

# PROJECT SUMMARY (F/S)

MEA SDN/S 301/77

Compiled Mar.1986

Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																					
1.COUNTRY	Sudan	1.SITE OR AREA	Trans-African Continental Road (El Obeid - Um Ruaba about 230 km)																						
2.NAME OF STUDY	Road Project el Obeid-Um Ruaba	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>40,000</td> <td>12,500</td> <td></td> </tr> <tr> <td>1)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	40,000	12,500		1)				2)				3)			
	Total Cost	Local Cost	Foreign Cost																						
(US\$1,000)	40,000	12,500																							
1)																									
2)																									
3)																									
3.SECTOR	Transportation/Road	3.CONTENT(S) OF MAJOR PROJECT(S)	<p>Contents: Construction of new DBST pavement road</p> <p>Scale: 133 km</p> <p>Designed speed: 80 km as average</p> <p>Width: 6 meter</p>																						
4.REFERENCE NO.		<p>Imp. Period: 1976-1977</p> <table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>19.10</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2</td> <td>16.00</td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </tbody> </table> <p>Conditions and Development Impacts:</p> <p>Premise:</p> <p>Case 1: Traffic growth is 7% up to 1992, and 5% up to 2002</p> <p>Case 2: 5% up to 2002</p> <p>Benefit: Saving of transport expenses</p>	Feasibility:	EIRR1	19.10	FIRR1	Yes	EIRR2	16.00	FIRR2		EIRR3		FIRR3											
Feasibility:	EIRR1		19.10	FIRR1																					
Yes	EIRR2		16.00	FIRR2																					
	EIRR3			FIRR3																					
5.TYPE OF STUDY	F/S																								
6.COUNTERPART AGENCY	RBPC:Roads and Bridges Public Corporation																								
7.OBJECTIVES OF STUDY	Road Study, Traffic Study, Economic Analysis																								
8.DATE OF S/W	Mar.1977	9.CONSULTANT(S)	Mitsui Consultants Co., Ltd.																						
10.STUDY TEAM	<p>No.of Members 12</p> <p>Period Apr.1977-Mar.1978 (12 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>22.10</td> <td>4.30</td> <td>17.80</td> </tr> </tbody> </table>	Total M/M	Japan	Field	22.10	4.30	17.80	11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																	
Total M/M	Japan	Field																							
22.10	4.30	17.80																							
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>222,832 (¥000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>65,487</td> <td></td> </tr> </tbody> </table>		Total	222,832 (¥000)	Contracted	65,487		5.technical transfer	<p>Trainees: These persons were trained in methodology, highway engineering, etc.</p>																
	Total	222,832 (¥000)																							
Contracted	65,487																								
		1.PRESENT STATUS	<input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting <input type="radio"/> Completed <input type="checkbox"/> Delayed or Suspended <input type="radio"/> Implementing <input checked="" type="checkbox"/> Discontinued or Cancelled <input type="radio"/> Processing																						
		(Description)	<p>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.</p> <p>1) Kosti-Temedeli (116km) was studied with Norwegian assistance, and construction was financed by AfDB (US\$ 15 million; June 1987-March 1991).</p> <p>2) Temedeli-(Um Ruaba)-El Obeid (133km) was constructed by USAID finance (October 1987 - September 1991).</p> <p>(FY1991 Overseas Survey)</p> <p>No additional information.</p>																						
		2.MAJOR REASONS FOR PRESENT STATUS																							
		3.PRINCIPAL SOURCE OF INFORMATION	①②																						

和名 道路建設計画

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

# PROJECT SUMMARY (F/S)

MEA SDN/A 301/79

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Sudan	1.SITE OR AREA	About 20,000ha along White Nile, 200km south of the capital Khartum.																		
2.NAME OF STUDY	Rice Development Project in Abu Gasaba Basin	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>210,760</td> <td>73,260</td> <td>137,500</td> </tr> <tr> <td>2) US\$1=0.39SP.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	210,760	73,260	137,500	2) US\$1=0.39SP.				3)			
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	210,760	73,260	137,500																		
2) US\$1=0.39SP.																					
3)																					
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)	(Description)  (FY1991 Overseas Survey) The pilot farm was completed by Japanese grant aid.  Aug. 1978 E/N 500 million yen (farm land development and provision of farm machinery) 1978 Basic design completed Mar. 1979 Construction completed  Jul. 1979 E/N 1,000 million yen (pilot farm expansion) 1979 Basic design completed Mar. 1981 Construction completed Apr. 1982 E/N 150 million yen (pilot farm expansion)																		
4.REFERENCE NO.																					
5.TYPE OF STUDY	F/S																				
6.COUNTERPART AGENCY	Ministry of Agriculture, Food and Natural Resources																				
7.OBJECTIVES OF STUDY																					
8.DATE OF S/W	Mar.1977	Imp. Period:	May.1978-Jun.1986																		
9.CONULTANT(S)	Nihon Koei Co., Ltd.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>17.60</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> </tr> </tbody> </table>			Feasibility:	EIRR1)	17.60	FIRR1)	Yes	EIRR2)		FIRR2)		EIRR3)		FIRR3)				
Feasibility:	EIRR1)	17.60	FIRR1)																		
Yes	EIRR2)		FIRR2)																		
	EIRR3)		FIRR3)																		
10.STUDY TEAM	No.of Members 11 Period May.1977-Oct.1979 (30 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total M/M	Japan	Field				Conditions and Development Impacts: Conditions: Benefit is calculated as the difference of net profit of farm production between with and without project conditions Development Impacts: -Increase of rice production -Rise of farmers' income and living standards -Reduction of flood damage													
Total M/M	Japan	Field																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer																			
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>194,729 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>153,009</td> <td></td> </tr> </tbody> </table>		Total	194,729 (¥'000)	Contracted	153,009		3.PRINCIPAL SOURCE OF INFORMATION ①②													
	Total	194,729 (¥'000)																			
Contracted	153,009																				

和名 アブ・ガサバ地区農業開発計画

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

# PROJECT SUMMARY (F/S)

MEA SDN/S 302/89

Compiled Mar.1991  
Revised Mar.1992

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																						
2.NAME OF STUDY	Construction of the New White Nile Bridge	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>1)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td></td> <td>74,551</td> <td>28,911</td> <td>45,640</td> <td></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> </tbody> </table>			(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost		74,551	28,911	45,640			2)					3)			
(US\$1,000)	1)	Total Cost	Local Cost	Foreign Cost																					
	74,551	28,911	45,640																						
	2)																								
	3)																								
3.SECTOR	Transportation/Road	3.CONTENTS OF MAJOR PROJECT(S)	<p>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.</p> <p>Approach : Omdurman side = 2,285 m Khartoum side = 1,357 m</p> <p>Intersection : 2 at-grade intersections (Omdurman and Khartoum)</p>																						
4.REFERENCE NO.																									
5.TYPE OF STUDY	F/S																								
6.COUNTERPART AGENCY	Commissionerate of Engineering Affairs, National Capital Khartoum (NCK)																								
7.OBJECTIVES OF STUDY	To examine technical and economic feasibility of constructing a new bridge																								
8.DATE OF S/W	Aug.1988	Imp. Period:	Aug.1991-Mar.1995																						
9.CONSULTANT(S)	Nihon Koel Co., Ltd. Central Consultant, Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>17.70</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>EIRR2</td> <td></td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td></td> <td>FIRR3</td> </tr> </tbody> </table>			Feasibility:	EIRR1	17.70	FIRR1	Yes/No	EIRR2		FIRR2		EIRR3		FIRR3								
Feasibility:	EIRR1	17.70	FIRR1																						
Yes/No	EIRR2		FIRR2																						
	EIRR3		FIRR3																						
10.STUDY TEAM	<p>No.of Members 11</p> <p>Period Dec.1988-Mar.1990(15.25 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>59.96</td> <td>16.13</td> <td>43.83</td> </tr> </tbody> </table>	Total M/M	Japan	Field	59.96	16.13	43.83	<p>Conditions and Development Impacts:</p> <p>Development Impacts:</p> <ol style="list-style-type: none"> <li>To relieve traffic congestion in Greater Khartoum</li> <li>To allow heavy vehicles to pass over the White Nile</li> <li>To enlarge the traffic capacity over the White Nile</li> <li>To enable rehabilitation works of the existing bridge, by distributing traffic between the existing bridge and the new bridge</li> <li>To facilitate the urban development in Omdurman</li> <li>An appropriate town plan should be prepared before the completion of the bridge.</li> </ol>																	
Total M/M	Japan	Field																							
59.96	16.13	43.83																							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	- Topographic Survey - Subsoil Investigation - Traffic Survey	5.technical transfer	<p>Seven engineers were involved as Sudanese counterparts and technical transfer was fulfilled by on-the-job-training.</p> <p>Two counterparts were participated in JICA training program in F/Y 1989.</p>																						
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>247,869 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>217,440</td> </tr> </tbody> </table>		247,869 (¥'000)	Total		Contracted	217,440		<p>1.PRESENT STATUS</p> <p><input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting</p> <p><input type="radio"/> Completed <input checked="" type="radio"/> Delayed or Suspended</p> <p><input type="radio"/> Implementing <input type="checkbox"/> Discontinued or Cancelled</p> <p><input type="radio"/> Processing</p> <p>(Description)</p> <p>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.</p> <p>(FY1991 Overseas Survey)</p> <p>The JICA Office decided not to make an inquiry on this project.</p> <p>(FY1992 Overseas Survey)</p> <p>Waiting for the answer</p>																
	247,869 (¥'000)																								
Total																									
Contracted	217,440																								
			<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>1) Although the highest priority has been given to this project among NCK's projects, implementation is postponed due to political destabilization.</p>																						
			<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①②</p>																						

和名 新白ナイル橋建設計画

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

# PROJECT SUMMARY (F/S)

MEA SDN/A 302/91

Compiled Mar.1993  
Revised

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																	
1.COUNTRY	Sudan	1.SITE OR AREA	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.																		
2.NAME OF STUDY	Hurga and Nur El Din Pump Scheme Rehabilitation Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>29,268</td> <td>7,398</td> <td>21,951</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	29,268	7,398	21,951	2)				3)			
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	29,268	7,398	21,951																		
2)																					
3)																					
3.SECTOR	Agriculture/Irrigation, Drainage & Reclamation	3.CONTENTS OF MAJOR PROJECT(S)	<p>1. Pumping Station: Rated discharge 148sq.m/min./unit X 4sets Design head 24m</p> <p>2. Power Supply System: 33kv distribution line 9.5km</p> <p>3. Link Canal: 450m</p> <p>4. Canal System: New 12.75km Rehabilitation 89.51km Drain 57.35km</p> <p>5. O&amp;M Facilities: 7nos.</p>																		
4.REFERENCE NO.		<p>4.FEASIBILITY AND ITS ASSUMPTIONS</p> <p>Feasibility: Yes</p> <p>EIRR1) 13.80 FIRR1)</p> <p>EIRR2) FIRR2)</p> <p>EIRR3) FIRR3)</p> <p>Conditions and Development Impacts:</p> <p>Conditions:</p> <p>1. The economic useful life of the Project is assumed at 50 years.</p> <p>2. Economic conversion factor (ECF) of 0.41 was employed.</p> <p>3. Shadow wage rate (SWR) of 0.35 was employed.</p> <p>4. All costs are expressed as constant prices at 1990 level.</p> <p>Development Impacts:</p> <p>1. The benefits are expected to increase and reach the full benefit level of \$53,221,000 in the forth year after the completion of the project.</p> <p>2. Improvement of farmers' income.</p> <p>3. Vitalizing regional economic activities.</p> <p>4. Increase in employment opportunity</p> <p>5. Increase in women's chance of attending social activities.</p>	<p>1.PRESENT STATUS</p> <p> <input checked="" type="checkbox"/> Completed or in Progress                     <input type="checkbox"/> Promoting  <input type="checkbox"/> Completed  <input type="checkbox"/> Implementing  <input checked="" type="checkbox"/> Processing                 </p> <p> <input type="checkbox"/> Delayed or Suspended  <input type="checkbox"/> Discontinued or Cancelled                 </p>																		
5.TYPE OF STUDY	F/S		(Description)																		
6.COUNTERPART AGENCY	Ministry of Irrigation (MOI)		Basic design study was conducted from October 1991 to March 1992.																		
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.		(FY1992 Overseas Survey) Waiting for the answer																		
8.DATE OF S/W	Oct.1989	Imp. Period:																			
9.CONSULTANT(S)	Nihon Koei Co., Ltd. Kokusai Kougyo Co., Ltd.																				
10.STUDY TEAM	<p>No.of Members 10</p> <p>Period Nov.1990-Aug.1991 (9 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>39.26</td> <td>13.93</td> <td>25.33</td> </tr> </tbody> </table>	Total M/M	Japan	Field	39.26	13.93	25.33														
Total M/M	Japan	Field																			
39.26	13.93	25.33																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																					
12.EXPENDITURE	<p>Total 137,484 (¥'000)</p> <p>Contracted 126,107</p>	<p>5. TECHNICAL TRANSFER</p> <p>C/P trainee: 1 Person</p>																			
		<p>2.MAJOR REASONS FOR PRESENT STATUS</p>																			
		<p>3.PRINCIPAL SOURCE OF INFORMATION</p>																			

和名 フルガ・ヌルエルディンポンプ灌漑計画

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

# PROJECT SUMMARY (Basic Study)

MEA TUN/S 501/87

Compiled Mar.1990  
Revised Mar.1992

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																
2.NAME OF STUDY	Project de cartographie topographique	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1)</td> <td>2,937</td> <td>2,472</td> <td>465</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Total Cost	Local Cost	Foreign Cost	(US\$1,000)				1)	2,937	2,472	465	2)				<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
	Total Cost	Local Cost	Foreign Cost																		
(US\$1,000)																					
1)	2,937	2,472	465																		
2)																					
3.SECTOR	Social Infrastructures/Survey & Mapping	3.CONTENTES OF MAJOR PROJECT(S)	(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.																		
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	The maps will provide the basis for national development planning.																		
5.TYPE OF STUDY	Basic Study																				
6.COUNTERPART AGENCY	Ministry of Housing and Equipment																				
7.OBJECTIVES OF STUDY																					
8.DATE OF S/W	Nov.1984																				
9.CONSULTANT(S)	International Engineering Consultants Association																				
10.STUDY TEAM	No.of Members 33 Period Jun.1985-Feb.1988 (33 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>109.92</td> <td>21.49</td> <td>88.43</td> </tr> </tbody> </table>	Total M/M	Japan	Field	109.92	21.49	88.43	2.MAJOR REASONS FOR PRESENT STATUS													
Total M/M	Japan	Field																			
109.92	21.49	88.43																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	3.PRINCIPAL SOURCE OF INFORMATION																		
12.EXPENDITURE	Total 497,253 (¥'000) Contracted		①②																		

和名 地図作成事業

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

# PROJECT SUMMARY (F/S)

MEA TUN/S 301/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT					
1.COUNTRY	Tunisia	1.SITE OR AREA	Western part of Rades port, Tunisia		1.PRESENT STATUS <input type="checkbox"/> Completed or in Progress <input checked="" type="checkbox"/> Promoting <input type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled				
2.NAME OF STUDY	Construction of the Rades - La Goulette Connection Facility	2.PROJECT COST	Total Cost Local Cost Foreign Cost (US\$1,000) 1) 71,734 49,712 22,022 2) 3)						
3.SECTOR	Transportation/Road	3.CONTENT OF MAJOR PROJECT(S)	Construction of the highway deviation around the town of La Goulette and its extension towards Carthage. Cable stayed concrete bridge 75+150+75- 300m Access viaducts - 1,300m Approach road - 2,100m Access road for Voie Express - 2,000m Total length 5,700m						
4.REFERENCE NO.		5.TYPE OF STUDY	F/S		(Description) Formal request of loan from Tunisian Government was submitted to Japanese Government. (FY1991 Overseas Survey) The Tunisian Government is reconsidering of the priority projects in the 8th Five-Year Plan. The project was not modified. It depends on Tunisian economic circumstances. (FY1992 Overseas Survey) The D/D will be done by the contractor who undertakes construction works. Preparation of obtaining funds and construction are not yet started.				
6.COUNTERPART AGENCY	Ministry of Equipment and Housing	7.OBJECTIVES OF STUDY	Conduct a F/S on the construction of a fixed crossing between Rades and La Goulette						
8.DATE OF S/W	Mar.1989	9.CONULTANT(S)	Pacific Consultants International Nihon Koei Co., Ltd.						
10.STUDY TEAM	No.of Members 12 Period Aug.1989-Dec.1990(17 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>46.56</td> <td>17.96</td> <td>28.60</td> </tr> </tbody> </table>	Total M/M	Japan	Field	46.56	17.96	28.60	Imp. Period: 1991-1996 4.FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes EIRR1 15.00 FIRR1 EIRR2 FIRR2 EIRR3 FIRR3 Conditions and Development Impacts: Conditions: - Construction of the highway deviation around the town of La Goulette and its extension towards Carthage. - Supplementary borings. Development Impacts: - Balanced development of Tunis agglomeration. - Relief of traffic congestion in the city center.	2.MAJOR REASONS FOR PRESENT STATUS
Total M/M	Japan	Field							
46.56	17.96	28.60							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	- Traffic Survey - Boring Survey	5.technical transfer	1. Accepting of counterpart trainees. 2. Utilization of local consultants.		3.PRINCIPAL SOURCE OF INFORMATION				
12.EXPENDITURE	Total 179,909 (¥000) Contracted 160,000				①②				

和名 ラデス・グーレット橋建設計画

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

# PROJECT SUMMARY (M/P)

MEA TUN/A 101/91

Compiled Mar.1993  
Revised

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.		
2.NAME OF STUDY	Forest Management in the Mejerdanet Basin	2.PROJECT COST	<div> <div>(US\$1,000)</div> <div> <div>Total Cost</div> <div>Local Cost</div> <div>Foreign Cost</div> </div> </div>		
3.SECTOR	Forestry/Forestry & Forest Conservation	3.CONTENTES OF MAJOR PROJECT(S)	<div> <div>(1) The forest management plan was proposed for the Intensive Area by means of:</div> <div> <div>- Demarcation of national forests</div> <div>- Compilation of forest register &amp; volume table</div> <div>- Development of technology of reforestation and natural regeneration</div> <div>- Formulation of a management plan for the whole area based on the model plan</div> </div> <div>(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.</div> </div>		
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	<div> <div>(1) Conservation of the last remaining forest in Tunisia.</div> <div>(2) Sustainable forest production.</div> <div>(3) Effective use of the forest by the landuse plan.</div> <div>(4) Water resources conservation for drinking and irrigation in the low and middle areas of the watershed.</div> <div>(5) Optimization of the use of irrigation dams by sedimentation control.</div> <div>(6) Increase of agricultural land productivity based on soil conservation.</div> </div>		
5.TYPE OF STUDY	M/P	5.technical transfer	<div> <div>(1) To conduct the training of the C/P.</div> <div>(2) To conduct the aerial photo interpretation and transferring of its results upon to the topographical maps with the C/P.</div> </div>		
6.COUNTERPART AGENCY	Direction General of Forestry Ministry of Agriculture	6.PRINCIPAL SOURCE OF INFORMATION	①		
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	7.MAJOR REASONS FOR PRESENT STATUS	<div> <div>(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.</div> <div>(2) The forest conservation plan is not being implemented because of the budget limitation. The Tunisian government hopes to obtain 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.</div> </div>		
8.DATE OF S/W	Mar.1988	8.PRINCIPAL SOURCE OF INFORMATION	①		
9.CONSULTANT(S)	Japan Forest Technical Association	9.PRINCIPAL SOURCE OF INFORMATION	①		
10.STUDY TEAM	<div>No.of Members</div> <div>Period Dec.1988-May.1991(30 months)</div> <div> <div>Total M/M</div> <div>Japan</div> <div>Field</div> </div> <div> <div>94.86</div> <div>52.33</div> <div>42.53</div> </div>	10.PRINCIPAL SOURCE OF INFORMATION	①		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	No	11.PRINCIPAL SOURCE OF INFORMATION	①		
12.EXPENDITURE	<div>Total</div> <div>443,892 (¥000)</div> <div>Contracted</div> <div>410,475</div>	12.PRINCIPAL SOURCE OF INFORMATION	①		

和名 メジウルダ川流域森林管理計画

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

## PROJECT SUMMARY (M/P)

MEA TUR/S 101/85

Compiled Mar. 1988

Revised Mar. 1992

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	(US\$1,000) <table border="0"> <tr> <td></td> <td>Total Cost</td> <td>Local Cost</td> <td>Foreign Cost</td> </tr> <tr> <td>1)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </table>		Total Cost	Local Cost	Foreign Cost	1)				2)				(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.	
	Total Cost	Local Cost	Foreign Cost														
1)																	
2)																	
3.SECTOR	Administration/Environmental Problems	3.CONTENTES OF MAJOR PROJECT(S)	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														
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	To ease air pollution by well-organized fuel management														
5.TYPE OF STUDY	M/P																
6.COUNTERPART AGENCY	General Directorate of Environment, Prime Ministry, Republic of Turkey																
7.OBJECTIVES OF STUDY	Air pollution control	10.STUDY TEAM	2.MAJOR REASONS FOR PRESENT STATUS														
8.DATE OF S/W	Jul.1983	No.of Members	19	1) The project cost is too large.													
9.CONSULTANT(S)	Pacific Consultants International	Period	Nov.1984-Dec.1985(12.5 months)	2) The alternative of increasing the import of natural gas from USSR was chosen.													
		Total M/M	25.84														
		Japan															
		Field	25.84														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION													
12.EXPENDITURE		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 installation		①													
		Total	212,875 (¥'000)														
		Contracted	204,320														

和名 アンカラ市大気汚染対策計画

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



# PROJECT SUMMARY (F/S)

MEA TUR/A 301/89

Compiled Mar.1991  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	Turkey	1.SITE OR AREA	Central Kahraman Maras province (600 sq.km, population 75,000)														
2.NAME OF STUDY	Adatepe Irrigation Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>153,270</td> <td>46,940</td> <td>106,330</td> </tr> <tr> <td>US\$1=1,220.7TL in 1988</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	153,270	46,940	106,330	US\$1=1,220.7TL in 1988			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	153,270	46,940	106,330														
US\$1=1,220.7TL in 1988																	
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)	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)														
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1</th> <th>FIRR1</th> </tr> </thead> <tbody> <tr> <td>Yes/No</td> <td>15.00</td> <td>12.40</td> </tr> <tr> <td></td> <td>EIRR2</td> <td>FIRR2</td> </tr> <tr> <td></td> <td>EIRR3</td> <td>FIRR3</td> </tr> </tbody> </table>			Feasibility:	EIRR1	FIRR1	Yes/No	15.00	12.40		EIRR2	FIRR2		EIRR3	FIRR3
Feasibility:	EIRR1	FIRR1															
Yes/No	15.00	12.40															
	EIRR2	FIRR2															
	EIRR3	FIRR3															
5.TYPE OF STUDY	F/S	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.															
6.COUNTERPART AGENCY	Devlet Su Isleri (DSI), or General Directorate of State Hydraulic Works	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															
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.	Imp. Period: Jan.1991-Dec.1998															
8.DATE OF S/W	Jun.1988	2.MAJOR REASONS FOR PRESENT STATUS Described as above.															
9.CONSULTANT(S)	Chuo Kaihatsu International Corp. Naigai Engineering Co., Ltd.	3.PRINCIPAL SOURCE OF INFORMATION ①															
10.STUDY TEAM	No.of Members 9 Period Sep.1988-Dec.1989(6 months) <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>58.00</td> <td>20.50</td> <td>37.50</td> </tr> </tbody> </table>	Total M/M	Japan	Field	58.00	20.50	37.50	5.technical transfer 1)Training in Japan (3 persons); 2)OJT; and 3)Attendance at International Conference on Irrigation and Drainage in Tokyo.									
Total M/M	Japan	Field															
58.00	20.50	37.50															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	Topo-mapping Test drilling(2 sites)																
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>Contracted</th> </tr> </thead> <tbody> <tr> <td>(¥'000)</td> <td>183,836</td> <td>166,184</td> </tr> </tbody> </table>		Total	Contracted	(¥'000)	183,836	166,184										
	Total	Contracted															
(¥'000)	183,836	166,184															

和名 アダテペ灌漑開発計画

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

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

MEA TUR/S 201A/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDY RESULTS												
1.COUNTRY	Turkey	1.SITE OR AREA	Filyos		1.PRESENT STATUS <input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued											
2.NAME OF STUDY	Development Project of Filyos Port	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>1,470,000</td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	1,470,000			2)		
(US\$1,000)	Total Cost	Local Cost	Foreign Cost													
1)	1,470,000															
2)																
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)	<p>(Description)</p> <p>Implementation of Filyos Port project was postponed, while expansion of Iskender Port will be done in order to handle expected increasing cargo volume.</p> <p>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.)</p> <p>(FY1992 Overseas Survey) Waiting for the answer</p>													
4.REFERENCE NO.																
5.TYPE OF STUDY	M/P+ (F/S)															
6.COUNTERPART AGENCY	DLH, General Directorate of Railways, Ports and Airports Construction, Ministry of Transport															
7.OBJECTIVES OF STUDY	<p>1) To prepare a port development strategy for the Ankara Metropolitan Area and its adjacent areas;</p> <p>2) To formulate a master plan and to examine the feasibility of a possible new port</p>	<p>The Study prepared a port development strategy to improve cargo transport efficiency to and from the Ankara Metropolitan Area (AMA) and its adjacent areas, formulated a two-stage master plan with the target year of 2010, and analyzed the feasibility of the short-term plan (up to 2000) of developing a possible new port (Filyos Port).</p> <p>Development Plan (through 2010):</p> <p>1) Container terminal: depth -12m, 4 berths, 1,000m (for 270,000TEUs)</p> <p>2) General cargo berths: depth from -10 to -12m, 5 berths, 1,150m (for 1.21 million tons)</p> <p>3) Coal &amp; ores berth: depth -20m, 400m (for 5 million tons)</p> <p>4) Grain berth: depth -12m, 1,000m (for 150,000 tons)</p> <p>5) Steel berth: depth from -10 to -12m, 1,000m</p> <p>6) Other facilities: Breakwater 2,550m, and Cargo handling machinery (container cranes, unloaders, transfer cranes, fork lifts, etc.)</p>														
8.DATE OF S/W	Dec.1989	4.CONDITIONS AND DEVELOPMENT IMPACTS		2.MAJOR REASONS FOR PRESENT STATUS												
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Port Consultants Co., Ltd.	<p>Conditions:</p> <p>Economic growth rate: 5 - 7%</p> <p>Cargo Demand in 2010: Container cargo 270,000TEUs ; Others 15,730,000 tons</p> <p>Development Impacts:</p> <p>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.</p> <p>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 stimulate industrial investment, and thus this will expedite the development of the regions.</p> <p>Possible industries locatable in the first stage:</p> <p>(1) food processing, (2) wood processing, and (3) shipbuilding &amp; repairing</p> <p>Possible industries locatable in the second stage:</p> <p>(1) iron &amp; steel, (2) processing of local resources depending on thermal electric power, and (3) petroleum industry</p>														
10.STUDY TEAM	<p>No.of Members 12</p> <p>Period Nov.1989-Feb.1991(15 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>86.28</td> <td>40.39</td> <td>45.89</td> </tr> </tbody> </table>	Total M/M	Japan	Field	86.28	40.39	45.89	5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION						
Total M/M	Japan	Field														
86.28	40.39	45.89														
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>- Wave observation</p> <p>- Sounding</p> <p>- Boring</p>	<p>①</p>														
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>329,380 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td>326,800</td> </tr> </tbody> </table>		329,380 (¥'000)	Total		Contracted	326,800	<p>①</p>								
	329,380 (¥'000)															
Total																
Contracted	326,800															

和名 フィリョス港建設計画

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

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

MEA TUR/S 201B/90

Compiled Mar.1992  
Revised Mar.1993

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT																
1.COUNTRY	Turkey	1.SITE OR AREA	Filyos																	
2.NAME OF STUDY	Development Project of Filyos Port	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>410,000</td> <td>140,000</td> <td>270,000</td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	410,000	140,000	270,000							
	Total Cost	Local Cost	Foreign Cost																	
(US\$1,000)	410,000	140,000	270,000																	
3.SECTOR	Transportation/Port	3.CONTENTS OF MAJOR PROJECT(S)	<p>The Study formulated a two-stage master plan with the target year of 2010, and analyzed the feasibility of the short-term plan (1st Stage up to 2000) of developing a new port (Filyos Port).</p> <p>1) Multi-purpose terminal (depth -12m, 600m) Cargo handling capacity: container cargo 97,000TEUs others 6.32 million tons, of which 5.5 million tons connected to the Steel Mill</p> <p>2) Breakwater (500m)</p> <p>3) Cargo handling machinery</p>																	
4.REFERENCE NO.		4.FEASIBILITY AND ITS ASSUMPTIONS	<table border="1"> <thead> <tr> <th>Feasibility:</th> <th>EIRR1)</th> <th>21.00</th> <th>FIRR1)</th> <th>5.70</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>EIRR2)</td> <td></td> <td>FIRR2)</td> <td></td> </tr> <tr> <td></td> <td>EIRR3)</td> <td></td> <td>FIRR3)</td> <td></td> </tr> </tbody> </table>			Feasibility:	EIRR1)	21.00	FIRR1)	5.70	Yes	EIRR2)		FIRR2)			EIRR3)		FIRR3)	
Feasibility:	EIRR1)	21.00	FIRR1)	5.70																
Yes	EIRR2)		FIRR2)																	
	EIRR3)		FIRR3)																	
5.TYPE OF STUDY	(M/P)+F/S	<p>Conditions and Development Impacts:</p> <p>Conditions: Economic growth rate: 5 - 7% Cargo Demand in 2000: Container cargo 97,000TEUs ; Others 6,320,000 tons</p> <p>Development Impacts: 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 stimulate 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 &amp; repairing</p>																		
6.COUNTERPART AGENCY	DLH, General Directorate of Railways, Ports and Airports Construction, Ministry of Transport	<p>10.STUDY TEAM</p> <p>No. of Members 12</p> <p>Period Nov.1989-Feb.1991 (15 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>86.28</td> <td>40.39</td> <td>45.89</td> </tr> </tbody> </table>				Total M/M	Japan	Field	86.28	40.39	45.89									
Total M/M	Japan	Field																		
86.28	40.39	45.89																		
7.OBJECTIVES OF STUDY	<p>1) To prepare a port development strategy for the Ankara Metropolitan Area and its adjacent areas;</p> <p>2) To formulate a master plan and to examine the feasibility of a possible new port</p>	<p>2.MAJOR REASONS FOR PRESENT STATUS</p> <p>1) Expansion of existing port was chosen for handling increasing cargo volume.</p> <p>2) A New Port Project requires a large amount of cost and time.</p>																		
8.DATE OF S/W	Dec.1989	<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①</p>																		
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Japan Japan Port Consultants Co., Ltd.	<p>5.technical transfer</p> <p>OUT of counterparts during the study Seminars on port planning, economic &amp; financial analysis, etc.</p>																		
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	<p>- Wave observation</p> <p>- Sounding</p> <p>- Boring</p>																			
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>329,380 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>326,800</td> <td></td> </tr> </tbody> </table>		Total	329,380 (¥'000)	Contracted	326,800														
	Total	329,380 (¥'000)																		
Contracted	326,800																			

和名 フィリョス港建設計画

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

# PROJECT SUMMARY (F/S)

MEA ARE/S 301/81

Compiled Mar.1986  
Revised Mar.1992

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 (old name: Wadi Shimal Basin, Fvjeirah Emirate, UAE)																		
2.NAME OF STUDY	Wadi al Bassierah Basin Water Resources Development Project	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>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> </tbody> </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																				
3.SECTOR	Social Infrastructures/Water Resource Development	3.CONTENT(S) OF MAJOR PROJECT(S)	<p>1.Construction of a dam Dam height 19.5m; Crest length 900m; Reservoir Cap. 2.5 million cu.m</p> <p>2.Construction of Al Fay pond Height 7.5m; Crest length 2,000m; Reservoir Cap. 1.5 million cu.m</p> <p>3.Construction of an irrigation facility Plan A Vegetables 75ha Plan B Fruits 65ha Plan C Vegetables 30ha Fruits 40ha</p>																		
4.REFERENCE NO.		<p>(Description)</p> <p>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.</p> <p>(FY1991 Overseas Survey)</p> <p>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.</p>																			
5.TYPE OF STUDY	F/S																				
6.COUNTERPART AGENCY	Ministry of Agriculture and Fisheries																				
7.OBJECTIVES OF STUDY	Storing flood water in the underground cistern for irrigation and household service																				
8.DATE OF S/W	Dec.1979	Imp. Period:	Apr.1981-Jun.1983																		
9.CONSULTANT(S)	Sanyu Consultants Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	<table border="1"> <tbody> <tr> <td>EIRR1)</td> <td>FIRR1)</td> </tr> <tr> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </tbody> </table>		EIRR1)	FIRR1)	EIRR2)	FIRR2)	EIRR3)	FIRR3)										
EIRR1)	FIRR1)																				
EIRR2)	FIRR2)																				
EIRR3)	FIRR3)																				
10.STUDY TEAM	<p>No.of Members 11</p> <p>Period Dec.1979-Dec.1981 (24 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>41.27</td> <td>21.04</td> <td>20.23</td> </tr> </tbody> </table>	Total M/M	Japan	Field	41.27	21.04	20.23	<p>Conditions and Development Impacts:</p> <p>Development Impacts:</p> <p>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.</p> <p>2)Prevention of damages from flood and control of water quality in the existing wells(protection from sea water)</p> <p>3)Improvement of living circumstances by the construction of an about 70ha farm and production of fresh vegetables</p> <p>-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 1.3-6.4DH.</p> <p>-No IRR analysis was made.</p>													
Total M/M	Japan	Field																			
41.27	21.04	20.23																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer	<p>No benefit of technical transfer for UAE was found, since most of counter partners are temporary immigrants from Egypt, Lebanon, etc.</p>																		
12.EXPENDITURE	<table border="1"> <tbody> <tr> <td>Total</td> <td>240,115 (¥'000)</td> </tr> <tr> <td>Contracted</td> <td>211,458</td> </tr> </tbody> </table>	Total	240,115 (¥'000)	Contracted	211,458	<p>2.MAJOR REASONS FOR PRESENT STATUS</p>															
Total	240,115 (¥'000)																				
Contracted	211,458																				
		<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①③</p>																			

和名 水資源開発計画

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

# PROJECT SUMMARY (D/D)

MEA ARE/S 401/81

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT				
1.COUNTRY	United Arab Emirat	1.SITE OR AREA	<div> <div> <div>1) 7,191</div> <div>2)</div> <div>3)</div> </div> <div> <div>Total Cost</div> <div>Local Cost</div> <div>Foreign Cost</div> </div> </div>					
2.NAME OF STUDY	Al Bassierah Dam Project	2.PROJECT COST						
3.SECTOR	Social Infrastructures/Water Resource Development	3.CONTENT OF MAJOR PROJECT(S)	<div> <div> <div>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.</div> <div>2. UAE sounded in 1989 the intent of the Japanese Government, desiring to revive the project, but received a negative response.</div> </div> <div>(FY1991 Overseas Survey)</div> <div>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.</div> </div>					
4.REFERENCE NO.		1.Al Bassierah Dam Dam Height 19.5m; Crest Length 900m; Reservoir Cap. 2.5 million cu.m						
5.TYPE OF STUDY	D/D	2.Al Fay Pond(Ground water Recharge Facilities) Cap. 1.5 million cu.m						
6.COUNTERPART AGENCY	Ministry of Agriculture and Fisheries	3.Irrigation Facility and Farm 75ha						
7.OBJECTIVES OF STUDY	Recharging ground water with flood water for effective use of water resources to irrigation and household service							
8.DATE OF S/W	Mar.1981	Imp. Period: Nov.1982-Jun.1983						
9.CONSULTANT(S)	Sanyu Consultants Inc.	4.FEASIBILITY AND ITS ASSUMPTIONS						
		Feasibility: Yes/No	EIRR1) EIRR2) EIRR3)	FIRR1) FIRR2) FIRR3)				
		<div> <div>Conditions and Development Impacts:</div> <div>Development Impacts:</div> <div>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.</div> <div>2) Prevention of damages from flood and control of water quality in the existing wells (protection from sea water)</div> <div>3) Improvement of living circumstances by the construction of an about 70 ha-farm and production of fresh vegetables.</div> </div>						
10.STUDY TEAM	<div>No.of Members 8</div> <div>Period Apr.1981-Feb.1982 (9.5 months)</div> <div> <div>Total M/M</div> <div>20.60</div> </div> <div> <div>Japan</div> <div>14.10</div> </div> <div> <div>Field</div> <div>6.50</div> </div>							
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY								
12.EXPENDITURE		5. TECHNICAL TRANSFER						
		<div> <div>1. Transfer of geological investigation method to local consultants.</div> <div>2. Supply of equipment and guidance for electrical investigation technology.</div> </div>						
		3.PRINCIPAL SOURCE OF INFORMATION						
		①③						

和名 アル・バセイラダム建設計画実施設計

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

# PROJECT SUMMARY (D/D)

MEA ARE/A 401/85

Compiled Mar.1990  
Revised Mar.1992

I. OUTLINE OF STUDY		II. SUMMARY OF STUDY RESULTS		III. PRESENT STATUS OF STUDIED PROJECT													
1.COUNTRY	United Arab Emirates	1.SITE OR AREA	Umm Al Queen, located 50km north of Dubai on the Gulf of Arabia														
2.NAME OF STUDY	Mariculture Center	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>996</td> <td>996</td> <td></td> </tr> <tr> <td>US\$1=203yen</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	996	996		US\$1=203yen			
	Total Cost	Local Cost	Foreign Cost														
(US\$1,000)	996	996															
US\$1=203yen																	
3.SECTOR	Fisheries/Fisheries	3.CONTENTS OF MAJOR PROJECT(S)	<p>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:</p> <ul style="list-style-type: none"> <li>Aquarium</li> <li>Filtration Facility</li> <li>Laboratory</li> <li>Work room</li> <li>Bait preparation room and water tank</li> <li>Lodging</li> <li>Culture ponds(4)</li> </ul>														
4.REFERENCE NO.		<p>(Description)</p> <p>(FY1991 Overseas Survey)</p> <p>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.</p> <p>The research program at the Center has been diverse, covering from mariculture to R &amp; 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.</p>															
5.TYPE OF STUDY	D/D																
6.COUNTERPART AGENCY	Ministry of Agriculture and Fisheries																
7.OBJECTIVES OF STUDY																	
8.DATE OF S/W	May.1980																
9.CONSULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility: Yes/No	EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)													
10.STUDY TEAM	<p>No.of Members 6</p> <p>Period Jul.1980-Jul.1980(0.7 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>21.00</td> <td>15.00</td> <td>6.00</td> </tr> </tbody> </table>	Total M/M	Japan	Field	21.00	15.00	6.00	<p>Conditions and Development Impacts:</p> <p>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.</p>		2.MAJOR REASONS FOR PRESENT STATUS							
Total M/M	Japan	Field															
21.00	15.00	6.00															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY		5.technical transfer		3.PRINCIPAL SOURCE OF INFORMATION													
12.EXPENDITURE	<p>Total 202,224 (¥'000)</p> <p>Contracted</p>	<p>- Dispatching marine specialists</p> <p>- Accepting trainee (1) JICA</p>		①③													

和名 水産増養殖センター建設計画

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

# 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.														
2.NAME OF STUDY	Hajjah Province Integrated Rural Development	2.PROJECT COST	<table border="1"> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> <tr> <td>1) US\$1-4.51YR.</td> <td>56,000</td> <td></td> <td></td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </table>			(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1) US\$1-4.51YR.	56,000			2)			
(US\$1,000)	Total Cost	Local Cost	Foreign Cost														
1) US\$1-4.51YR.	56,000																
2)																	
3.SECTOR	Agriculture/General	3.CONTENTS OF MAJOR PROJECT(S)	<p>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.</p> <p>* The cost is in 1979 prices.</p>														
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	<p>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.</p>														
5.TYPE OF STUDY	M/P	5.technical transfer	<p>- Exchange and transfer of knowledge and technology by living and working with counterparts during the study period.                  - Counterpart training in Japan.</p>														
6.COUNTERPART AGENCY	Central Planning Organization, Ministry of Agriculture, Ministry of Public Works	6.PRINCIPAL SOURCE OF INFORMATION	①③														
7.OBJECTIVES OF STUDY		7.MAJOR REASONS FOR PRESENT STATUS															
8.DATE OF S/W	Aug.1978	8.PRINCIPAL SOURCE OF INFORMATION	①③														
9.CONSULTANT(S)	Agricultural Development Consultants Association	9.PRINCIPAL SOURCE OF INFORMATION	①③														
10.STUDY TEAM	<p>No.of Members 22                  Period Dec.1978-Mar.1980 (16 months)</p> <table border="1"> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> <tr> <td>83.20</td> <td>57.33</td> <td>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																	
12.EXPENDITURE	<table border="1"> <tr> <th>Total</th> <th>256,701 (¥'000)</th> </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 ハッジャ州農業総合開発計画

{M/P,M/P+(F/S),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	Hajja(5site), Al-Mahwee(4sites), Sana'a(4sites), Hodeidah(3sites), Taiz(10sites)																		
2.NAME OF STUDY	Rural Water Supply Project Part 2	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>(US\$1,000)</td> <td>18,140</td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	(US\$1,000)	18,140										
	Total Cost	Local Cost	Foreign Cost																		
(US\$1,000)	18,140																				
3.SECTOR	Public Utilities/Water Supply	3.CONTENT OF MAJOR PROJECT(S)	<table border="1"> <thead> <tr> <th></th> <th>60m-300m</th> <th>26 sites</th> <th>Submersible pumps</th> </tr> </thead> <tbody> <tr> <td>Deep well construction</td> <td>19kw-30kw</td> <td>26 sites</td> <td></td> </tr> <tr> <td>Water storage tanks</td> <td>948ton-10ton</td> <td>26 sites</td> <td></td> </tr> <tr> <td>Pipeline</td> <td>Total: 175.2km for</td> <td>26 sites</td> <td></td> </tr> </tbody> </table>				60m-300m	26 sites	Submersible pumps	Deep well construction	19kw-30kw	26 sites		Water storage tanks	948ton-10ton	26 sites		Pipeline	Total: 175.2km for	26 sites	
	60m-300m	26 sites	Submersible pumps																		
Deep well construction	19kw-30kw	26 sites																			
Water storage tanks	948ton-10ton	26 sites																			
Pipeline	Total: 175.2km for	26 sites																			
4.REFERENCE NO.		<p>(Description)</p> <p>The project was implemented by Japanese grant as follows.</p> <p>1981 Nov. E/N signed (500 million yen)</p> <p>1982 Jun. E/N (500million yen)</p> <p>1983 Jul. E/N (600 million yen)</p> <p>1985 Mar. D/D completed</p> <p>1986 Oct.-1987 Mar. A basic design study on rural water supply development implemented.</p> <p>1987 May -1988 Feb. D/D and S/V implemented</p> <p>1987 Apr. Grant E/N (319 million yen)</p> <p>1987 Jul. E/N (915 million yen)</p> <p>1988 Sep. E/N (916 million yen)</p> <p>(FY1991 Overseas Survey)</p> <p>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.</p>																			
5.TYPE OF STUDY	F/S																				
6.COUNTERPART AGENCY	Rural Water Supply Department, Ministry of Public Works																				
7.OBJECTIVES OF STUDY	Hydrology Hydrzulis Geology																				
8.DATE OF S/W	Dec.1978	Imp. Period:	Jan.1982																		
9.CONSULTANT(S)	Pacific Consultants International	4.FEASIBILITY AND ITS ASSUMPTIONS	Feasibility:	<table border="1"> <thead> <tr> <th>EIRR1)</th> <th>FIRR1)</th> </tr> </thead> <tbody> <tr> <td>EIRR2)</td> <td>FIRR2)</td> </tr> <tr> <td>EIRR3)</td> <td>FIRR3)</td> </tr> </tbody> </table>		EIRR1)	FIRR1)	EIRR2)	FIRR2)	EIRR3)	FIRR3)										
EIRR1)	FIRR1)																				
EIRR2)	FIRR2)																				
EIRR3)	FIRR3)																				
10.STUDY TEAM	<p>No.of Members 8</p> <p>Period Sep.1979-May.1980(8 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>39.60</td> <td>19.00</td> <td>20.60</td> </tr> </tbody> </table>	Total M/M	Japan	Field	39.60	19.00	20.60	<p>Conditions and Development Impacts:</p> <p>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.</p> <p>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.</p>													
Total M/M	Japan	Field																			
39.60	19.00	20.60																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	none	5.technical transfer	<p>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 require long-term provision of parts and</p>																		
12.EXPENDITURE	<table border="1"> <thead> <tr> <th>Total</th> <th>109,604 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>98,313</td> </tr> </tbody> </table>	Total	109,604 (¥'000)	Contracted	98,313	<p>3.PRINCIPAL SOURCE OF INFORMATION</p> <p>①③</p>															
Total	109,604 (¥'000)																				
Contracted	98,313																				
2.MAJOR REASONS FOR PRESENT STATUS		<p>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.</p>																			

和名 地方水道計画 (パート2)

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



# PROJECT SUMMARY (F/S)

Compiled Mar.1986  
Revised Mar.1992

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 checked="" type="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Delayed or Suspended <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	(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 Construction Container berth 250m Dredging channels 4.72 million cu.m RO/RO berth 1unit 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 1unit (electricity, lighting, water supply & drainage) Building 1unit Cargo handling equip. 1set					
3.SECTOR	Transportation/Port										
4.REFERENCE NO.											
5.TYPE OF STUDY	F/S					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.					
6.COUNTERPART AGENCY	Ministry of Public Works										
7.OBJECTIVES OF STUDY	Formulation of M/P and Urgent Implement Plan										
8.DATE OF S/W	Oct.1981	Imp. Period: 1982-1986				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.					
9.CONSULTANT(S)	Overseas Coastal Area Development Institute of Jaiso-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)  <table border="1"> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> <tr> <td>60.73</td> <td>41.51</td> <td>19.22</td> </tr> </table>	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.	
Total M/M	Japan	Field									
60.73	41.51	19.22									
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY	none	5.technical transfer		- Counterpart training in Japan - Seminar and OJT		3.PRINCIPAL SOURCE OF INFORMATION ①③④					
12.EXPENDITURE	Total 164,390 (¥'000) Contracted 151,107										

和名 ホデイダ港第7バース建設計画

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

## PROJECT SUMMARY (F/S)

MEA YEM/S 302/84

Compiled Mar. 1988  
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 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="radio"/> Completed <input type="radio"/> Implementing <input type="radio"/> Processing <input type="checkbox"/> Delayed or Suspended <input type="checkbox"/> Discontinued or Cancelled	(Description)  (FY1991 Overseas Survey) At the stage of the basic design, the project components were changed as follows. <table border="1"> <thead> <tr> <th></th> <th>F/S</th> <th>Basic Design</th> </tr> </thead> <tbody> <tr> <td>Base stations</td> <td>6</td> <td>5</td> </tr> <tr> <td>Repeater Sts.</td> <td>38</td> <td>32</td> </tr> <tr> <td>Subscriber Sts.</td> <td>436</td> <td></td> </tr> <tr> <td></td> <td>Phase 1</td> <td>100 (Sana'a)</td> </tr> <tr> <td></td> <td></td> <td>18 (Dhamar)</td> </tr> <tr> <td></td> <td></td> <td>20</td> </tr> <tr> <td></td> <td>Phase 2</td> <td>20 (Ibb)</td> </tr> <tr> <td></td> <td></td> <td>20 (Taizz)</td> </tr> <tr> <td></td> <td></td> <td>20 (Hudaydah)</td> </tr> <tr> <td></td> <td></td> <td>2 (Sana'a)</td> </tr> </tbody> </table>		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)
	F/S	Basic Design																																						
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		20 (Taizz)																																						
		20 (Hudaydah)																																						
		2 (Sana'a)																																						
2. NAME OF STUDY Rural Telecommunications Network		2. PROJECT COST (US\$1,000)																																						
3. SECTOR Communications & Broadcasting/Telecommunication		3. CONTENTS OF MAJOR PROJECT(S) 1) Contents a) Composed of 6 sub-rural networks b) Digital Radio Concentrator System (DRCS) to each sub-rural network c) Provision of subscriber lines of each sub-rural network in the existing switch or line concentrator of sub-rural network 2) Facilities - Base station: 6 sites (23 base units) - Repeater station: 38 sites (55 repeater units) - Subscriber station: 436 sites																																						
4. REFERENCE NO.		4. FEASIBILITY AND ITS ASSUMPTIONS Feasibility: Yes EIRR1) 11.91 FIRR1) 7.43 EIRR2) EIRR3) FIRR2) FIRR3)																																						
5. TYPE OF STUDY F/S		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.																																						
6. COUNTERPART AGENCY Ministry of Communication and Transport (MOC), Public Telecommunications Corporation Headquarters (PTC)		5. TECHNICAL TRANSFER 1) Acceptance of a trainee; one counterpart staff was invited to Japan, and training was conducted for the project concerned. 2) On the Job Training for counterparts																																						
7. OBJECTIVES OF STUDY Feasibility study on rural telecommunications network		6. MAJOR REASONS FOR PRESENT STATUS 1) Effectiveness 2) High priority																																						
8. DATE OF S/W Jun. 1984		7. PRINCIPAL SOURCE OF INFORMATION ①③																																						
9. CONSULTANT(S) Nippon Telecommunication Consulting Co., Ltd.		10. STUDY TEAM No. of Members 12 Period Aug. 1984-Mar. 1985 (7 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>39.94</td> <td>18.34</td> <td>21.60</td> </tr> </tbody> </table>				Total M/M	Japan	Field	39.94	18.34	21.60																													
Total M/M	Japan	Field																																						
39.94	18.34	21.60																																						
11. ASSOCIATED AND/OR SUBCONTRACTED STUDY		12. EXPENDITURE Total 115,983 (¥000) Contracted 103,482																																						

和名 地方電気通信網整備計画

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

# PROJECT SUMMARY (M/P)

MEA YEM/S 101/88

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	Sana'a, Taizz, Hudayda		1.PRESENT STATUS												
2.NAME OF STUDY	Urban Transport Study	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>22,047</td> <td>4,659</td> <td>17,388</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	22,047	4,659	17,388	2)				<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
(US\$1,000)	Total Cost	Local Cost	Foreign Cost														
1)	22,047	4,659	17,388														
2)																	
3.SECTOR	Transportation/Urban Transportation	3.CONTENTS OF MAJOR PROJECT(S)	(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.														
4.REFERENCE NO.		4.CONDITIONS AND DEVELOPMENT IMPACTS	1) Improvement of interchanges 2) Expansion and replacement of the signal system 3) Construction of fences, sign boards, etc.  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.														
5.TYPE OF STUDY	M/P	5.technical transfer	Acceptance of a trainee (JICA counterpart training program)														
6.COUNTERPART AGENCY	Dept. of Planning, Ministry of Cities and Housing	12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>Total</th> <th>188,632 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Contracted</td> <td>160,783</td> <td></td> </tr> </tbody> </table>				Total	188,632 (¥'000)	Contracted	160,783							
	Total	188,632 (¥'000)															
Contracted	160,783																
7.OBJECTIVES OF STUDY	Formulation of a short-term plan for urban transport development	2.MAJOR REASONS FOR PRESENT STATUS															
8.DATE OF S/W	Jun.1987	3.PRINCIPAL SOURCE OF INFORMATION	①③														
9.CONSULTANT(S)	Pacific Consultants International Yachiyo Engineering Co., Ltd.																
10.STUDY TEAM	No. of Members    9 Period   Oct.1987-Nov.1988(13 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>51.20</td> <td>7.90</td> <td>34.20</td> </tr> </tbody> </table>	Total M/M	Japan	Field	51.20	7.90	34.20										
Total M/M	Japan	Field															
51.20	7.90	34.20															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																	

和名 都市交通計画

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

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

MEA YEM/S 201A/89

Compiled Mar.1991  
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	Ma'alla, Tawahi, Crater and Khormaksar Districts in Aden. Area: 2,132 ha, Population: 151,602 (1988)		1.PRESENT STATUS												
2.NAME OF STUDY	Improvement of Ma'alla and Tawahi Sewerage System in Aden	2.PROJECT COST	<table border="1"> <thead> <tr> <th>(US\$1,000)</th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1)</td> <td>70,287</td> <td>9,805</td> <td>60,482</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		(US\$1,000)	Total Cost	Local Cost	Foreign Cost	1)	70,287	9,805	60,482	2)				<input checked="" type="checkbox"/> In Progress or In Use <input type="checkbox"/> Delayed <input type="checkbox"/> Discontinued
(US\$1,000)	Total Cost	Local Cost	Foreign Cost														
1)	70,287	9,805	60,482														
2)																	
3.SECTOR	Public Utilities/Sewerage	3.CONTENTES OF MAJOR PROJECT(S)	(Description) A feasibility study on Ma'alla and Tawahi sewerage system was subsequently undertaken.  (FY1991 Overseas Survey) 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).														
4.REFERENCE NO.		Construction of 4 major pumping stations (Ma'alla, Tawahi, Crater and Khormaksar). Construction of force mains (dia. 400/700mm, total length 23km) connecting these pumping stations to the treatment plant. Construction of a treatment plant (oxidation pond process, capacity 48,800 cu.m./d). Construction of sewer pipes, total length 3km. Rehabilitation of 20 existing pumping stations. Improvement of sweeper-passages (open channel sewerage) into ordinary sewerage at 131 locations.															
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	4.CONDITIONS AND DEVELOPMENT IMPACTS	Elimination of water pollution in the Inner Harbor, which is the main port of the national capital of Aden. Improvement of living condition in the four districts. Creation of green belts by reuse of treated sewerage. Improvement of public health and environment conditions in the whole Greater Aden.														
9.CONSULTANT(S)	Tokyo Engineering Consultants Co., Ltd.	5.technical transfer 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.	2.MAJOR REASONS FOR PRESENT STATUS														
10.STUDY TEAM	No.of Members 10 Period Nov.1988-Jan.1990 (15 months)  <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>67.56</td> <td>22.97</td> <td>44.59</td> </tr> </tbody> </table>		Total M/M	Japan	Field	67.56	22.97	44.59									
Total M/M	Japan		Field														
67.56	22.97	44.59															
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																	
12.EXPENDITURE	<table border="1"> <thead> <tr> <th></th> <th>227,703 (¥'000)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> </tr> <tr> <td>Contracted</td> <td></td> </tr> </tbody> </table>		227,703 (¥'000)	Total		Contracted		3.PRINCIPAL SOURCE OF INFORMATION	①③								
	227,703 (¥'000)																
Total																	
Contracted																	

和名 アデン市マールラ地区・タワヒ地区下水道施設改善計画

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

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

MEA YEM/S 201B/89

Compiled Mar.1991  
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	Ma'alla and Tawahi Districts in Aden. Area: 485 ha, Population: 72,219 (1988)																		
2.NAME OF STUDY	Improvement of Ma'alla and Tawahi Sewerage System in Aden	2.PROJECT COST	<table border="1"> <thead> <tr> <th></th> <th>Total Cost</th> <th>Local Cost</th> <th>Foreign Cost</th> </tr> </thead> <tbody> <tr> <td>1) (US\$1,000)</td> <td>39,808</td> <td>4,648</td> <td>35,160</td> </tr> <tr> <td>2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Cost	Local Cost	Foreign Cost	1) (US\$1,000)	39,808	4,648	35,160	2)				3)			
	Total Cost	Local Cost	Foreign Cost																		
1) (US\$1,000)	39,808	4,648	35,160																		
2)																					
3)																					
3.SECTOR	Public Utilities/Sewerage	3.CONTENTS OF MAJOR PROJECT(S)	<p>Construction of gravity sewers, dia. 200-600 mm, length 2,534m, rehabilitation of the four small pumping stations and improvement of sweeper passages, length 5,215 m in the two districts. Construction of a sewage treatment plant, stabilization pond, capacity 16,300 cu.m/d, two pumping stations and force mains, dia. 400-700 mm, length 13,090 m.</p>																		
4.REFERENCE NO.		<p>4.FEASIBILITY AND ITS ASSUMPTIONS</p> <p>Feasibility: Yes/No</p> <p>EIRR1) FIRR1) EIRR2) FIRR2) EIRR3) FIRR3)</p> <p>Conditions and Development Impacts: Elimination of water pollution in the Inner Harbor, which is the main port of the national capital of Aden. Improvement of living condition in the two districts. Creation of green belts by use of treated effluent. Improvement of public health and environment conditions in the whole Greater Aden.</p>	<p>1.PRESENT STATUS</p> <p><input type="checkbox"/> Completed or in Progress <input type="checkbox"/> Promoting</p> <p><input type="radio"/> Completed <input checked="" type="radio"/> Delayed or Suspended</p> <p><input type="radio"/> Implementing <input type="checkbox"/> Discontinued or Cancelled</p> <p><input type="radio"/> Processing</p>																		
5.TYPE OF STUDY	(M/P) + F/S		(Description)																		
6.COUNTERPART AGENCY	General Directorate for Local Government (O & M Aden Municipality)		<p>(FY1991 Overseas Survey)</p> <p>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.</p>																		
7.OBJECTIVES OF STUDY	Improvement of the existing sewerage system and provision of sewerage treatment																				
8.DATE OF S/W	Jul.1988	Imp. Period:	.1990-.1994																		
9.CONSULTANT(S)	Tokyo Engineering Consultants Co., Ltd.																				
10.STUDY TEAM	<p>No.of Members 10</p> <p>Period Nov.1988-Jan.1990 (15 months)</p> <table border="1"> <thead> <tr> <th>Total M/M</th> <th>Japan</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td>67.56</td> <td>22.97</td> <td>44.59</td> </tr> </tbody> </table>	Total M/M	Japan	Field	67.56	22.97	44.59														
Total M/M	Japan	Field																			
67.56	22.97	44.59																			
11.ASSOCIATED AND/OR SUBCONTRACTED STUDY																					
12.EXPENDITURE	<p>Total 227,703 (¥'000)</p> <p>Contracted</p>	5. TECHNICAL TRANSFER		3.PRINCIPAL SOURCE OF INFORMATION																	
		<p>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.</p>		①③																	

和名 アデン市マール地区・タワヒ地区下水道施設改善計画

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

JICA