

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1992

MEA OMN/A 301/82

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT			
1.COUNTRY	Oman	1.SITE OR AREA	Batinah District (180km north of the capital Muscat)			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" 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	Wadi Jizzi Agricultural Development Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost				
3.SECTOR	Agriculture/General		(US\$1,000)	1) 3,420	510	(Description) (FY1991 Overseas Survey) 1. Based on the proposals of the JICA study, the Government of Oman requested the Japanese Government for a detailed design study, which was duly undertaken by JICA from Jan. 1985 to June 1986. At the time of the detailed design, it was agreed that the construction would be financed by a loan of the Export Import Bank of Japan. However, the project implementation was delayed because of the Iran-Iraq War. 2. The project was included in the 3rd Five-Year Development Plan (1986-1990), and subsequently implemented by the Government with commercial financing. The construction of the dam was completed in Aug. 1989, and performed effectively against subsequent floods. Regarding the agricultural development components (development of new farm land, establishment of modern farms, training of farmers, etc.) proposed by the JICA study, the observation of groundwater is currently being carried out to facilitate its implementation.			
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)	2)	2,910	3)				
5.TYPE OF STUDY	F/S	Water Resource Development: Water resources development by detention dam and dispersion facilities.							
6.COUNTERPART AGENCY	Ministry of Agriculture and Fisheries	Agricultural Development: Construction of 100 ha of farm land and introduction of irrigated farming for fruit-wop (dates, limes), vegetable (cabbages watermelons eggplants) and fodder wops (alfalfa)							
7.OBJECTIVES OF STUDY	Feasibility study on the water resources facility for agricultural development	Farm Management Plan: Extension of farm land by settlement of 20 farm households							
8.DATE OF S/W	Nov.1980	Project facilities Plan: Detention Dam : Dam capacity 5.4 MCM Full water surface area 1.3 MCM Design flood discharge 1,890 m <sup>3</sup> /s							
9.CONSULTANT(S)	Sanyu Consultants Inc.	Dispersion Facilities: Crest length 112 m Dam height 2.0 m(max)							
10.STUDY TEAM	No. of Members 21 Period Mar.1981-Jan.1983 (24 months)	Imp. Period: Nov.1981-Dec.1982							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 13.60 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)			2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE	Total 416,436 (¥'000) Contracted 385,124	Conditions and Development Impacts: {Conditions} Water resources development, appropriate irrigation water supply, water management, and wop selection							
		{Development Impacts} - Increase of farm products by newly developed farm land - Reduction of flood damage - Prevention of salinization - Supply of drinking water and industrial use water is copper refined field.					3.PRINCIPAL SOURCE OF INFORMATION ①③		
		5.technical transfer	Transfer to governmental officials in Oman and Japan was made.						



# PROJECT SUMMARY (D/D)

MEA OMN/A 401/86

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT				
1.COUNTRY	Oman	1.SITE OR AREA	North Batina coast in the outskirts of Sohal city			1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" 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	Wadi Jizzi Agricultural Development Project	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost					
3.SECTOR	Agriculture/Irrigation, Drainage & Reclamation		(US\$1,000)	1) 27,870	27,870	(Description) (FY1991 Overseas Survey) 1. At the time of the detailed design, it was agreed that the construction would be financed by loan of the Export Import Bank of Japan. However, the loan fell through because of the Iran-Iraq War, and the project implementation was put off. 2. The project was included in the 3rd Five-Year Development Plan (1986-1990), and subsequently implemented by the Government with commercial financing. The construction of the dam was completed by a British engineering firm (Sir M. Macdonald & Partners Ltd.) in Aug. 1989, and performed effectively against subsequent floods.				
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)	(US\$1= 215yen in 1985)	2) 27,870	3) 27,870					
5.TYPE OF STUDY	D/D	1) Detention Dam	- Dam Height: 21 m - Dam Length: 820 m - Embankment Volume: 600 thousand m <sup>3</sup> - Dam Capacity: 5.4 MCM - Flood Discharge: Max 7,800 m <sup>3</sup> /sec - Outlet Discharge: Max 13 m <sup>3</sup> /sec  2) Diffusion Facilities 3) Groundwater Observation Well (5 points)							
6.COUNTERPART AGENCY	Ministry of Agriculture									
7.OBJECTIVES OF STUDY										
8.DATE OF S/W	Jul.1984	Imp. Period: Mar.1985-Mar.1986								
9.CONSULTANT(S)	Sanyu Consultants Inc. Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS						Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)
10.STUDY TEAM	No.of Members 13 Period Jan.1985-Jun.1986(18 months)	Conditions and Development Impacts:						The main function of the dam is to temporarily reserve flood and utilize groundwater by making flood penetrating in the lower stream.  The project area has only about 130 mm annual rainfall, and therefore, the water resources are quite precious. Available groundwater shall be lifted in the plain fields by wells and shall be utilized for drinking and irrigation water.		
Total M/M                  Japan                  Field		5.TECHNICAL TRANSFER 1) Local guidance for soil and rock experiment methods 2) Local guidance for electrical exploration methods								
39.86                  14.58                  25.28										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY										
12.EXPENDITURE										
Total                  287,929 (¥'000)										
Contracted                  265,710										
				2.MAJOR REASONS FOR PRESENT STATUS		In Oman, water resources are quite precious, and it promotes desalting of sea water. So, the project is urgent and well-suited.				
				3.PRINCIPAL SOURCE OF INFORMATION						
				①③						

和名ワジ・ジジ農業開発計画

(F/S,D/D)





# PROJECT SUMMARY (M/P)

Compiled Mar.1992  
Revised Mar.1995

MEA OMN/A 102/90

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Oman	1.SITE OR AREA	Whole country area (Area 300,000 sq.km, Population 1.5 mil, latitude 16 to 27 degrees North, longitude 53 to 60 degrees East)		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or in Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
2.NAME OF STUDY	A Master Plan for Agricultural Development	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) (FY1991 Overseas Survey) The alternative judged as optimal in the JICA study was adopted by the Government of Oman as the basic agricultural plan. Based on the hydrological findings, the location of dams is slightly changed, but most of the proposals of the study were adopted.  (FY1994 Domestic Survey) No additional information.
3.SECTOR	Agriculture/General		(US\$1,000)	1)	1,249,235	
4.REFERENCE NO.				2)	1,249,235	
5.TYPE OF STUDY	M/P	3.CONTENTS OF MAJOR PROJECT(S)				
6.COUNTERPART AGENCY	Ministry of Agriculture and Fisheries	1.Irrigation and Dam sector Improve of irrigation system and centrally-controlled water distribution system / Recharge dams / Sub-surface dams / Aflaj / Wells / Springs				
7.OBJECTIVES OF STUDY	To provide assistance in preparing a 10-year agricultural development plan for 2000	2.Agricultural research / extension sector Support for agricultural research stations / Establishment of new research units and laboratories / Forestry-improvement programme / Improvement and development of extension centers and facilities / Agricultural technology transfer to farmers				
8.DATE OF S/W	Jul.1989	3.Livestock sector Animal health and disease control / Small farm development support				
9.CONSULTANT(S)	Japan Agricultural Land Development Agency	4.Distribution sector Establishment of whole sale market / Fortification of FAMAP Integrated agricultural development project in Nejd				
10.STUDY TEAM	No.of Members 12 Period Oct.1989-Nov.1990(14 months)	4.CONDITIONS AND DEVELOPMENT IMPACTS				
	Total M/M	Japan	Field			
	64.00	14.00	50.00			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Data analysis of LANDSAT imagery	(1) Increase in food self-sufficiency 44%(1988)-55%(2000) (2) Promotion of agricultural productivity (3) Development and efficient use of water resources (4) Improvement of the agricultural structure (5) Stimulation of rural Socio-economy through promotion of agriculture (6) Human resources development (7) Achievement of 1 6.3% annual average growth rate in the GDP			2.MAJOR REASONS FOR PRESENT STATUS	
12.EXPENDITURE	Total 177,347 (¥000) Contracted 170,775	5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION	
		- Cooperative work to make reports - Acceptance of a trainee for training programme			①、②	

和名 農業開発基本計画

(M/P,Basic Study,Other)

# PROJECT SUMMARY (F/S)

Compiled Mar.1990  
Revised Mar.1995

MEA QAT/S 301/86

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Qatar	1.SITE OR AREA			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 checked="" type="checkbox"/> Implementing <input type="checkbox"/> Processing <input type="checkbox"/> Discontinued or Cancelled
2.NAME OF STUDY	Drainage Improvement Plan : Doha City	Musherib and Rayyan, Doha City				
3.SECTOR	Public Utilities/Sewerage	2.PROJECT COST			(Description) (FY1991 Overseas Survey) As of July 1989, the executing agencies of the project have been changed to the Ministry of Industry and Public Works and the Municipal Government of Doha City. At the time, the Ministry of Industry and Public Works already had its own drainage improvement plan, and the plan proposed by the JICA study was partly utilized for revising the guidelines for drainage improvement. It was decided that the implementation be carried out by consulting both of the plans. 1) PENCOL, England, conducted the detailed designs and engineering services. The construction was done by seven national companies. 2) Construction in Musherib and Rayyan Districts was completed in 1991, and the two systems have been connected. For the remaining areas of Doha City, updating of the Master Plan is considered necessary, involving the integration of the existing small facilities apace with the growth of the City. 3) The project implementation was delayed in 1988 when the oil prices declined. It is expected that the entire plan area will be provided with drainage facilities by the end of 1993. 4) The JICA study suggested the construction of canals from Rayyan District through a mangrove park proposed on the west coast, but due to the problem of public finance, the mangrove park project was not adopted. The west coast area is now being developed as residential areas.  (FY1993 Overseas Survey) 1994 scheduled to be completed.  (FY1994 Domestic Survey) No additional information.	
4.REFERENCE NO.		Total Cost      Local Cost      Foreign Cost (US\$1,000)      1)                      16                      16 2) 3)				
5.TYPE OF STUDY	F/S	3.CONTENTS OF MAJOR PROJECT(S)			(FY1993 Overseas Survey) 1994 scheduled to be completed.  (FY1994 Domestic Survey) No additional information.	
6.COUNTERPART AGENCY	Water Dept., Ministry of Electricity and Water Since 1989, Ministry of Industry and Public Works and the Municipal Government of Doha	Collecting conduit at Musherib District - 12.9 km Collecting conduit and water-conveyance at Rayyan District - 5.9 km (collecting) + 14.4 km (conveyance) Mangrove park				
7.OBJECTIVES OF STUDY	Determination on the actual up-rising of ground water and establishment of urgent drainage measures	4.FEASIBILITY AND ITS ASSUMPTIONS			(FY1993 Overseas Survey) 1994 scheduled to be completed.  (FY1994 Domestic Survey) No additional information.	
8.DATE OF S/W	Oct.1985	Imp. Period: Feasibility:      EIRR1)      FIRR1) Yes/No      EIRR2)      FIRR2) EIRR3)      FIRR3)				
9.CONSULTANT(S)	Yachiyo Engineering Co., Ltd.	Conditions and Development Impacts: Actual damages due to up-rising of ground water and future forecast with countermeasures were studied. For development effects, diminution in the damages and improvement of urban life were expected.			2.MAJOR REASONS FOR PRESENT STATUS 1) Ground water drainage projects, which contribute to the improvement of urban infrastructure and functions, are given high priorities. 2) Financial difficulty due to the fall of oil price 3) Financial and social difficulties entirely caused by the crisis of Gulf War.	
10.STUDY TEAM	No.of Members    8 Period Dec.1985-Apr.1987 (17 months)	5.TECHNICAL TRANSFER				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	(1) Test construction (pumping test, periodic observation of ground water level)	1) Training was held for one (1) trainee for the ground water up-rising problem and its measures.			3.PRINCIPAL SOURCE OF INFORMATION	
12.EXPENDITURE	Total                      244,245 (¥'000) Contracted                238,398				①, ②, ③	

和名 ドーハ市地下水排水対策

[F/S,D/D]

## PROJECT SUMMARY (Other)

Compiled Mar. 1992  
Revised Mar. 1995

MEA SAU/S 601/83

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS																	
1. COUNTRY	Saudi Arabia	1. SITE OR AREA	138,703 sq.m in Jeddah (the same site for the cancer centre)			1. PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input checked="" type="checkbox"/> Discontinued															
2. NAME OF STUDY	General Hospital : Establishment Project	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></td> <td>(US\$1,000)</td> <td>1) 71,383</td> <td>71,383</td> <td></td> </tr> <tr> <td></td> <td></td> <td>2)</td> <td></td> <td></td> </tr> </table>					Total Cost	Local Cost	Foreign Cost		(US\$1,000)	1) 71,383	71,383				2)	
		Total Cost	Local Cost	Foreign Cost																		
	(US\$1,000)	1) 71,383	71,383																			
		2)																				
3. SECTOR	Social Infrastructures/Architecture & Housing	3. CONTENTS OF MAJOR PROJECT(S)	1) Number of Beds: General Hospital: 500 beds Cancer Centre: 300 beds Total: 800 beds 2) Number of Out Patients: 300 P./Day 1. Preliminary Clinics: 1,400 P./Day 2. General Hospital: 1,000 P./Day 3. Cancer Centre: 600 P./Day 3) Number of emergency cases: 250 P./Day The out patients for General Hospital and Cancer Centre should be recommended by other institutions.																			
4. REFERENCE NO.		4. CONDITIONS AND DEVELOPMENT IMPACTS				1) A focal point of medical care as a cenyral, general hospital in the western region of the Kidom. 2) A place for training of doctors, nurses and other para-medical stuff, in close relation with such educational institutions as the king Abdul-Aziz University. 3) A centre of medical information as well as infectious disease surveillance. 4) Public health activities and clinical research works are expected, along with the high standard diagnostic and therapeutic functions.			2. MAJOR REASONS FOR PRESENT STATUS													
5. TYPE OF STUDY	Other	10. STUDY TEAM	The limitation of the public sector finance mainly caused by the decline of the prices.						3. PRINCIPAL SOURCE OF INFORMATION													
6. COUNTERPART AGENCY	Ministry of Health	No. of Members 10 Period Jul. 1983-Nov. 1983 (5 months)				<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td>Total M/M</td> <td>16.00</td> <td>4.00</td> </tr> </table>					Japan	Field	Total M/M	16.00	4.00	①						
	Japan	Field																				
Total M/M	16.00	4.00																				
7. OBJECTIVES OF STUDY	To formulate a basic design of General Hospital adjacent to the National Cancer Centre, in Jeddah on the basis of the concept agreed upon between Japan and Saudi Arabia	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	5. TECHNICAL TRANSFER Acceptance of trainees (on medical technology)																			
8. DATE OF S/W	. 1983	12. EXPENDITURE																				
9. CONSULTANT(S)	Azusa Sekkei Co., Ltd. Nihon Sekkei, Inc.	Total 66,654 (¥'000) Contracted																				

和名 総合病院設立計画基本設計

[M/P, Basic Study, Other]



# PROJECT SUMMARY (Other)

MEA SAU/S 602/83

Compiled Jun.1991  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS	
1.COUNTRY	Saudi Arabia	1.SITE OR AREA	East of the old international airport in Jeddah, the area of the site is 138,703 sq.m		
2.NAME OF STUDY	National Cancer Center : Establishment Project	2.PROJECT COST			
3.SECTOR	Social Infrastructures/Architecture & Housing		Total Cost	Local Cost	Foreign Cost
4.REFERENCE NO.			(US\$1,000)	1)	485,676
5.TYPE OF STUDY	Other		2)	485,676	485,676
6.COUNTERPART AGENCY	Ministry of Health	3.CONTENTS OF MAJOR PROJECT(S)		(Description) Because of the financing problem, the construction was delayed, but one JICA expert was dispatched as part of the health care cooperation program.  (FY1994 Domestic Survey) No information	
7.OBJECTIVES OF STUDY	To formulate the survey on basic design for constructing the National Cancer Center of 200-bed scale in Jeddah.	Cancer Center will have: 200 beds, which would extend to 300 in total in the future, special diagnosis and therapy departments, such as radioisotope diagnosis, radiotherapy, chemotherapy and radioisotope therapy, clinical research department, cancer information center.			
8.DATE OF S/W	Aug.1982	The Join-Use Facilities will have: General clinic, radiodiagnosis, endoscopy diagnosis, physiology diagnosis, clinical laboratory, autopsy, surgery, C.C.R.U., rehabilitation and blood bank sections, common service, maintenance, recreation administration units.			
9.CONSULTANT(S)	Azusa Sekkei Co., Ltd.	4.CONDITIONS AND DEVELOPMENT IMPACTS			
10.STUDY TEAM	No.of Members 12 Period Nov.1982-Aug.1983 (9 months)	The Cancer Center will provide specialized diagnostic, the therapeutic and clinical research and staff training services, and establish diagnostic and an information dissemination system on these area.			
	Total M/M          Japan          Field				
	12.00				
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY					
12.EXPENDITURE		5.TECHNICAL TRANSFER			
	Total          237,026 (¥'000)	OJT on the construction planning of the specialized hospital facilities.			
	Contracted				
				2.MAJOR REASONS FOR PRESENT STATUS	
				3.PRINCIPAL SOURCE OF INFORMATION	
				①	

和名 国立がんセンター設立計画基本設計

(M/P, Basic Study, Other)

# PROJECT SUMMARY (F/S)

MEA SDN/S 301/77

Compiled Mar.1986  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Sudan	1.SITE OR AREA				1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" 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 Road Project el Obeid-Um Ruaba		Trans-African Continental Road (El Obeid - Um Ruaba about 130 km)					
3.SECTOR Transportation/Road		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost	
4.REFERENCE NO.		(US\$1,000)	1) 40,000	12,500			
5.TYPE OF STUDY F/S		2)					
6.COUNTERPART AGENCY RBPC:Roads and Bridges Public Corporation		3)					
7.OBJECTIVES OF STUDY Road Study, Traffic Study, Economic Analysis		3.CONTENTES OF MAJOR PROJECT(S) An inter-regional transport system in the Sudan has been developed in parallel to the River Nile which runs from south to north through the country. The next target of the development programme will be to improve the transport lines crossing the vast country from Port Sudan to the western areas. Also this project is based on the strategy of the above. The project road starts from El obeid and runs eastward to Um Ruaba (130 km) in a sand dune savanna areas. The optimum construction plane proposed after the economic evaluation is divided into three sections El Obeid - Nawa (46 km), Nawa - Semeih (40.50 km), Semeih - Um Ruaba (46.95 km). Construction Period : Year of 1978 - 1982 (including detail design period). Design Conditions Design Speed : 100 Km/hr for flat terrain and 80 Km/hr hilly terrain Alignment : Minimum horizontal curve R=1,000m Maximum longitudinal gradient 4.67% Pavement : DBST on 6 m cartilage way Bridge : 166 m Box Culverts : 20 phases Pipe Culverts : 696 m				(Description) The section examined by the study (130km between El Obeid and Um Ruaba) was changed as "Western Agricultural Marketing Road" as shown below, and construction was completed in 1991. 1) Kosti-Temedeli (116km) was studied with Norwegian assistance, and construction was financed by AfDB (US\$ 15 million; June 1987-March 1991). 2) Temedeli-(Um Ruaba)-El Obeid (133km) was constructed by USAID finance (October 1987 - September 1991).  (FY1991 Overseas Survey) No additional information  (FY1994 Domestic Survey) No additional information	
8.DATE OF S/W Mar.1977		Imp. Period: 1976-1977					
9.CONSULTANT(S) Mitsui Consultants Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes	EIRR1) 19.10 EIRR2) 16.00 EIRR3)	FIRR1) FIRR2) FIRR3)	
10.STUDY TEAM No. of Members 12 Period Apr.1977-Mar.1978(12 months)  Total M/M          Japan          Field 22.10                  4.30                  17.80		Conditions and Development Impacts: [Conditions] (1) Inflation : Pay no regard (2) Exchange Rate : LS 1.0 - US\$ 2.52 (June, 1977) (3) Increase in Population : 2.2% per year (4) Increase in Traffic Demand : With the growth rate of 7% p.a., up to 1992 and afterwards 5% p.a. up to 2002 (5) Project Evaluation Period : From year of 1977 to 2002 (6) Generated Traffic : 10% of the normal traffic in the first year of road use  [Development Impacts] Considerable amount of goods are presently being carried by trucks for long distance hauls on poor conditioned roads. If the paved roads is constructed, the traveling time and damage to goods will be lessened. In addition to that, small vehicles now confined to El Obeid and other urban streets can travel easily to other neighbouring zones on the new road. As a result, diverted and generated benefits are assumed to be generated after all the sections are opened for use.				2.MAJOR REASONS FOR PRESENT STATUS	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER				3.PRINCIPAL SOURCE OF INFORMATION ①, ②	
12.EXPENDITURE		Trainees: These persons were trained in methodology, highway engineering, etc.					
Total		222,832 (¥000)					
Contracted		188,000					

和名 道路建設計画

(F/S,D/D)



# PROJECT SUMMARY (F/S)

MEA SDN/S 302/89

Compiled Mar.1991  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT		
1. COUNTRY	Sudan	1. SITE OR AREA	Khartoum and Omdurman cities			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	Construction of the New White Nile Bridge	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost			
3. SECTOR	Transportation/Road		1) 74,551	28,911	45,640	(Description) The costs of the D/D and construction are expected to be financed by Japanese Grant Aid. Disbursements have been postponed due to political destabilization.  (FY1991 Overseas Survey) The JICA Office decided not to make an inquiry on this project.  (FY1992 Overseas Survey) Waiting for the answer.  (FY1994 Domestic Survey) The Gov't of Sudan signed the contract with the Chinese contractor (China Gillin International Economic and Technology Corporation) in Mar.1994. The Chinese contractor has commenced the works in Aug.1994.		
4. REFERENCE NO.			2)					
5. TYPE OF STUDY	F/S	3. CONTENTS OF MAJOR PROJECT(S)	3)					
6. COUNTERPART AGENCY	Commissionerate of Engineering Affairs, National Capital Khartoum (NCK)	Bridge	: A 757.2 m long 4-lane concrete type bridge with sidewalks; consisting of 80 m span PC box girders, 36.2 m span PC I-girders and RC hollow slab.					
7. OBJECTIVES OF STUDY	To examine technical and economic feasibility of constructing a new bridge	Approach	: Omdurman side = 2,285 m Khartoum side = 1,357 m					
8. DATE OF S/W	Aug. 1988	Intersection	: 2 at-grade intersections (Omdurman and Khartoum)					
9. CONSULTANT(S)	Nippon Koei Co., Ltd. Central Consultant, Inc.	Imp. Period:	Aug. 1991-Mar. 1995					
10. STUDY TEAM	No. of Members 11 Period Dec. 1988-Mar. 1990 (15.25 months)	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) 17.70 EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)			
	Total M/M      Japan      Field 59.96      16.13      43.83	Conditions and Development Impacts: Development Impacts: 1. To relieve traffic congestion in Greater Khartoum 2. To allow heavy vehicles to pass over the White Nile 3. To enlarge the traffic capacity over the White Nile 4. To enable rehabilitation works of the existing bridge, by distributing traffic between the existing bridge and the new bridge 5. To facilitate the urban development in Omdurman 6. An appropriate town plan should be prepared before the completion of the bridge.				2. MAJOR REASONS FOR PRESENT STATUS  1) Although the highest priority has been given to this project among NCK's projects, implementation is postponed due to political destabilization.		
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	- Topographic Survey - Subsoil Investigation - Traffic Survey	5. TECHNICAL TRANSFER						
12. EXPENDITURE	Total 247,869 (¥'000) Contracted 217,440	Seven engineers were involved as Sudanese counterparts and technical transfer was fulfilled by on-the-job-training. Two counterparts were participated in JICA training program in F/Y 1989. Counterparts lectured on this study at Khartoum University.				3. PRINCIPAL SOURCE OF INFORMATION ①, ②		

和名 新白ナイル橋建設計画

[F/S,D/D]

# PROJECT SUMMARY (F/S)

MEA SDN/A 302/91

Compiled Mar.1993  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																					
1. COUNTRY	Sudan	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 Hurga and Nur El Din Pump Scheme Rehabilitation Project		The study area is located about 220km south east of Khartoum and extends over the east bank of the Blue Nile between the Rahad and the Dinder rivers.																									
3. SECTOR Agriculture/Irrigation, Drainage & Reclamation		2. PROJECT COST				(Description) Basic design study was conducted from October 1991 to March 1992. (FY1992 Overseas Survey) Waiting for the answer. (FY1993 Domestic Survey) * The official request for the project implementation has not been made due to the table situation of Sudan. (FY1994 domestic Survey) No progress.																					
4. REFERENCE NO.		<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;">29,268</td> <td style="text-align: center;">7,398</td> <td style="text-align: center;">21,951</td> </tr> <tr> <td></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)	29,268	7,398	21,951		2)					3)			
		Total Cost	Local Cost	Foreign Cost																							
(US\$1,000)	1)	29,268	7,398	21,951																							
	2)																										
	3)																										
5. TYPE OF STUDY		3. CONTENTS OF MAJOR PROJECT(S)																									
6. COUNTERPART AGENCY Ministry of Irrigation (MOI)		1. Pumping Station: Rated discharge 148sq.m/min./unit X 4sets Design head 24m 2. Power Supply System: 33kv distribution line 9.5km 3. Link Canal: 450m 4. Canal System: New                   12.75km Rehabilitation 89.51km Drain                   57.35km 5. O&M Facilities: 7nos.																									
7. OBJECTIVES OF STUDY To Conduct a feasibility study on improvement of the Hurga and Nur El Din Pump Irrigation Schemes centered on rehabilitation of the Hurga and Nur El Din pumping facilities.		4. FEASIBILITY AND ITS ASSUMPTIONS																									
8. DATE OF S/W		Imp. Period:																									
9. CONSULTANT(S) Nippon Koei Co., Ltd. Kokusai Kougyo Co., Ltd.		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1</td> <td style="width: 15%;">13.80</td> <td style="width: 15%;">FIRR1)</td> </tr> <tr> <td></td> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </table>					Feasibility:	EIRR1	13.80	FIRR1)		Yes	EIRR2)		FIRR2)			EIRR3)		FIRR3)							
	Feasibility:	EIRR1	13.80	FIRR1)																							
	Yes	EIRR2)		FIRR2)																							
		EIRR3)		FIRR3)																							
10. STUDY TEAM		Conditions and Development Impacts: Conditions: 1. The economic useful life of the Project is assumed at 50 years. 2. Economic conversion factor (ECF) of 0.41 was employed. 3. Shadow wage rate (SWR) of 0.35 was employed. 4. All costs are expressed as constant prices at 1990 level. Development Impacts: 1. The benefits are expected to increase and reach the full benefit level of S\$3,221,000 in the forth year after the completion of the project. 2. Improvement of farmers' income. 3. Vitalizing regional economic activities. 4. Increase in employment opportunity 5. Increase in women's chance of attending social activities.																									
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		5. TECHNICAL TRANSFER																									
12. EXPENDITURE		C/P trainee: 1 Person																									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;"></td> <td style="width: 15%;">137,484 (¥000)</td> <td colspan="2"></td> </tr> <tr> <td>Contracted</td> <td></td> <td style="text-align: center;">126,107</td> <td colspan="2"></td> </tr> </table>		Total		137,484 (¥000)			Contracted		126,107																		
Total		137,484 (¥000)																									
Contracted		126,107																									
		2. MAJOR REASONS FOR PRESENT STATUS																									
		3. PRINCIPAL SOURCE OF INFORMATION																									

和名 フルガ・ヌルエルディンポンプ灌漑計画

{F/S,D/D}

# PROJECT SUMMARY (Basic Study)

Compiled Mar.1990  
Revised Mar.1995

MEA TUN/S 501/87

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS				
1.COUNTRY	Tunisia	1.SITE OR AREA	Entire country			1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued		
2.NAME OF STUDY	Project de cartographie topographique	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description)  (FY1991 Overseas Survey) 1) The maps prepared by this study have been extensively used for development planning and implementation. 2) Technical transfer is considered effective, and the counterparts, after their training in Japan, are active in their respective capacities. 3) This study was followed by another JICA study which is currently preparing maps of scale 1:50,000.  (FY1994 Domestic Survey) No additional information.			
3.SECTOR	Social Infrastructures/Survey & Mapping	(US\$1,000)	1) 2,937	2,472	465				
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)	2)						
5.TYPE OF STUDY	Basic Study	1)National maps (scale: 1/200,000) covering 83,000 sq. km 2)Aerophotos covering 165,000 sq. km							
6.COUNTERPART AGENCY	Ministry of Housing and Equipment								
7.OBJECTIVES OF STUDY									
8.DATE OF S/W	Nov. 1984	4.CONDITIONS AND DEVELOPMENT IMPACTS	The maps will provide the basis for national development planning.						
9.CONSULTANT(S)	International Engineering Consultants Association								
10.STUDY TEAM	No.of Members 33 Period Jun.1985-Feb.1988 (33 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;">109.92</td> <td style="text-align: center;">21.49</td> <td style="text-align: center;">88.43</td> </tr> </table>	Total M/M						Japan	Field
Total M/M	Japan	Field							
109.92	21.49	88.43							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER	2.MAJOR REASONS FOR PRESENT STATUS						
12.EXPENDITURE	497,253 (¥'000)	3.PRINCIPAL SOURCE OF INFORMATION				①, ②			
Total									
Contracted									

和名 地図作成事業

{M/P, Basic Study, Other}



# PROJECT SUMMARY (M/P)

Compiled Mar.1993  
Revised Mar.1995

MEA TUN/A 101/91

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Tunisia	1.SITE OR AREA	An area of 5,000sq. km extended over Jendoube and other 4 province in the north western part of the Tunisia.		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2.NAME OF STUDY	Forest Management in the Mejerdanet Basin	2.PROJECT COST	Total Cost	Local Cost	(Description)  (1) Tunisia's Dept. of Forestry is preparing the forest management plan based on the basic plan and the model plan proposed by this study.  (2) The forest conservation plan is not being implemented because of the budget limitation. The Tunisian government hopes to obtain the financing from Japan for the implementation of the model plan. The proposed forest conservation plan covering an entire watershed was the first of its kind in Tunisia. The Department wants to learn Japanese watershed management methods through direct application of the model plan proposed by the JICA study.  (FY1993 Overseas Survey) Central government selected the model made by the JICA study for standard model of development study in future. Local government will conduct further study. Additionally, central government uses the map effectively.  (FY1994 Domestic Survey) No additional information.							
3.SECTOR	Forestry/Forestry & Forest Conservation	(US\$1,000)	1)	2)								
4.REFERENCE NO.		3.CONTENT(S) OF MAJOR PROJECT(S)										
5.TYPE OF STUDY	M/P	(1) The forest management plan was proposed for the Intensive Area by means of: - Demarcation of national forests - Compilation of forest register & volume table - Development of technology of reforestation and natural regeneration - Formulation of a management plan for the whole area based on the model plan  (2) The forest conservation plan was formulated for the dam's water-catchment area(30,000ha) within the intensive Area. Accordingly, the model designs of those works were prepared.										
6.COUNTERPART AGENCY	Direction General of Forestry Ministry of Agriculture	4.CONDITIONS AND DEVELOPMENT IMPACTS										
7.OBJECTIVES OF STUDY	A forest management plan and a forest conservation plan for the Mejerdanet river basin in the northwestern region of Tunisia will be formulated. The aim of the plan is to contribute to adequate and proper management of forests and river basin of Tunisia.	(1) Conservation of the last remaining forest in Tunisia. (2) Sustainable forest production. (3) Effective use of the forest by the landuse plan. (4) Water resources conservation for drinking and irrigation in the low and middle areas of the watershed. (5) Optimization of the use of irrigation dams by sedimentation control. (6) Increase of agricultural land productivity based on soil conservation.										
8.DATE OF S/W	Mar.1988	5.TECHNICAL TRANSFER			2.MAJOR REASONS FOR PRESENT STATUS							
9.CONSULTANT(S)	Japan Forest Technical Association	(1) To conduct the training of the C/P. (2) To conduct the aerial photo interpretation and transferring of its results upon to the topographical maps with the C/P.										
10.STUDY TEAM	No.of Members Period Dec.1988-May.1991(30 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;">94.86</td> <td style="text-align: center;">52.33</td> <td style="text-align: center;">42.53</td> </tr> </table>	Total M/M	Japan	Field	94.86	52.33	42.53					
Total M/M	Japan	Field										
94.86	52.33	42.53										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	No											
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">443,892 (¥'000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">410,475</td> </tr> </table>	Total	443,892 (¥'000)	Contracted	410,475				3.PRINCIPAL SOURCE OF INFORMATION  ①, ②			
Total	443,892 (¥'000)											
Contracted	410,475											

和名 メジュールダ川流域森林管理計画

[M/P,Basic Study,Other]



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

Compiled Mar.1995  
Revised

MEA TUN/S 502/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT																																				
1.COUNTRY	Tunisia	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		Greater Tunis and Sousse																																							
Flood Protection for Greater Tunis and Sousse		2.PROJECT COST			(Description)  In the F/S report, it was recommended MOEH to take immediate necessary actions for further steps such as securing finance, land acquisition of proposed retarding basins and river stretches, and so forth.																																				
3.SECTOR		<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>(US\$1,000)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>F/S 1)</td> <td>24,000</td> <td>24,000</td> <td></td> </tr> <tr> <td></td> <td>2)</td> <td>11,000</td> <td>11,000</td> <td></td> </tr> <tr> <td></td> <td>(US\$ 1,000)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>						M/P 1)	Local Cost	Foreign Cost			2)					(US\$1,000)					F/S 1)	24,000	24,000			2)	11,000	11,000			(US\$ 1,000)					3)			
	M/P 1)	Local Cost	Foreign Cost																																						
	2)																																								
	(US\$1,000)																																								
	F/S 1)	24,000	24,000																																						
	2)	11,000	11,000																																						
	(US\$ 1,000)																																								
	3)																																								
Social Infrastructures/River & Erosion Control		3.CONTENTS OF MAJOR PROJECT(S)																																							
4.REFERENCE NO.		As a result of master plan study on flood protection for 11 urban drainages, F/S was conducted on Ennkilet river in Greater Tunis and on Hamman river in Greater Sousse.  1.Ennkilet river: bank protection works for all river stretches and construction of a diversion channel and four retarding basins.  2.Hamman river:bank protection works for the upper and lower river stretches																																							
5.TYPE OF STUDY																																									
M/P+F/S																																									
6.COUNTERPART AGENCY																																									
Ministry of Equipment and Housing (MOEH)		Imp. Period: .1994-.1998																																							
7.OBJECTIVES OF STUDY		4.FEASIBILITY AND ITS ASSUMPTIONS																																							
To formulate a master plan and to make F/S on the flood protection program for Greater Tunis and Sousse		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">Feasibility:</td> <td style="width: 10%;">EIRR1)</td> <td style="width: 10%;">24.60</td> <td style="width: 10%;">FIRR1)</td> </tr> <tr> <td></td> <td>Yes/No</td> <td>EIRR2)</td> <td>17.40</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </table>				Feasibility:	EIRR1)	24.60	FIRR1)		Yes/No	EIRR2)	17.40	FIRR2)			EIRR3)		FIRR3)																						
	Feasibility:	EIRR1)	24.60	FIRR1)																																					
	Yes/No	EIRR2)	17.40	FIRR2)																																					
		EIRR3)		FIRR3)																																					
8.DATE OF S/W		Conditions and Development Impacts: Conditions for Economic Evaluation 1.Project life of 50 years 2.Construction period of 5 years 3.O/M cost = 2 % of direct construction cost  Development Impacts 1.The project is divided into 2 stages, 1st stage for 10-yr flood protection and 2nd for 100-yr. 2.EIRR was estimated for 1st stage.																																							
Sep.1992																																									
9.CONSULTANT(S)		10.STUDY TEAM  No.of Members    12 Period Feb.1993-Mar.1994(14 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total M/M</td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td></td> <td>23.20</td> <td>48.80</td> </tr> </table>			Total M/M	Japan	Field		23.20	48.80																															
Total M/M	Japan				Field																																				
	23.20	48.80																																							
Nippon Koei Co., Ltd.		11.ASSOCIATED AND/OR SUBCONTRACTED STUDY  River Survey Geological Survey																																							
10.STUDY TEAM																																									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER																																							
River Survey Geological Survey		Training in Japan Explanation for the report in each stage																																							
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION  ①																																							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Total</td> <td style="width: 10%;">284,406 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>231,731</td> </tr> </table>					Total	284,406 (¥'000)	Contracted	231,731																																	
Total	284,406 (¥'000)																																								
Contracted	231,731																																								
2.MAJOR REASONS FOR PRESENT STATUS																																									

和名 都市洪水対策計画調査

[M/P+F/S]

# PROJECT SUMMARY (Basic Study)

Compiled Mar.1995  
Revised

MEA TUN/S 502/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS									
1.COUNTRY	Tunisia	1.SITE OR AREA	Central Region in Tunisia		1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued								
2.NAME OF STUDY	La Cartographie Topographique de la Region Centrale Dans la Republique Tunisienne (Topographic Mapping of Central Region)	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost		(Description)  The Study started in Aug. 1990 and completed in March 1994. 1/50,000 topographic maps of Central Region (45 sheets) were produced as final products. They will publish for official use and are expected to be used for the planning of the 8th Social Economic Development Plan.									
3.SECTOR	Social Infrastructures/Survey & Mapping	(US\$1,000)	1) 2)											
4.REFERENCE NO.		3.CONTENTES OF MAJOR PROJECT(S)												
5.TYPE OF STUDY	Basic Study	1)Aerial photography of 1/60,000(35,000km <sup>2</sup> ) 2)Topographic Mapping of 1/50,000(45 sheets, 27,000km <sup>2</sup> )												
6.COUNTERPART AGENCY	Office de la Topographie et de la Cartographie Ministere de l'Equipment et de L'Habitat	4.CONDITIONS AND DEVELOPMENT IMPACTS												
7.OBJECTIVES OF STUDY	Aerial photography of 1/60,000 for 35,000km <sup>2</sup> and topographic mapping at 1/50,000 for 27,000km <sup>2</sup>	Central Region of the 8th Social Economic Development Plan												
8.DATE OF S/W	Feb.1990	10.STUDY TEAM												
9.CONSULTANT(S)	International Engineering Consultants Association Pasco International Inc.	No.of Members    15 Period    .1990-Mar.1994 (43 months)												
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Total M/M</td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td></td> <td style="text-align: center;">148.16</td> <td style="text-align: center;">39.70</td> <td style="text-align: center;">108.42</td> </tr> </table>						Total M/M	Japan	Field		148.16	39.70	108.42
	Total M/M	Japan	Field											
	148.16	39.70	108.42											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER												
Aerial Photography		Technology was transferred for each stage in Tunisia or Japan												
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION												
Total                    1,079,572 (¥000)		①												
Contracted            1,718,896														

和名 中部地域国土基本図作成調査

(M/P, Basic Study, Other)

# PROJECT SUMMARY (M/P)

MEA TUR/S 101/85

Compiled Mar.1988  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS							
1.COUNTRY	Turkey	1.SITE OR AREA	Ankara		1.PRESENT STATUS	<input type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input checked="" type="checkbox"/> Discontinued						
2.NAME OF STUDY	Ankara Air Pollution Control Project	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost		(Description) The application for yen credit for the rentan plant was approved at the OECF's internal meeting attended by representatives of four Ministries. Subsequently the Government of Turkey decided to use natural gas and withdrew the application.  (FY1993 Overseas Survey) Observation on air pollution is continued using the equipments supplied after the study.  (FY1994 Domestic Survey) No additional information.							
3.SECTOR	Administration/Environmental Problems	(US\$1,000)	1) 2)									
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)										
5.TYPE OF STUDY	M/P	The project is to construct plants to produce biocoal and rentan. 1) Biocoal plant 100,000t/yr 6plants 2) Rentan plant 80,000t/yr 4plants										
6.COUNTERPART AGENCY	General Directorate of Environment, Prime Ministry, Republic of Turkey	The amount of investment are follows; 1) Biocoal Plant 29,640 (million Turkey Lira) 2) Rentan Plant 7,720 Other proposed projects are; Improvement of heating systems, and development of boiler systems. The investment is estimated 10,270 million Turkey Lira. It is also proposed that clearer energy than coal, oil and so on should be introduced in future.										
7.OBJECTIVES OF STUDY	Air pollution control	4.CONDITIONS AND DEVELOPMENT IMPACTS										
8.DATE OF S/W	Jul.1983	[Conditions] Boiler and heating facilities should be managed effectively in order to maximise the merit of biocoal and Rentan.  [Impacts] These projects will reduce 77% of the exhaust amount of SO2 in winter so as to override the warning level determined by Ankara city.										
9.CONCONSULTANT(S)	Pacific Consultants International	5. TECHNICAL TRANSFER										
10.STUDY TEAM	No.of Members 19 Period Nov.1984-Dec.1985(12.5 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;">25.84</td> <td></td> <td style="text-align: center;">25.84</td> </tr> </table>	Total M/M	Japan	Field			25.84		25.84	1)On the job training for counterpart staffs at JICA/Environmental Agency 2)Overseas training for 3 counterpart staffs for 1 month 3)Employment of local consultants for boring work 4)Provision and assistance in		
Total M/M	Japan	Field										
25.84		25.84										
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		6.PRINCIPAL SOURCE OF INFORMATION										
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">212,875 (¥'000)</td> </tr> <tr> <td style="text-align: right;">Contracted</td> <td style="text-align: right;">204,320</td> </tr> </table>	Total	212,875 (¥'000)	Contracted	204,320	2.MAJOR REASONS FOR PRESENT STATUS 1) The project cost is too large. 2) The alternative of increasing the import of natural gas from USSR was chosen.						
Total	212,875 (¥'000)											
Contracted	204,320											
		3.PRINCIPAL SOURCE OF INFORMATION ①, ③										

和名 アンカラ市大気汚染対策計画

{M/P,Basic Study,Other}

# PROJECT SUMMARY (F/S)

MEA TUR/A 301/89

Compiled Mar.1991  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT							
1.COUNTRY	Turkey	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 Adatepe Irrigation Project		Central Kahraman Maras province (600 sq.km, population 75,000)											
3.SECTOR Agriculture/General		2.PROJECT COST		Total Cost	Local Cost	Foreign Cost							
4.REFERENCE NO.		(US\$1,000)		1) 153,270	46,940	106,330							
5.TYPE OF STUDY		F/S		US\$1=1,220.7TL in 1988									
6.COUNTERPART AGENCY Devlet Su Isleri(DSI), or General Directorate of State Hydraulic Works		3.CONTENTS OF MAJOR PROJECT(S)				(Description) This project has been given attention as an important step to develop the economically lagging southern Anatolia region. However, the project is for the time being suspended due to priority of central government with 3 main national programs of (1) structural adjustment (2) development of eastern region, and (3) countermeasures to Ankara air pollution. Properly timed, further effort to promote project is required. As of Dec. 1991, the situation described above has remained essentially unchanged. However, there has been inquiring from the Turkish Ministry of Agriculture, Forestry and Fisheries regarding the neighboring Karakus irrigation project (similar in nature to the Adatepe Irrigation Project). The F/S for the Karakus project was carried out by the Turkish government, and subsequently revised at the time of the Adatepe F/S. According to Mr.M.Kusat, Director for DSI No.20 Kahramanmaraş office, DSI plans to construct the Adatepe irrigation dam within 1993.  (FY1993 Overseas Survey) It is postponed to construct Adatepe dam because of financial problem. But government of Purhy keeps US\$ 200,000 for the project in the 1994 nation's budget.  (FY1994 Domestic Survey) No progress.							
7.OBJECTIVES OF STUDY Agricultural development in Adatepe area. The objectives of the Study are to formulate an optimum irrigation project in Adatepe Area and to verify technical, economic and financial feasibility of the project.		Irrigation area: 44,000 ha Dam : Adatepe dam(89.0m height, 651.0m crest length) Main canal : 76km (concrete lined, open canal) Pump station: 8 sites (0.18-3.98cu.m/s discharge)											
8.DATE OF S/W		Jun.1988		Imp. Period: Jan.1991-Dec.1998									
9.CONSULTANT(S) Chuo Kaihatsu International Corp. Naigai Engineering Co., Ltd.		4.FEASIBILITY AND ITS ASSUMPTIONS		Feasibility: Yes/No	EIRR1) 15.00 EIRR2) EIRR3)			FIRR1) 12.40 FIRR2) FIRR3)					
10.STUDY TEAM		Conditions and Development Impacts: New dam and canal construction will secure stable water supply allowing introduction of new cropping pattern. On this basis, yields for with and without Project were calculated. Benefit from river improvement was computed in terms of prevention of saline intrusion and reduction of inundation by flooding.  Impacts of the project are as follows: 1. Increased yields 2. Increased farmer income 3. More efficient land use 4. Prevention of saline intrusion and flooding 5. Rectification of difference of development degree among regions 6. Improved standards of living											
No.of Members    9 Period Sep.1988--Dec.1989(6 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;">58.00</td> <td style="text-align: center;">20.50</td> <td style="text-align: center;">37.50</td> </tr> </table>		Total M/M	Japan	Field	58.00			20.50	37.50	5.TECHNICAL TRANSFER			
Total M/M	Japan	Field											
58.00	20.50	37.50											
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY Topo-mapping Test drilling(2 sites)		1)Training in Japan (3 persons); 2)OJT; and 3)Attendance at International Conference on Irrigation and Drainage in Tokyo.											
12.EXPENDITURE		3.PRINCIPAL SOURCE OF INFORMATION											
<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Total</td> <td style="text-align: right;">183,836 (¥000)</td> </tr> <tr> <td style="text-align: center;">Contracted</td> <td style="text-align: right;">166,184</td> </tr> </table>		Total	183,836 (¥000)	Contracted	166,184	①, ③							
Total	183,836 (¥000)												
Contracted	166,184												
2.MAJOR REASONS FOR PRESENT STATUS		Described as above.											

和名 アダテペ灌漑開発計画

[F/S,D/D]

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

MEA TUR/S 201B/90

Compiled Mar.1992  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	Turkey	1.SITE OR AREA	Filyos			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 Project of Filyos Port	2.PROJECT COST (US\$1,000)	M/P 1) 1,470,000 2)	Local Cost	Foreign Cost		
3.SECTOR	Transportation/Port		F/S 1) 410,000 2)	140,000	270,000		
4.REFERENCE NO.		3.CONTENTS OF MAJOR PROJECT(S)	(Description) Implementation of Filyos Port project was postponed while expansion of Iskender Port will be done in order to handle expected increasing cargo volume. Concerning expansion project of Iskender Port, the Government of Turkey has already submitted the official request to the Embassy of Japan. (JICA has not received it yet.) (FY1992 Overseas Survey) Waiting for the answer. (FY1994 Domestic Survey) No additional information.				
5.TYPE OF STUDY	M/P+F/S						
6.COUNTERPART AGENCY	DLB, General Directorate of Railways, Ports and Airports Construction, Ministry of Transport						
7.OBJECTIVES OF STUDY	1) To prepare a port development strategy for the Ankara Metropolitan Area and its adjacent areas; 2) To formulate a master plan and to examine the feasibility of a possible new port						
8.DATE OF S/W	Dec.1989						
9.CONULTANT(S)	Overseas Coastal Area Development Institute Japan Port Consultants Co., Ltd.						
10.STUDY TEAM	No. of Members 12 Period Nov.1989-Feb.1991(15 months)  Total M/M                  Japan                  Field 86.28                      40.39                      45.89						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	- Wave observation - Sounding - Boring						
12.EXPENDITURE	Total 329,380 (¥'000) Contracted 326,800						
		4.FEASIBILITY AND ITS ASSUMPTIONS					Feasibility: Yes
		5. TECHNICAL TRANSFER	Conditions and Development Impacts: <Conditions><M/P,F/S> Economic growth rate: 5 - 7%; cargo Demand: Container cargo 97,000TEUs(year 2000) 270,000TEUs(year 2010); Others 6,320,000 tons(year 2000) 15,730,000 tons(year 2010) <Impacts><M/P,F/S>1.The Filyos site is the most suitable for port cargo transportation to and from the AMA and its adjacent areas. It will greatly contribute to the rationalization of cargo movement in Turkey. 2.The new port project will offer an advantageous location for industries in the vicinity of the port as well as in the hinterland of the port. The port project will stimulated industrial investment, and thus this will expedite the development of the regions. Possible industries locatable in the first stage: (1)food processing, (2)wood processing, and (3)shipbuilding & repairing Possible industries locatable in the second stage: (1)iron & steel, (2)processing of local resources depending on thermal electric power, and (3)petroleum industry				
						2.MAJOR REASONS FOR PRESENT STATUS	1)Expansion of existing port was chosen for handling increasing cargo volume. 2)A New Port Project requires a large amount of cost and time.
						3.PRINCIPAL SOURCE OF INFORMATION	①, ③

和名 フィリオス港建設計画

{M/P+F/S}

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

Compiled Mar.1995  
Revised

MEA TUR/S 211/93

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT						
1.COUNTRY	Turkey	1.SITE OR AREA	3,000km Motorway Network in Turkey		1.PRESENT STATUS					
2.NAME OF STUDY	Motorway Maintenance, Operation and Traffic Management System	2.PROJECT COST (US\$1,000)				M/P 1) 2) F/S 1) 2) 3)	Local Cost	Foreign Cost		
3.SECTOR	Transportation/Road	3.CONTENTES OF MAJOR PROJECT(S)	Short-term Basic Plan for Maintenance and Operation shown as follows : -communications system among headquarters, regional division offices, main maintenance centers and maintenance offices, and extent of activities and responsibility of each office. -number and type of equipment required for maintenance and operation -data base and management system consisting as-built drawings and design documents of road structure and facilities, records of extraordinary incidents and maintenance works, etc. -plan to operate motorway maintenance for timely execution		<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					
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS				Feasibility: Yes/No	EIRR1) 9.26 EIRR2) 9.45 EIRR3)			
5.TYPE OF STUDY	M/P+F/S	10.STUDY TEAM	Conditions and Development Impacts: Prerequisite 1) -KGM will receive 20% of the total toll revenue from 1996, and use all the facilities for OMM system built or installed under the motorway construction contracts by KOI(Public Partnership Fund) without any extra financial burden to KGM.(FIRR=9.26%) -KGM will procure and install the additional equipment for traffic management and maintenance operations in the system completion. 2) -KGM will receive 15% of the total toll revenue from 1996 and the initial investment cost is to be borne by KOI.(FIRR=9.45%) -KGM will procure and install the additional equipment for traffic management and maintenance operations in the system completion.		(Description) Establishment of the Organization and Institution Formulation of the organization and institution on the OMM system has being processing for establishment of the offices, facilities and responsibility of each office. Installment of Equipment for OMM System Installment of the equipment such as telecommunication equipment was partially completed due to the budget constraints. At this moment, a scheme of foreign loan for purchase of the equipment funded by such as OECF is not considered by the Government of Turkey.					
6.COUNTERPART AGENCY	General Directorate of Highway(KGM), Ministry of Public Works and Settlement	8.DATE OF S/W				Nov.1991				
7.OBJECTIVES OF STUDY	-to formulate basic plan of maintenance, operation and traffic management system -to prepare a short-term implementation program and the operation manual	9.CONSULTANT(S)	Pacific Consultants International Yachiyo Engineering Co., Ltd.							
8.DATE OF S/W	Nov.1991	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Origin and Destination(OD) Survey (Subcontracted Study)							
9.CONSULTANT(S)		12.EXPENDITURE	Total 229,090 (¥'000) Contracted 213,123							
10.STUDY TEAM	No.of Members 8 Period Apr.1992-Jul.1993(16 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;">33.54</td> <td style="text-align: center;">20.14</td> <td style="text-align: center;">13.40</td> </tr> </table>	Total M/M	Japan	Field	33.54	20.14	13.40	5.TECHNICAL TRANSFER		2.MAJOR REASONS FOR PRESENT STATUS
Total M/M	Japan	Field								
33.54	20.14	13.40								
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Technical transfer of basic plan for maintenance and operation, and traffic management was conducted for the counterparts during the whole study period.		Budget Constraints						
12.EXPENDITURE				3.PRINCIPAL SOURCE OF INFORMATION						
				①、⑥ (JICA Experts in Turkey)						



# PROJECT SUMMARY (F/S)

Compiled Mar.1986

Revised Mar.1992

MEA ARE/S 301/81

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT															
1.COUNTRY	United Arab Emirate	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	Wadi al Bassierah Basin Water Resources Development Project	Wadi Al Bassierah Basin (old name: Wadi Shimal Basin, Fvjeirah Emirate, UAE)																		
3.SECTOR	Social Infrastructures/Water Resource Development	2.PROJECT COST			(Description) The water resources development project of UAE initially called for a feasibility study. But at the strong request of UAE, the implementation of D/D was added and approved by JICA. Thus, the review of the F/S which had been completed in March 1981 was carried out in parallel with D/D. The name of the project was changed for D/D as the Construction Project of Al Bassierah Dam (or Wadi Shimal Dam). The implementation of the project was suspended due to budgetary constraints.  (FY1991 Overseas Survey) In 1989, the UAE government requested the Japanese government to resume the project. In 1990, the UAE government began to resume the dam project with federal budgets. Sanyu consultant was contacted concerning the re-study of the project, because the JICA study was out of date.															
4.REFERENCE NO.		<table style="width: 100%; border-collapse: collapse;"> <tr> <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) 13,492</td> <td></td> <td></td> </tr> <tr> <td>US\$1=3.6DH</td> <td>2) 13,273</td> <td></td> <td></td> </tr> <tr> <td></td> <td>3) 13,383</td> <td></td> <td></td> </tr> </table>						Total Cost	Local Cost	Foreign Cost	(US\$1,000)	1) 13,492			US\$1=3.6DH	2) 13,273				3) 13,383
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	1) 13,492																			
US\$1=3.6DH	2) 13,273																			
	3) 13,383																			
5.TYPE OF STUDY	F/S	3.CONTENTES OF MAJOR PROJECT(S)																		
6.COUNTERPART AGENCY	Ministry of Agriculture and Fisheries	1.Construction of a dam Dam height 19.5m; Crest length 900m; Reservoir Cap. 2.5 million cu.m 2.Construction of Al Fay pond Height 7.5m; Crest length 2,000m; Reservoir Cap. 1.5 million cu.m 3.Construction of an irrigation facility <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Plan A</td> <td style="width: 15%;">Vegetables</td> <td style="width: 15%;">75ha</td> </tr> <tr> <td>Plan B</td> <td>Fruits</td> <td>65ha</td> </tr> <tr> <td>Plan C</td> <td>Vegetables</td> <td>30ha</td> </tr> <tr> <td></td> <td>Fruits</td> <td>40ha</td> </tr> </table>					Plan A	Vegetables	75ha	Plan B	Fruits	65ha	Plan C	Vegetables	30ha		Fruits	40ha		
Plan A	Vegetables	75ha																		
Plan B	Fruits	65ha																		
Plan C	Vegetables	30ha																		
	Fruits	40ha																		
7.OBJECTIVES OF STUDY	Storing flood water in the underground cistern for irrigation and household service	Imp. Period: Apr.1981-Jun.1983			2.MAJOR REASONS FOR PRESENT STATUS															
8.DATE OF S/W	Dec.1979	4.FEASIBILITY AND ITS ASSUMPTIONS																		
9.CONSULTANT(S)	Sanyu Consultants Inc.	<table 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</td> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </table>			Feasibility:	EIRR1)	FIRR1)	Yes	EIRR2)	FIRR2)		EIRR3)	FIRR3)							
Feasibility:	EIRR1)	FIRR1)																		
Yes	EIRR2)	FIRR2)																		
	EIRR3)	FIRR3)																		
10.STUDY TEAM	No.of Members 11 Period Dec.1979-Dec.1981(24 months)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total M/M</td> <td style="width: 15%;">Japan</td> <td style="width: 15%;">Field</td> </tr> <tr> <td>41.27</td> <td>21.04</td> <td>20.23</td> </tr> </table>	Total M/M	Japan	Field	41.27	21.04	20.23	Conditions and Development Impacts: Development Impacts: 1)Stable supply of water to the people in the area through the reservation and control of water resources by means of storing transient flood water in a dam to penetrate into the underground farm pond. 2)Prevention of damages from flood and control of water quality in the existing wells(protection from sea water) 3)Improvement of living circumstances by the construction of an about 70ha farm and production of fresh vegetables. -Water for living in the area relies on a sea-water-desalination plant, and the condition for the execution of the project is to produce raw water within the cost of 1.3-5.4DH. -No IRR analysis was made.			3.PRINCIPAL SOURCE OF INFORMATION ①③									
Total M/M	Japan	Field																		
41.27	21.04	20.23																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER																		
12.EXPENDITURE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">240,115 (¥000)</td> </tr> <tr> <td>Contracted</td> <td>211,458</td> </tr> </table>	Total	240,115 (¥000)	Contracted	211,458	No benefit of technical transfer for UAE was found, since most of counter partners are temporary immigrants from Egypt, Lebanon, etc.														
Total	240,115 (¥000)																			
Contracted	211,458																			

知名水資源開発計画

(F/S,D/D)



# PROJECT SUMMARY (D/D)

Compiled Mar.1990  
Revised Mar.1992

MEA ARE/S 401/81

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	United Arab Emirat	1.SITE OR AREA	Wadi Al Bassierah Basin		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	Al Bassierah Dam Project	2.PROJECT COST	Total Cost	Local Cost	(Description) 1. After the completion of this D/D, the Government of UAE decided to implement the project by international tender and asked JICA for additional cooperation on the guidance and evaluation of the tender and award procedures, which was duly approved and executed. After the completion of D/D, the project was suspended due to financial difficulty.  2. UAE sounded in 1989 the intent of the Japanese Government, desiring to revive the project, but received a negative response.  (FY1991 Overseas Survey) In 1990, the UAE government began to resume the dam project with federal budgets. Because the JICA study was undertaken ten years ago, UAE water resource engineers consider it necessary to restudy the groundwater conditions in the proposed site and to update the detailed design. The company which was successful in the tender has inquired the UAE government whether the construction can be done in accordance with the original JICA detailed design, and requested the engineering services from Japan.	
3.SECTOR	Social Infrastructures/Water Resource Development		7,191			
4.REFERENCE NO.			1)		2. UAE sounded in 1989 the intent of the Japanese Government, desiring to revive the project, but received a negative response.  (FY1991 Overseas Survey) In 1990, the UAE government began to resume the dam project with federal budgets. Because the JICA study was undertaken ten years ago, UAE water resource engineers consider it necessary to restudy the groundwater conditions in the proposed site and to update the detailed design. The company which was successful in the tender has inquired the UAE government whether the construction can be done in accordance with the original JICA detailed design, and requested the engineering services from Japan.	
5.TYPE OF STUDY	D/D		2)			
6.COUNTERPART AGENCY	Ministry of Agriculture and Fisheries	3.CONTENTS OF MAJOR PROJECT(S)	3)		2. UAE sounded in 1989 the intent of the Japanese Government, desiring to revive the project, but received a negative response.  (FY1991 Overseas Survey) In 1990, the UAE government began to resume the dam project with federal budgets. Because the JICA study was undertaken ten years ago, UAE water resource engineers consider it necessary to restudy the groundwater conditions in the proposed site and to update the detailed design. The company which was successful in the tender has inquired the UAE government whether the construction can be done in accordance with the original JICA detailed design, and requested the engineering services from Japan.	
7.OBJECTIVES OF STUDY	Recharging ground water with flood water for effective use of water resources to irrigation and household service	1.Al Bassierah Dam Dam Height 19.5m; Crest Length 900m; Reservoir Cap. 2.5 million cu.m				
8.DATE OF S/W	Mar.1981	2.Al Fay Pond(Ground water Recharge Facilities) Cap. 1.5 million cu.m			2. UAE sounded in 1989 the intent of the Japanese Government, desiring to revive the project, but received a negative response.  (FY1991 Overseas Survey) In 1990, the UAE government began to resume the dam project with federal budgets. Because the JICA study was undertaken ten years ago, UAE water resource engineers consider it necessary to restudy the groundwater conditions in the proposed site and to update the detailed design. The company which was successful in the tender has inquired the UAE government whether the construction can be done in accordance with the original JICA detailed design, and requested the engineering services from Japan.	
9.CONSULTANT(S)	Sanyu Consultants Inc.	3.Irrigation Facility and Farm 75ha				
10.STUDY TEAM	No.of Members 8 Period Apr.1981-Feb.1982(9.5 months)	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)	2. MAJOR REASONS FOR PRESENT STATUS	
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		Conditions and Development Impacts: Development Impacts: 1) Stable supply of water to the people in the area through the reservation and control of water resources by means of string transient flood water in a dam to penetrate into the underground recharge facilities. 2) Prevention of damages from flood and control of water quality in the existing wells (protection from sea water) 3) Improvement of living circumstances by the construction of an about 70 ha-farm and production of fresh vegetables.				
12.EXPENDITURE	Total 45,279 (¥'000) Contracted 43,241	5.TECHNICAL TRANSFER			3.PRINCIPAL SOURCE OF INFORMATION ①③	
		1. Transfer of geological investigation method to local consultants. 2. Supply of equipment and guidance for electrical investigation technology.				

和名 アル・バセイラダム建設計画実施設計

{F/S,D/D}

# PROJECT SUMMARY (D/D)

Compiled Mar.1990  
Revised Mar.1995

MEA ARE/A 401/85

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT	
1.COUNTRY	United Arab Emirat	1.SITE OR AREA	Umm Al Queen, located 50km north of Dubai on the Gulf of Arabia			I.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" 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	Mariculture Center	2.PROJECT COST	Total Cost	Local Cost	Foreign Cost		
3.SECTOR	Fisheries/Fisheries		1) 996	996		(Description)  (FY1991 Overseas Survey) The Center was completed in May 1984, and has been functioning well in mariculture-related research, training and extension, attracting many visitors from neighboring countries. The research program at the Center has been diverse, covering from mariculture to R & D on sea food processing. The reports of the findings have been widely exchanged with similar institutions in other countries like Japan and Malaysia. The species hatched at the aquarium of the Center have been sent to aquariums in other countries. The administration has a plan to diversify the functions of the Center, including the establishment of an extension facility in Abu Dhabi.  (FY1994 Domestic Survey) No additional information.	
4.REFERENCE NO.			2) US\$1=203yen				
5.TYPE OF STUDY	D/D	3.CONTENTS OF MAJOR PROJECT(S)	3)				
6.COUNTERPART AGENCY	Ministry of Agriculture and Fisheries	A mariculture center will be constructed in Umm Al Queen to conduct maricultural experiments and training, for the development of the marine industry in the U.A.E. JICA will provide technical training and the U.A.E. will provide construction costs. Facilities will include: Aquarium Filtration Facility Laboratory Work room Bait preparation room and water tank Lodging Culture ponds(4)					
7.OBJECTIVES OF STUDY							
8.DATE OF S/W	May.1980	Imp. Period: Sep.1982-May.1984					
9.CONSULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)		
10.STUDY TEAM	No.of Members 6 Period Jul.1980-Jul.1980(0.7 months)	Conditions and Development Impacts: There is only one marine research center along the Gulf of Arabia, in Kuwait, thus the completion of this project will increase interest in the marine industry. Other neighboring countries have plans for similar facilities. By visiting the facility, interest in the marine industry has grown among students in the U.A.E. Japan has strong trade connections with the oil producing U.A.E., and the construction of this center based on Japanese assistance has greatly helped in furthering relationships between the two countries.					
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY							
12.EXPENDITURE	Total 202,224 (¥'000) Contracted	5.TECHNICAL TRANSFER					
		- Dispatching marine specialists - Accepting trainee (1) JICA					
						2.MAJOR REASONS FOR PRESENT STATUS	The U.A.E. is located on the Gulf of Arabia and the marine industry is a major internal industry.
						3.PRINCIPAL SOURCE OF INFORMATION	①, ③

和名 水産増養殖センター建設計画

# PROJECT SUMMARY (M/P)

MEA YEM/A 101/80

Compiled Mar.1990

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS													
1.COUNTRY	Yemen	1.SITE OR AREA	Hajjah Province is located at north-west part of Yemen. Its capital, Hajjah city, is 70km away by a straight distance from state capital, Sanaa.	1.PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued												
2.NAME OF STUDY	Hajjah Province Integrated Rural Development	2.PROJECT COST	Total Cost    Local Cost    Foreign Cost (US\$1,000)            1)            56,000 US\$1-4.51YR.            2)	(Description)  (FY1991 Overseas Survey) - After the unification of the country, the project was moved to the jurisdiction of the ARDA in the Ministry of Agriculture. - The findings of the study was utilized, when IDA financed the formulation of a master plan for the NORADP (Integrated Agricultural Development Plan for Sana'a, Sadah and Hajjah Provinces) of ARDA. Major components of the master plan are as follows. <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Simple waterworks</td> <td style="width: 50%;">Financed by the Arab Fund</td> </tr> <tr> <td>Road network improv.</td> <td>Financing source unknown</td> </tr> <tr> <td>Irrigation improv.</td> <td>Financed by IDA</td> </tr> <tr> <td>(Pilot Project)</td> <td></td> </tr> <tr> <td>Agri. Mechanization Center</td> <td>Financed by IDA</td> </tr> <tr> <td>Water resource dev.</td> <td>Financed by UNDP</td> </tr> </table>		Simple waterworks	Financed by the Arab Fund	Road network improv.	Financing source unknown	Irrigation improv.	Financed by IDA	(Pilot Project)		Agri. Mechanization Center	Financed by IDA	Water resource dev.	Financed by UNDP
Simple waterworks	Financed by the Arab Fund																
Road network improv.	Financing source unknown																
Irrigation improv.	Financed by IDA																
(Pilot Project)																	
Agri. Mechanization Center	Financed by IDA																
Water resource dev.	Financed by UNDP																
3.SECTOR	Agriculture/General	3.CONTENTES OF MAJOR PROJECT(S)	1)Simple waterworks: 4 towns and villages 2)Improvement of road network: main road 80km and branch roads 3)Agricultural development: establishment of water observatory network, comprehensive laboratory, and training center of mechanization. 4)Improvement of irrigation: implementation of pilot projects of four districts 5)Improvement of afforestation field 6)Improvement of agricultural social infrastructure: establishment of health and hygiene facilities, and simple medical facilities, improvement of communication and electric power. 7)Others: improvement of organization, training of staffs, etc.  * The cost is in 1979 prices.														
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	Yemen is considered as one of LLDC and MSAC and its GDP per capita is \$220. The effect of these projects is very large to develop those areas which are almost undeveloped and make a living by the income of emigrant laborers in neighboring oil producing countries, and to stabilize social infrastructure.														
5.TYPE OF STUDY	M/P																
6.COUNTERPART AGENCY	Central Planning Organization, Ministry of Agriculture, Ministry of Public Works																
7.OBJECTIVES OF STUDY																	
8.DATE OF S/W	Aug.1978																
9.CONSULTANT(S)	Agricultural Development Consultants Association																
10.STUDY TEAM	No.of Members    22 Period    Dec.1978-Mar.1980 (16 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 style="text-align: center;">83.20</td> <td style="text-align: center;">57.33</td> <td style="text-align: center;">25.87</td> </tr> </table>	Total M/M	Japan	Field	83.20	57.33	25.87										
Total M/M	Japan	Field															
83.20	57.33	25.87															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.TECHNICAL TRANSFER	- Exchange and transfer of knowledge and technology by living and working with counterparts during the study period. - Counterpart training in Japan.	2.MAJOR REASONS FOR PRESENT STATUS  3.PRINCIPAL SOURCE OF INFORMATION (1)(3)													
12.EXPENDITURE	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Total</td> <td style="width: 15%;">256,701 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>177,514</td> </tr> </table>	Total	256,701 (¥'000)	Contracted	177,514												
Total	256,701 (¥'000)																
Contracted	177,514																

和名 ハッジヤ州農業総合開発計画

{M/P, Basic Study, Other}

# PROJECT SUMMARY (F/S)

MEA YEM/S 303/80

Compiled Mar.1986  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																	
1. COUNTRY	Yemen	1. SITE OR AREA		<table style="width: 100%; border-collapse: collapse;"> <tr> <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>1)</td> <td style="text-align: center;">18,140</td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </table>			Total Cost	Local Cost	Foreign Cost	1)	18,140			2)				3)				<b>1. PRESENT STATUS</b> <input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" 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	
	Total Cost	Local Cost	Foreign Cost																				
1)	18,140																						
2)																							
3)																							
2. NAME OF STUDY Rural Water Supply Project Part 2		2. PROJECT COST (US\$1,000)		<b>(Description)</b> The project was implemented by Japanese grant as follows.  1981 Nov. E/N signed (500 million yen) 1982 Jun. E/N (500million yen) 1983 Jul. E/N (600 million yen) 1985 Mar. D/D completed 1986 Oct.-1987 Mar. A basic design study on rural water supply development implemented. 1987 May -1988 Feb. D/D and S/V implemented 1987 Apr. Grant E/N (319 million yen) 1987 Jul. E/N (915 million yen) 1988 Sep. E/N (916 million yen)  (FY1991 Overseas Survey) Of 26 locations proposed by the present study, the Japanese grant helped implement the project at 14 locations with some reduction in scale at the time of the basic design.																			
3. SECTOR Public Utilities/Water Supply		3. CONTENTS OF MAJOR PROJECT(S)																					
4. REFERENCE NO.		Deep well construction      60m-300m      26 sites																					
5. TYPE OF STUDY F/S		Submersible pumps            19kw-30kw      26 sites																					
6. COUNTERPART AGENCY Rural Water Supply Department, Ministry of Public Works		Water storage tanks          948ton-10ton    26 sites																					
7. OBJECTIVES OF STUDY Hydrology Hydrzulics Geology		Pipeline                            Total: 175.2km for 26 sites																					
8. DATE OF S/W Dec. 1978		Imp. Period:      Jan. 1982																					
9. CONSULTANT(S) Pacific Consultants International		4. FEASIBILITY AND ITS ASSUMPTIONS																					
10. STUDY TEAM No. of Members      8 Period      Sep. 1979-May. 1980 (8 months)		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Feasibility:</td> <td style="width: 15%;">EIRR1)</td> <td style="width: 15%;">FIRR1)</td> </tr> <tr> <td></td> <td style="text-align: center;">Yes</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)	FIRR1)		Yes	EIRR2)	FIRR2)			EIRR3)	FIRR3)						
	Feasibility:	EIRR1)	FIRR1)																				
	Yes	EIRR2)	FIRR2)																				
		EIRR3)	FIRR3)																				
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY none		Conditions and Development Impacts: Point-source plan using groundwater was formulated for 26 areas (in North Yemen) where construction of rural water supply facilities was urgent. Design standards were based on water consumption of 40l/cap/day as provided by the Ministry of Public Works. This project is expected to lower price of water. Clean water for domestic consumption costs 0.32-0.12YR per capita per day on the basis of 40l per capita per day consumption. Price of water with the project would be 0.03-0.87YR per capita per day, depending on site conditions.																					
12. EXPENDITURE		5. TECHNICAL TRANSFER																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Total</td> <td style="width: 15%;">109,604 (¥'000)</td> </tr> <tr> <td></td> <td>Contracted</td> <td style="text-align: center;">98,313</td> </tr> </table>			Total	109,604 (¥'000)		Contracted	98,313	1)OJT is effective but careful selection is needed, 2)Training in Japan should be short-term due to quite different living conditions, 3)They are poorly prepared to participate in point report writing, 4)Use of local consultants, and 5)Donation of equipments may be effective but it will															
	Total	109,604 (¥'000)																					
	Contracted	98,313																					
		2. MAJOR REASONS FOR PRESENT STATUS																					
		1)Great appreciation from residents where water was supplied, 2)The 3rd rural water supply project is expected, 3)Rural water supply has a high priority in desert areas., and 4)Counterpart agency is particularly strong within the Ministry of Public Works.																					
		3. PRINCIPAL SOURCE OF INFORMATION																					
		①③																					

和名 地方水道計画 (パート2)

[F/S,D/D]

# PROJECT SUMMARY (F/S)

Compiled Mar. 1986  
Revised Mar. 1995

MEA YEM/S 301/81

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																	
1. COUNTRY	Yemen	1. SITE OR AREA	Port of Hodeidah			1. PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="checkbox"/> Completed <input checked="" 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	7th Berth Construction Project of the Port of Hodeidah	2. PROJECT COST	Total Cost	Local Cost	Foreign Cost	(Description) (FY1991 Overseas Survey) Nov. 1988 OECF loan (L/A 8.2 billion yen) The OECF loan funded the short-term development plan, but with substantial changes in project components, as shown below. F/S <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Container berth 250m</td> <td style="width: 50%;">Dredging channels 4.72 million cu.m</td> </tr> <tr> <td>RO/RO berth 1 unit</td> <td>Reclamation 389,000cu.m</td> </tr> <tr> <td>Reclamation 271,000cu.m</td> <td>Wharf (Berth 7) 295m</td> </tr> <tr> <td>Dredging 85,000cu.m</td> <td>Paving (apron, yard) 89,000m</td> </tr> <tr> <td>Paving 31,000m</td> <td>Shed, Substation 2,526cu.m</td> </tr> <tr> <td>Road 850m</td> <td>Service facilities 1set</td> </tr> <tr> <td>Container Crane 1 unit</td> <td>(electricity, lighting, water supply &amp; drainage)</td> </tr> <tr> <td>Building 1 unit</td> <td>cargo handling equip. 1set</td> </tr> </table> The Government of Yemen is currently deliberating whether the implementation proceeds to the middle-term development plan of Hodeidah Port as envisaged by the study, or the construction of a new port at Sarif should be given precedence. (FY1994 Domestic Survey) No additional information.		Container berth 250m	Dredging channels 4.72 million cu.m	RO/RO berth 1 unit	Reclamation 389,000cu.m	Reclamation 271,000cu.m	Wharf (Berth 7) 295m	Dredging 85,000cu.m	Paving (apron, yard) 89,000m	Paving 31,000m	Shed, Substation 2,526cu.m	Road 850m	Service facilities 1set	Container Crane 1 unit	(electricity, lighting, water supply & drainage)	Building 1 unit	cargo handling equip. 1set
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Road 850m	Service facilities 1set																						
Container Crane 1 unit	(electricity, lighting, water supply & drainage)																						
Building 1 unit	cargo handling equip. 1set																						
3. SECTOR	Transportation/Port	3. CONTENTS OF MAJOR PROJECT(S)	1)	11,977	30,718																		
4. REFERENCE NO.			2)	51,076	80,839																		
5. TYPE OF STUDY	F/S		3)	53,603	68,251																		
6. COUNTERPART AGENCY	Ministry of Public Works	- Short-term Plan Phase 1 (urgent plan): container berth(7th Berth) 1 berth(depth -10m, extension 250m) reclamation 271,000 cu.m, pavement 31,000 sq.m dredging 85,000cu.m, road 850m, container crane 1 unit building 1 unit, Total number of container handled 75,000TEU - Middle-term Plan by 1993 1)General Cargo Berth(-10m,200m)   2)Container wharf(-12m,250m) 3)Channel(-12m, 200m wide) - Long-term Plan by 2000 Additionally 1)General Cargo Berth(ditto) 2   2)Container wharf(ditto), 3)Channel(ditto) The project cost 1),2)and 3)above are for the short-term plan, the middle-term plan and for the Long-term plan.																					
7. OBJECTIVES OF STUDY	Formulation of M/P and Urgent Implement Plan																						
8. DATE OF S/W	Oct. 1981	Imp. Period:	1982~1986																				
9. CONSULTANT(S)	Overseas Coastal Area Development Institute Kiso-Jiban Consultants Co., Ltd.	4. FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes	EIRR1) 15.60 EIRR2) EIRR3)	FIRR1) 7.70 FIRR2) FIRR3)																		
10. STUDY TEAM	No. of Members 6 Period Nov. 1981-Mar. 1982 (3 months)  Total M/M          Japan          Field 60.73                  41.51                  19.22	Conditions and Development Impacts: [Conditions] Cargo volume is estimated at 2.57 million tons (1986) and 5.82 million tons (2000). The project life of 25 years is assumed. In terms of economic benefits, an evaluation was made concerning reduction of ship waiting costs. [Development Impacts] 1)Alleviation of the port congestion expected in the future. 2)Modernization of shipping sector through containerization on the Red Sea Coast. 3)Encouragement of regional development in the vicinity of the port. 4)Increase demand for related industries. 5)An increase in employment through continuation of port construction.				2. MAJOR REASONS FOR PRESENT STATUS The details of the project was changed because of the earthquake in Dec. 1982 and the stagnation of petroleum industries in the neighboring oil-exporting countries.																	
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY	none	5. TECHNICAL TRANSFER																					
12. EXPENDITURE	Total          164,390 (¥'000) Contracted      151,107	- Counterpart training in Japan - Seminar and OJT				3. PRINCIPAL SOURCE OF INFORMATION ①, ③, ④																	

和名 ホデイダ港第7バース建設計画

[F/S,D/D]

# PROJECT SUMMARY (F/S)

Compiled Mar.1988  
Revised Mar.1992

MEA YEM/S 302/84

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS				III. PRESENT STATUS OF STUDIED PROJECT																																																				
1.COUNTRY	Yemen	1.SITE OR AREA		Sana'a, Dhamar, Ibb, Taizz, Hudaydah, Hajjah		1.PRESENT STATUS	<input checked="" type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input checked="" 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		2.PROJECT COST		Total Cost	Local Cost			Foreign Cost																																																		
Rural Telecommunications Network		(US\$1,000)		1) 32,964	7,848	25,116																																																				
3.SECTOR		3.CONTENTS OF MAJOR PROJECT(S)				(Description) (FY1991 Overseas Survey) At the stage of the basic design, the project components were changed as follows. <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">F/S</td> <td style="text-align: center;">Basic Design</td> </tr> <tr> <td>Base stations</td> <td style="text-align: center;">6</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Repeater Sts.</td> <td style="text-align: center;">38</td> <td style="text-align: center;">32</td> </tr> <tr> <td>Subscriber Sts.</td> <td style="text-align: center;">436</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">Phase 1</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">100 (Sana'a)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">18 (Dhamar)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">20</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">Phase 2</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">20 (Ibb)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">20 (Taizz)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">20 (Hudaydah)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">2 (Sana'a)</td> </tr> </table> The construction was completed as shown below. <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">Phase 1</td> <td style="text-align: center;">phase 2</td> </tr> <tr> <td>E/N signing</td> <td style="text-align: center;">June '89</td> <td style="text-align: center;">June '90</td> </tr> <tr> <td>Contract</td> <td style="text-align: center;">Feb. '90</td> <td style="text-align: center;">Dec. '90</td> </tr> <tr> <td>Completion</td> <td style="text-align: center;">Mar. '91</td> <td style="text-align: center;">Mar. '92</td> </tr> </table> Ministry of Comm. and Transport has requested in Oct.1991 a Japanese grant for the construction of 159 additional subscriber stations and 2 small-scale satellite stations in the eastern region of Yemen.			F/S	Basic Design	Base stations	6	5	Repeater Sts.	38	32	Subscriber Sts.	436				Phase 1			100 (Sana'a)			18 (Dhamar)			20			Phase 2			20 (Ibb)			20 (Taizz)			20 (Hudaydah)			2 (Sana'a)		Phase 1	phase 2	E/N signing	June '89	June '90	Contract	Feb. '90	Dec. '90	Completion	Mar. '91	Mar. '92
	F/S	Basic Design																																																								
Base stations	6	5																																																								
Repeater Sts.	38	32																																																								
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		100 (Sana'a)																																																								
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	Phase 1	phase 2																																																								
E/N signing	June '89	June '90																																																								
Contract	Feb. '90	Dec. '90																																																								
Completion	Mar. '91	Mar. '92																																																								
4.REFERENCE NO.		1)Contents																																																								
5.TYPE OF STUDY		a) Composed of 6 sub-rural networks																																																								
6.COUNTERPART AGENCY		b) Digital Radio Concentrator System (DRCS) to each sub-rural network																																																								
Ministry of Communication and Transport (MOC), Public Telecommunications Corporation Headquarters (PTC)		c) Provision of subscriber lines of each sub-rural network in the existing switch or line concentrator of sub-rural network																																																								
7.OBJECTIVES OF STUDY		2)Facilities																																																								
Feasibility study on rural telecommunications network		- Base station; 6 sites (23 base units)																																																								
		- Repeater station; 38 sites (55 repeater units)																																																								
		- Subscriber station; 436 sites																																																								
8.DATE OF S/W		Imp. Period:																																																								
Jun.1984		.1985~.1989																																																								
9.CONSULTANT(S)		4.FEASIBILITY AND ITS ASSUMPTIONS																																																								
Nippon Telecommunication Consulting Co., Ltd.		Feasibility: Yes		EIRR1) 11.91	FIRR1) 7.43																																																					
				EIRR2)	FIRR2)																																																					
				EIRR3)	FIRR3)																																																					
10.STUDY TEAM		Conditions and Development Impacts: The proposed study will facilitate smooth communication between urban and rural areas, and benefit administration, medical and educational facilities and agricultural producers.																																																								
No.of Members 12																																																										
Period Aug.1984-Mar.1985(7 months)																																																										
Total M/M		Japan		Field																																																						
39.94		18.34		21.60																																																						
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																																																										
12.EXPENDITURE		5.TECHNICAL TRANSFER																																																								
Total 115,983 (¥'000)		1)Acceptance of a trainee; one counterpart staff was invited to Japan, and training was conducted for the project concerned.																																																								
Contracted 103,482		2)on the Job Training for counterparts																																																								
		3.PRINCIPAL SOURCE OF INFORMATION																																																								
		①③																																																								
		2.MAJOR REASONS FOR PRESENT STATUS																																																								
		1)Effectiveness 2)High priority																																																								

# PROJECT SUMMARY (M/P)

MEA YEM/S 101/88

Compiled Mar.1990  
Revised Mar.1995

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS			III. PRESENT STATUS OF STUDY RESULTS								
1. COUNTRY	Yemen	1. SITE OR AREA	Sana'a, Taizz, Hudayda			1. PRESENT STATUS	<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued						
2. NAME OF STUDY	Urban Transport Study	2. PROJECT COST	(US\$1,000)	Total Cost 1) 22,047 2)	Local Cost 4,659	Foreign Cost 17,388	(Description) (FY1991 Overseas Survey) - The Government of Yemen (GOY) requested funding from the World Bank and Japan (grant aid) - The Japanese grant was not approved because of the low priority of the project.  (FY1991 Overseas Survey) - A JICA expert was assigned from March 1990 to March 1992. - The following projects were implemented in Sana'a City. Interchange improvement      IDA fund(1990) Fences, sign boards, etc.      Own fund Maintenance of signals      Germany (purchase of maintenance vehicles) - No action has been taken in Taizz and Hudayda.  (FY1994 Domestic Survey) No additional information.						
3. SECTOR	Transportation/Urban Transportaion	3. CONTENTS OF MAJOR PROJECT(S)											
4. REFERENCE NO.		1) Improvement of interchanges 2) Expansion and replacement of the signal system 3) Construction of fences, sign boards, etc.											
5. TYPE OF STUDY	M/P	4. CONDITIONS AND DEVELOPMENT IMPACTS											
6. COUNTERPART AGENCY	Dept. of Planning, Ministry of Cities and Housing	1) Smooth ordering of urban traffic 2) Efficient use of urban roads 3) Reduction of traffic accidents  Signals and lane marking will smoothen traffic flows. Parking sites will give much road surface to traffic movement. Pedestrian bridges and crossing marks will also reduce traffic accidents and increase flows of traffic on roads.											
7. OBJECTIVES OF STUDY	Formulation of a short-term plan for urban transport development	10. STUDY TEAM											
8. DATE OF S/W	Jun.1987	No. of Members      9 Period Oct.1987-Nov.1988 (13 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;">51.20</td> <td style="text-align: center;">7.90</td> <td style="text-align: center;">34.20</td> </tr> </table>						Total M/M	Japan	Field	51.20	7.90	34.20
Total M/M	Japan	Field											
51.20	7.90	34.20											
9. CONSULTANT(S)	Pacific Consultants International Yachiyo Engineering Co., Ltd.	11. ASSOCIATED AND/OR SUBCONTRACTED STUDY											
12. EXPENDITURE		5. TECHNICAL TRANSFER											
Total	188,632 (¥'000)	Acceptance of a trainee (JICA counterpart training program)											
Contracted	160,783	3. PRINCIPAL SOURCE OF INFORMATION											
		①, ③											
		2. MAJOR REASONS FOR PRESENT STATUS											

和名 都市交通計画

(M/P,Basic Study,Other)

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

Compiled Mar.1991  
Revised Mar.1995

MEA YEM/S 201B/89

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																															
1.COUNTRY	Yemen	1.SITE OR AREA	Ma'alla, Tawahi, Crater and Khormaksar Districts in Aden. Area: 2,132 ha, Population: 151,602 (1988)<M/P> Ma'alla and Tawahi Districts in Aden. Area: 485 ha, Population: 72,219		1.PRESENT STATUS																														
2.NAME OF STUDY	Improvement of Ma'alla and Tawahi Sewerage System in Aden	2.PROJECT COST (US\$1,000)	M/P 1) 70,287 Local Cost 2) 2) 39,808 FS 1) 4,648 2) 35,160 3) 3)	9,805 Foreign Cost	<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																														
3.SECTOR	Public Utilities/Sewerage	3.CONTENTES OF MAJOR PROJECT(S)	(Description) (FY1991 Overseas Survey) <M/P> The Government is strongly requesting Japanese aid for the improvement of the sewer system in Sanaa City rather than for the remaining two districts (Crater and Khormaksar). <F/S> The PDRY Government requested in March 1991 Japanese grant aid for the implementation of the project (US\$24 million or 3.1 billion yen). The Japanese Government notified the PDRY Government that it would be difficult to fund the project from the grant aid program.  (FY1994 Domestic Survey) Because of the prolonged political turmoil since 1991, such as the Gulf War and unification of North and South Yemen in 1991, and the civil war in 1994, no information on the present situation of the project is available.																																
4.REFERENCE NO.																																			
5.TYPE OF STUDY	M/P+F/S																																		
6.COUNTERPART AGENCY	General Directorate for Local Government (O & M Aden Municipality)																																		
7.OBJECTIVES OF STUDY	Improvement of the existing sewerage system and provision of sewerage treatment.																																		
8.DATE OF S/W	Jul.1988																																		
9.CONSULTANT(S)	Tokyo Engineering Consultants Co., Ltd.																																		
		Imp. Period: 1990-1994																																	
		4.FEASIBILITY AND ITS ASSUMPTIONS				Feasibility: Yes/No	EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)																												
10.STUDY TEAM	No. of Members 10 Period Nov.1988-Jan.1990 (15 months)	Conditions and Development Impacts:				Planning Conditions: 1) In M/P, planned service population and sewage volume(cu.m/day) in 2010 are: <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th></th> <th>Pop</th> <th>Household sewage</th> <th>Other sewage</th> <th>Total sewage</th> </tr> </thead> <tbody> <tr> <td>Ma'alla</td> <td>68,000</td> <td>12,240</td> <td>1,224</td> <td>13,464</td> </tr> <tr> <td>Tawahi</td> <td>20,000</td> <td>3,600</td> <td>3,312</td> <td>6,912</td> </tr> <tr> <td>Crater</td> <td>77,000</td> <td>13,860</td> <td>774</td> <td>14,634</td> </tr> <tr> <td>Khormaksar</td> <td>21,000</td> <td>3,780</td> <td>9,979</td> <td>13,759</td> </tr> <tr> <td>Total</td> <td>186,000</td> <td>33,480</td> <td>15,289</td> <td>48,769</td> </tr> </tbody> </table> 2) In F/S, all construction is financed with grant aid. 3) Sewerage charge(new) is 30% of water usage charge. (FIRR is negative even when the rate is set at 60%) Development Impacts: 1) Elimination of water pollution in the Inner Harbor of Aden 2) Better living environment 3) Creation of green belts by use of treated effluent				Pop	Household sewage	Other sewage	Total sewage	Ma'alla	68,000	12,240	1,224	13,464	Tawahi	20,000	3,600	3,312	6,912	Crater	77,000	13,860	774	14,634	Khormaksar	21,000	3,780	9,979	13,759	Total	186,000
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	Total M/M                  Japan                  Field 67.56                          22.97                          44.59																																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																																			
12.EXPENDITURE	Total (¥'000) Contracted 227,703	5. TECHNICAL TRANSFER	3. PRINCIPAL SOURCE OF INFORMATION																																
		Advice to water quality analysts about the existing sewage treatment plant in Aden. Provision of training in Japan to two counterpart persons from the General Directorate for Local Government and the Aden Municipality.	①, ③																																

和名 アデン市マアラ地区・タワヒ地区下水道施設改善計画

[M/P+F/S]



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