048 (¥'000)				①, ⑥	
Contracted		245,079					

和名 南部タイ泥炭土壌地域農業開発計画

[F/S,D/D]

# PROJECT SUMMARY (D/D)

ASE THA/A 402/93

Compiled Mar.1995  
Revised

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 in Chachoengsao Province			1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Bang Pakong Diversion Dam Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost		
3.SECTOR	Agriculture/General		(US\$1,000)	1) 100,360	32,752	(Description) -The Thai government intended to implement the construction works of the above project from October 1994.	
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)	2)				
5.TYPE OF STUDY	D/D		3)				
6.COUNTERPART AGENCY	Royal Irrigation Department (RID)						
7.OBJECTIVES OF STUDY	Making a Detailed Design Study on Bang Pakong Diversion Dam Project						
8.DATE OF S/W	Apr.1992	Imp. Period:					
9.CONSULTANT(S)	Sanyu Consultants Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 11.00 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM	No.of Members 22 Period Sep.1992-Nov.1993 (15 months)	Conditions and Development Impacts: -As a result of the project implementation, an irrigation water for paddy fields and orchard of 42,500 ha can be supplied, and saline water intrusion in dry season will be excluded. -Owing to Water resources development-diversion dam construction : domestic water, industrial water and others will be able to be supplied and result in mitigate water shortage in urban areas.					
	Total M/M                  Japan                  Field 124.90                  94.40                  30.50						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12.EXPENDITURE		5.TECHNICAL TRANSFER					
	Total                  418,894 (¥'000)	Through the study, technology, such as planning method, dam designing technic, etc. was transferred to the counterparts.					
	Contracted                  408,229						
						2.MAJOR REASONS FOR PRESENT STATUS	
						This project is one of the very urgent and important projects for the Thai government.	
						3.PRINCIPAL SOURCE OF INFORMATION	
						①	

和名 バンパコン川防潮水門建設計画

(F/S,D/D)

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1995

MEA DZA/A 301/85

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																			
1.COUNTRY	Algeria	1.SITE OR AREA				1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input checked="" type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled																		
2.NAME OF STUDY Projet d'Aménagement agricole de la région périphérique du Lac Fetzara		Southwest 20km from Annaba City, Annaba Province																							
3.SECTOR Agriculture/General		2.PROJECT COST				(Description) There is no hope of funding the proposed project because of the deterioration of the Algerian economy.  (FY1994 Domestic Survey) No information.																			
4.REFERENCE NO.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">Total Cost</td> <td style="width: 10%; text-align: center;">Local Cost</td> <td style="width: 10%; text-align: center;">Foreign Cost</td> <td style="width: 10%;"></td> </tr> <tr> <td>(US\$1,000)</td> <td style="text-align: center;">1) 350,000</td> <td style="text-align: center;">220,000</td> <td style="text-align: center;">130,000</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">3)</td> <td></td> <td></td> <td></td> </tr> </table>							Total Cost	Local Cost	Foreign Cost		(US\$1,000)	1) 350,000	220,000	130,000			2)					3)	
	Total Cost	Local Cost	Foreign Cost																						
(US\$1,000)	1) 350,000	220,000	130,000																						
	2)																								
	3)																								
5.TYPE OF STUDY F/S		3.CONTENTS OF MAJOR PROJECT(S)																							
6.COUNTERPART AGENCY Ministry of Agriculture		<ul style="list-style-type: none"> <li>* Agricultural Infrastructure Improvement Plan Dam (1): 53m(H) x 480m(L) x 10m(Top width) x 7MCM(Effective storage) Pump station(2): 250mm x 46m(H) x 7.9m<sup>3</sup>/s(Q) x 110kw x 3 units 250mm x 65m(H) x 7.9m<sup>3</sup>/s(Q) x 190kw x 3 units Main Irrigation Pipeline : dia 200 - 300mm x 43km (density 39.2m/ha) Main Draining Canal : 154km (density 3.9m/ha) Field Facilities : Irrigation ditches -- 70 m/ha Drainage ditches -- 40-50 m/ha Farm roads -- 65 m/ha</li> <li>* Agricultural Development Plan Farmland development -- 10,600ha Livestock facilities, Green houses, Management facilities</li> <li>* Village Infrastructure Development Plan Housing, Domestic water supply, Sewerage facilities, Electricity, Hospitals, Schools, Post office, etc.</li> </ul>																							
7.OBJECTIVES OF STUDY Drafting of Agricultural Development Plan, Agricultural Infrastructure Improvement Plan and Village Infrastructure Development Plan, aiming at Agricultural Production Increase and Improvement of Living Environment for the Rural Population.		8.DATE OF S/W Mar.1983																							
9.CONSULTANT(S) Sanyu Consultants Inc.  Kyowa Engineering Consultants Co., Ltd.		Imp. Period: 1985-1992																							
10.STUDY TEAM No. of Members 13 Period Dec.1983-Mar.1985(17 months)		4.FEASIBILITY AND ITS ASSUMPTIONS				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.																			
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">Feasibility:</td> <td style="width: 10%; text-align: center;">EIRR1) 7.30</td> <td style="width: 10%; text-align: center;">FIRR1)</td> </tr> <tr> <td></td> <td>Yes/No</td> <td style="text-align: center;">EIRR2)</td> <td style="text-align: center;">FIRR2)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">EIRR3)</td> <td style="text-align: center;">FIRR3)</td> </tr> </table>			Feasibility:	EIRR1) 7.30	FIRR1)				Yes/No	EIRR2)	FIRR2)			EIRR3)	FIRR3)	Conditions and Development Impacts: [Conditions] (1) Inflation rate : 5.65% (2) Rate of exchange : 1US\$=4.88 DA (3) Residual value : Nil, as it is negligibly small in present value. (4) Analysis period : Up to 2034 (50 years from Project start) (5) Period until full benefit is gained : 10 years from Project start  [Development Impacts] (1) Increase of agricultural production and improvement of living standard of rural population through agricultural infrastructure improvement plan and agricultural development plan. (2) Improvement of living environment of rural population through village infrastructure development plan.									
	Feasibility:	EIRR1) 7.30	FIRR1)																						
	Yes/No	EIRR2)	FIRR2)																						
		EIRR3)	FIRR3)																						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION ①																			
12.EXPENDITURE		To counterparts assigned during the period of the survey																							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">Total</td> <td style="width: 10%; text-align: center;">315,059 (¥000)</td> </tr> <tr> <td></td> <td style="text-align: center;">Contracted</td> <td style="text-align: center;">280,430</td> </tr> </table>			Total	315,059 (¥000)		Contracted	280,430																		
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和名 フェツアラ湖周辺地域農業開発計画

(F/S,D/D)

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

Compiled Mar. 1994

Revised Mar. 1995

MEA DZA/S 201B/92

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT																										
1. COUNTRY	Algeria	1. SITE OR AREA			1. PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Partially Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Discontinued or Cancelled																									
2. NAME OF STUDY	Development of the Ports of Algiers, Oran and Annaba	The ports of Algiers, Oran and Annaba																													
3. SECTOR	Transportation/(Transportation in)General	2. PROJECT COST			(Description) Based on the results on this study shown in the Final Report handed over to Algeria side in March 1993, the government of Algeria is preparing to ask Yen loan to the government of Japan. On the other hand, the government of Japan sent a fact-finding mission to Algeria, in September, 1993. Taking account of missions report, for the moment, the government of Japan is looking round the situation of Algeria, especially in security matters, before entering the procedure of the finance.  (FY1994 Domestic Survey) No additional information.																										
4. REFERENCE NO.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">M/P 1)</td> <td style="width: 10%;">Local Cost</td> <td style="width: 10%;">Foreign Cost</td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>FS 1)</td> <td>251,064</td> <td>75,475</td> <td>175,589</td> </tr> <tr> <td></td> <td>2)</td> <td>51,982</td> <td>15,160</td> <td>36,822</td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>						M/P 1)	Local Cost	Foreign Cost			2)					FS 1)	251,064	75,475	175,589		2)	51,982	15,160	36,822		3)			
	M/P 1)	Local Cost	Foreign Cost																												
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5. TYPE OF STUDY	M/P+F/S	3. CONTENTS OF MAJOR PROJECT(S)																													
6. COUNTERPART AGENCY	Ministry of Transport, Algeria	* Cost 1) is of Algiers Port, 2) is of Oran Port. 1. Algiers Port (1) Master Plan i) Terminal-2: Container terminal with 42ha and a berth of 600m long and 13m deep ii) Cereal Terminal: Silos of 220,000 tons capacity, 4 unloaders of 400tons per hour each iii) Terminal 1: Installation of two container cranes  (2) Short-Term Plan i) Terminal 2: Container terminal with a berth of 300m long and 13m deep ii) Cereal Terminal: Silos of 100,000 tons capacity 2 unloaders of 400 tons per hour each iii) Terminal 1: Installation of 2 container cranes 2. Oran Port: Development of cereal and container terminals																													
7. OBJECTIVES OF STUDY	1. To formulate Master Plans for the ports of Algiers, Oran and Annaba for the period up to the year 2000. 2. To conduct feasibility, studies of the Short-Term Improvement Plans for the ports up to 1997.	Imp. Period:																													
8. DATE OF S/W	Sep. 1990	<table style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="3" style="width: 15%;">4. FEASIBILITY AND ITS ASSUMPTIONS</td> <td style="width: 15%;">Feasibility:</td> <td style="width: 10%;">EIRR1)</td> <td style="width: 10%;">12.51</td> <td style="width: 10%;">FIRR1)</td> <td style="width: 10%;">20.70</td> </tr> <tr> <td>Yes/No</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> </table>			4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	EIRR1)	12.51	FIRR1)	20.70	Yes/No	EIRR2)		FIRR2)			EIRR3)		FIRR3)												
4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	EIRR1)	12.51	FIRR1)		20.70																									
	Yes/No	EIRR2)		FIRR2)																											
		EIRR3)		FIRR3)																											
9. CONSULTANT(S)	Overseas Coastal Area Development Institute Nippon Koei Co., Ltd.	Conditions and Development Impacts: Development impacts of the projects. 1. Construction of container terminals Economic benefits are expected to be generated by the construction of the container terminals through the savings of costly land transport via JenJen Port. 2. Modernization of cereal terminal Economic benefits are expected to be generated by the installation of silos of sufficient capacity and in unloaders of sufficient productivity through the reduction of costly staying costs of cereal carriers.																													
10. STUDY TEAM	No. of Members 12 Period Aug. 1990-Mar. 1992 (20 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Total M/M</td> <td style="width: 30%;">Japan</td> <td style="width: 30%;">Field</td> </tr> <tr> <td>84.23</td> <td>43.23</td> <td>41.00</td> </tr> </table>	Total M/M	Japan	Field	84.23	43.23	41.00	5. TECHNICAL TRANSFER																							
Total M/M	Japan	Field																													
84.23	43.23	41.00																													
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	Soil material survey and sounding were subcontracted in Algeria	Technical transfer was conducted through face-to-face working with counterparts in Algeria and training in Japan.																													
12. EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">343,477 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>356,856</td> </tr> </table>	Total	343,477 (¥'000)	Contracted	356,856	2. MAJOR REASONS FOR PRESENT STATUS   3. PRINCIPAL SOURCE OF INFORMATION ①																									
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和名 主要港湾整備計画

[M/P+F/S]