FOLLOW-UP STUDY OF DEVELOPMENT STUDIES

SUMMARY TABLES

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(Oman – Yemen)
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JAPAN INTERNATIONAL COOPERATION AGENCY
DEPARTMENT OF SOCIAI DEVELOPMENT STUDIES
AGRICULTURE, FORESTRY AND FISHERIES PLANNING AND SURVEY DEPARTMENT

Vol. 3

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443	Middle East	OMN/A 301	Oman	Wadi Jizzi Agricultural Development Project ワジ・ジジ農業開発計画	F/S	1982	Agriculture / General	Completed	518
444	Middle East	OMN/S 501	Oman	Hydrologic Observation Project in the Batinah Coast バチナコスト地区水文観測計画	Basic Study	1985	Social Infrastructures / Water Resource Development	In Progress or In Use	519
445	Middle East	OMN/A 401	Oman	Wadi Jizzi Agricultural Development Project ワジ・ジジ農業開発計画実施設計調査	D/D	1986	Agriculture / Irrigation, Drainage & Reclamation	Completed	520
446	Middle East	OMN/A 101	Oman	Agriculture Development Project in the Nejd Region ネジド地方農業開発計画	M/P	1989	Agriculture / General	In Progress or In Use	521
447	Middle East	OMN/S 101	Oman	Port Development for Northern Oman 北部地域港湾整備計画	M/P	1990	Transportation / Port	In Progress or In Use	522
448	Middle East	OMN/A 102	Oman	A Master Plan for Agricultural Development 農業開発基本計画	M/P	1990	Agriculture / General	In Progress or In Use	523
449	Middle East	QAT/S 301	Qatar	Drainage Improvement Plan: Doha City ドーハ市地下水排水対策	F/S	1986	Public Utilities / Sewerage	Implementing	524
450	Middle East	SAU/S 402	Saudi Arabia	National Cancer Center : Establishment Project 国立がんセンター設立計画基本設計	D/D	1983	Social Infrastructures / Architecture & Housing	Delayed or Suspended	525
451	Middle East	SAU/S 401	Saudi Arabia	General Hospital : Establishment Project 総合病院設立計画基本設計	D/D	1983	Social Infrastructures / Architecture & Housing	Delayed or Suspended	526
452	Middle East	SDN/S 301	Sudan	Road Project el Obeid-Um Ruaba 道路建設計画	F/S	1977	Transportation / Road	Discontinued or Cancelled	527
453	Middle East	SDN/A 301	Sudan	Rice Development Project in Abu Gasaba Basin アブ・ガサバ地区農業開発計画	F/S	1979	Agriculture / General	Completed	528
454	Middle East	SDN/S 302	Sudan	Construction of the New White Nile Bridge 新白ナイル橋建設計画	F/S	1989	Transportation / Road	Promoting	529
455	Middle East	TUN/S 501	Tunisia	Projet de cartographie topographique 地図作成事業	Basic Study	1987	Social Infrastructures / Survey & Mapping	In Progress or In Use	530
456	Middle East	TUN/S 301	Tunisia	Construction of the Radest - La Goulette Connection Facility ラデス・グーレット橋建設計画	F/S	1990	Transportation / Road	Promoting	531
457	Middle East	TUR/S 101	Turkey	Ankara Air Pollution Control Project アンカラ市大気汚染対策計画	M/P	1985	Administration / Environmental Problems	Discontinued	532
458	Middle East	TUR/A 301	Turkey	Adatepe Irrigation Project アダテペ灌漑開発計画	F/S	1989	Agriculture / General	Delayed or Suspended	533
459	Middle East	TUR/S 201B	Turkey	Development Project of Filyos Port フィリオス港建設計画	M/P+F/S	1990	Transportation / Port	Delayed or Suspended	534 ~ 535

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460	Middle East	ARE/S 301	United Arab Emirates	Wadi al Bassierah Basin Water Resources Development Project 水資源開発計画	F/S	1981	Social Infrastructures / Water Resource Development	Processing	536
461	Middle East	ARE/S 401	United Arab Emirates	Al Bassierah Dam Project アル・バセイダラム建設計画実施設計	D/D	1981	Social Infrastructures / Water Resource Development	Processing	537
462	Middle East	ARE/A 401	United Arab Emirates	(Mariculture Center) 水産増養殖センター建設計画	D/D	1985	Fisheries / Fisheries	Completed	538
463	Middle East	YEM/A 101	Yemen	Hajjah Province Integrated Rural Development ハッジャ州農業総合開発計画	M/P	1980	Agriculture / General	In Progress or In Use	539
464	Middle East	YEM/S 303	Yemen	Rural Water Supply Project Part 2 地方水道計画（パート２）	F/S	1980	Public Utilities / Water Supply	Completed	540
465	Middle East	YEM/S 301	Yemen	7th Berth Construction Project of the Port of Hodeidah ホデイダ港第７バース建設計画	F/S	1982	Transportation / Port	Completed	541
466	Middle East	YEM/S 302	Yemen	Rural Telecommunications Network 地方電気通信網整備計画	F/S	1984	Communications & Broadcasting / Telecommunication	Completed	542
467	Middle East	YEM/S 101	Yemen	Urban Transport Study 都市交通計画	M/P	1988	Transportation / Urban Transportation	In Progress or In Use	543
468	Middle East	YEM/S 201B	Yemen	Improvement of Ma'alla and Tawahi Sewerage System in Aden アデン市マーラ地区・タワヒ地区下水道施設改善計画	M/P+F/S	1989	Public Utilities / Sewerage	Delayed or Suspended	544 ~ 545
469	Africa	CMR/A 301	Cameroon	Baigom Agricultural Development Project バイゴム農業開発計画	F/S	1986	Agriculture / General	Delayed or Suspended	546
470	Africa	ETH/S 501	Ethiopia	Urgent Groundwater Development Project 生活用水供給（地下水開発）緊急計画	Basic Study	1985	Social Infrastructures / Water Resource Development	In Progress or In Use	547
471	Africa	GAB/A 601	Gabon	(Fisheries Resources Survey) 水産資源沿岸調査	Other	1979	Fisheries / Fisheries	Discontinued	548
472	Africa	GHA/A 301	Ghana	Aveyime Sugar Production Project in Accra Plains アクラ平原アベメ砂糖生産プロジェクト	F/S	1976	Agriculture / General	Delayed or Suspended	549
473	Africa	GIN/A 301	Guinea	Projet de developpement agricole a Kankan カンカン地区農業開発計画	F/S	1980	Agriculture / General	Discontinued or Cancelled	550
474	Africa	GIN/S 301	Guinea	Fleet Expansion Project 船舶増強計画	F/S	1981	Transportation / Marine Transportation & Ships	Discontinued or Cancelled	551
475	Africa	GIN/S 501	Guinea	Projet Cartographique 地形図作成事業	Basic Study	1982	Social Infrastructures / Survey & Mapping	In Progress or In Use	552
476	Africa	KEN/S 301	Kenya	Water Supply Augmentation Project of Mombasa - Coastal Area - Hinterland モンバサ地区給水増強計画	F/S	1981	Public Utilities / Water Supply	Discontinued or Cancelled	553

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477	Africa	KEN/A 301	Kenya	(Grain Silos Construction Project) 穀物貯蔵倉庫建設計画	F/S	1981	Agriculture / General	Completed	554
478	Africa	KEN/S 501	Kenya	Land Use Mapping (Topographic Mapping Project) in East Kenya 東部地区地図作成事業	Basic Study	1983	Social Infrastructures / Survey & Mapping	In Progress or In Use	555
479	Africa	KEN/S 101	Kenya	National Transport Plan 全国総合交通計画	M/P	1984	Transportation / General	In Progress or In Use	556
480	Africa	KEN/S 302	Kenya	Kilifi Bridge Construction Project キリフィ橋建設計画	F/S	1984	Transportation / Road	Completed	557
481	Africa	KEN/S 303	Kenya	Likoni Crossing Construction Project リコニクロッシング建設計画	F/S	1984	Transportation / Road	Discontinued or Cancelled	558
482	Africa	KEN/S 102	Kenya	Integrated Regional Development Master Plan for the Lake Basin Development Area ヴィクトリア湖周辺地域総合開発計画	M/P	1987	Development Plan / Integrated Regional Development Plan	In Progress or In Use	559
483	Africa	KEN/S 304	Kenya	Nairobi Bypass Construction Project ナイロビバイパス建設計画	F/S	1987	Transportation / Road	Processing	560
484	Africa	KEN/A 302	Kenya	Mwea Irrigation Development Project ムエア地区灌漑開発計画	F/S	1987	Agriculture / General	Implementing	561
485	Africa	KEN/S 305	Kenya	Construction of Dam in Malewa River System for Greater Nakuru Water Supply Project マレワダム建設計画	F/S	1990	Public Utilities / Water Supply	Delayed or Suspended	562
486	Africa	KEN/S 502	Kenya	Topographic Mapping of South Kenya 南部地区国土基本図作成	Basic Study	1990	Social Infrastructures / Survey & Mapping	In Progress or In Use	563
487	Africa	LBR/S 301	Liberia	Gbarnga-Kolahum-Mendikoma Highway Project バンガーコラフンーメンディコマ道路建設計画	F/S	1980	Transportation / Road	Completed	564
488	Africa	MDG/S 301	Madagascar	Southern Microwave System in Madagascar マイクロ回線建設計画	F/S	1978	Communications & Broadcasting / Telecommunication	Completed	565
489	Africa	MDG/S 302	Madagascar	(Improvement of National Highway No.5) 国道５号線改良計画	F/S	1979	Transportation / Road	Discontinued or Cancelled	566
490	Africa	MLI/A 301	Mali	Projet de developpement du perimentre de Baguineda バギンダ地区農業開発計画	F/S	1981	Agriculture / General	Completed	567
491	Africa	MLI/S 101	Mali	La mise en valeur des eaux sou terraines dans la 7 eme region economique 地下水開発計画	M/P	1982	Social Infrastructures / Water Resource Development	In Progress or In Use	568
492	Africa	MLI/A 302	Mali	Baguineda Agricultural Development Project (Updating Study) バギンダ地区農業開発計画実施補完調査	F/S	1985	Agriculture / General	Completed	569
493	Africa	MLI/A 303	Mali	Kala Upstream Agricultural Development Project カラ上流域農業開発計画	F/S	1990	Agriculture / General	Promoting	570

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494	Africa	MUS/S 301	Mauritius	Beau Bassin - Port Louis Link Road 道路建設計画	F/S	1978	Transportation / Road	Discontinued or Cancelled	571
495	Africa	MUS/S 401	Mauritius	Beau Bassin - Port Louis Link Road 道路建設計画（ボーバッサン～ポートルイス・リンクロード）	D/D	1980	Transportation / Road	Discontinued or Cancelled	572
496	Africa	MUS/S 302	Mauritius	Port Louis City Water Supply Project ポートルイス市水供給計画	F/S	1989	Public Utilities / Water Supply	Processing	573
497	Africa	MUS/S 303	Mauritius	Landslide Protection Project in Port Louis ポートルイス市地すべり対策計画	F/S	1990	Social Infrastructures / 河川・砂防	Promoting	574
498	Africa	NER/S 601	Niger	Plan de consolidation et d'amenagement de la capacite de transport 輸送力整備増強計画	Other	1977	Transportation / General	In Progress or In Use	575
499	Africa	NER/A 301	Niger	Amenagement hydro-agricole de la cuvette de Kourani-Baria クラニ・バリア灌漑農業開発計画	F/S	1983	Agriculture / General	Completed	576
500	Africa	NER/A 101	Niger	Rehabilitation of Oualiam Area ウアラム農村復興計画	M/P	1989	Agriculture / General	In Progress or In Use	577
501	Africa	NER/A 302	Niger	Projet d'amenagement hydroagricole de la cuvette d'Ouna-Kouanza ウナ・クワンザ農業水利整備計画	F/S	1989	Agriculture / General	Promoting	578
502	Africa	NGA/A 301	Nigeria	Agricultural Development Projects in Imo and Bendel States イモ州およびベンデル州農業開発計画	F/S	1977	Agriculture / General	Delayed or Suspended	579
503	Africa	NGA/S 101	Nigeria	New Ocean Terminal Project 新港建設計画	M/P	1981	Transportation / Port	In Progress or In Use	580
504	Africa	NGA/S 201B	Nigeria	Groundwater Development in Sokoto State 北部地下水開発計画	M/P+F/S	1990	Social Infrastructures / Water Resource Development	Processing	581 ~ 582
505	Africa	RWA/S 101	Rwanda	Rural Water Supply Project in the Eastern Region 東部生活用水開発計画	M/P	1985	Public Utilities / Water Supply	In Progress or In Use	583
506	Africa	SEN/S 501	Senegal	L'operation de dressage de la carte photographique au moyen de la projection orthographique pour le project de consruction de la ligne de chemin de Faleme ファレメ鉄道建設計画に関する写真図作成	Basic Study	1978	Transportation / Railway	In Progress or In Use	584
507	Africa	SEN/S 301	Senegal	Fleet Expansion Program 船舶増強計画	F/S	1980	Transportation / Marine Transportation & Ships	Discontinued or Cancelled	585
508	Africa	SEN/A 301	Senegal	Projet de developpement rural de petite envergure et de l'etude experimentale du developpement agricole(Thiago-Guiers) 小規模農村開発計画	F/S	1986	Agriculture / General	Completed	586
509	Africa	SEN/A 501	Senegal	Agricultural Verification Study 農業実証調査	Basic Study	1990	Agriculture / General	In Progress or In Use	587
510	Africa	SLE/S 301	Sierra Leone	Mekeni-Kamakwie Road Project 道路建設計画	F/S	1980	Transportation / Road	Processing	588

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511	Africa	SLE/A 301	Sierra Leone	Rhombe Swamp Agricultural Development Project ロンベ沼沢地農業開発計画	F/S	1983	Agriculture / General	Delayed or Suspended	589
512	Africa	SWZ/S 301	Swaziland	New International Airport Construction Project 新国際空港建設計画	F/S	1980	Transportation / Air Transportation & Airport	Discontinued or Cancelled	590
513	Africa	TZA/S 101	Tanzania	Natural Soda Development in Lake Natron and Related Transportation Facilities ナトロン湖天然ソーダ灰開発計画および関連輸送施設調査	M/P	1976	Transportation / General	Delayed	591
514	Africa	TZA/S 102	Tanzania	Kilimanjaro Region Integrated Development Plan キリマンジャロ地域総合開発計画	M/P	1977	Development Plan / Integrated Regional Development Plan	In Progress or In Use	592
515	Africa	TZA/S 301	Tanzania	Southern Coastal Link Road Project 南部沿岸道路建設計画	F/S	1977	Transportation / Road	Implementing	593
516	Africa	TZA/S 302	Tanzania	Purchasing of an Additional Passenger-cum-Cargo Vessel for Tanzania Coastal Shipping Line 貨客船建造計画	F/S	1978	Transportation / Marine Transportation & Ships	Discontinued or Cancelled	594
517	Africa	TZA/S 103	Tanzania	Proposed Mahale Mountains National Park マハレ自然保護国立公園計画	M/P	1980	Tourism / General	In Progress or In Use	595
518	Africa	TZA/A 301	Tanzania	Lower-Moshi Agricultural Development Project ローアモシ農業開発計画	F/S	1980	Agriculture / General	Completed	596
519	Africa	TZA/A 302	Tanzania	Mkomazi Valley Area Irrigation Development Project ムコマジバレイ農業用水開発計画	F/S	1983	Agriculture / General	Completed	597
520	Africa	TZA/A 601	Tanzania	(Forestry Development and Afforestation Project in Kilimanjaro Region) キリマンジャロ林業開発計画	Other	1988	Forestry / Forestry & Forest Conservation	In Progress or In Use	598
521	Africa	TZA/S 303	Tanzania	Road Improvement and Maintenance in Dar es Salaam ダルエスサラーム市道路整備計画	F/S	1990	Transportation / Road	Processing	599
522	Africa	TZA/A 303	Tanzania	Lower Hai and Lower Rombo Agricultural Development Project ハイロンボ農業開発計画	F/S	1990	Agriculture / General	Promoting	600
523	Africa	ZAR/S 301	Zaire	Projet de la construction du pont sur le fleuve Zaire a Matadi マタディ橋梁建設計画	F/S	1978	Transportation / General	Completed	601
524	Africa	ZAR/S 101	Zaire	Plan-directeur relatif a l'amenagement du systeme de transport allant de la ville de Kinshasa a Banana キンシャサ～バナナ間交通体系総合調査	M/P	1986	Transportation / General	In Progress or In Use	602
525	Africa	ZAR/S 302	Zaire	Railway Construction Project between Kisenso and Kimbanseke キセンソ・キンバンセケ鉄道建設計画	F/S	1987	Transportation / Railway	Delayed or Suspended	603
526	Africa	ZAR/S 303	Zaire	Construction Project of the East-West Road in Kinshasa City キンシャサ市内東西幹線道路建設計画	F/S	1989	Transportation / Road	Delayed or Suspended	604
527	Africa	ZMB/S 301	Zambia	Microwave Radio Relay Project マイクロウェーブ回線網建設計画	F/S	1981	Communications & Broadcasting / Telecommunication	Completed	605

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528	Africa	ZMB/S 302	Zambia	Lusaka International Airport Development Project ルサカ国際空港整備計画	F/S	1985	Transportation / Air Transportation & Airport	Implementing	606
529	Africa	ZMB/S 303	Zambia	Kafue Road Bridge Reconstruction Project カフエ川道路橋改築計画	F/S	1990	Transportation / Road	Implementing	607
530	Africa	ZWE/S 601	Zimbabwe	(Electrification of National Railways) 国鉄電化計画	Other	1980	Transportation / Railway	Discontinued	608
531	Africa	ZWE/S 101	Zimbabwe	Rural Water Supply Programme in Communal Lands in Parts of Masvingo and Midlands Provinces 村落給水計画	M/P	1983	Public Utilities / Water Supply	In Progress or In Use	609
532	Africa	ZWE/S 301	Zimbabwe	Installation Project of INTELSAT Standard A Earth Station インテルサット標準A地球局建設計画	F/S	1983	Communications & Broadcasting / Telecommunication	Completed	610
533	Africa	ZWE/A 301	Zimbabwe	Medium Size Dams in Masvingo Province マシンゴ州中規模かんがい計画	F/S	1987	Agriculture / General	Implementing	611
534	Africa	ZWE/A 302	Zimbabwe	Nyakomba Irrigation Development Project ニヤコンバ地方灌漑計画	F/S	1990	Agriculture / General	Promoting	612
535	Middle & South America	ARG/S 301	Argentina	Deep Water Port Construction Project at Punta Medanos プンタ・メダノス深水港建設	F/S	1979	Transportation / Port	Discontinued or Cancelled	613
536	Middle & South America	ARG/S 101	Argentina	Study on Economic Development 経済開発調査	M/P	1986	Development Plan / Integrated Regional Development Plan	In Progress or In Use	614
537	Middle & South America	ARG/S 302	Argentina	Preliminary Design for the Amplification of an Inspection and Repairing Workshop for Electric Rolling Stock 国鉄車輌検修工場建設計画	F/S	1986	Transportation / Railway	Discontinued or Cancelled	615
538	Middle & South America	ARG/S 102	Argentina	Development Plan for the Telecommunication and Broadcasting Networks in the Province of Mendoza メンドーサ州電気通信・放送網整備拡充計画	M/P	1987	Communications & Broadcasting / General	In Progress or In Use	616
539	Middle & South America	ARG/A 101	Argentina	Proyecto de desarrollo agricola integrado en el area adyacente a la represa de Yacyreta e la provincia de Corrientes ヤシレタダム隣接地域農業総合開発計画	M/P	1988	Agriculture / General	In Progress or In Use	617
540	Middle & South America	BOL/S 301	Bolivia	Viru Viru International Airport Development ビルビル国際空港計画	F/S	1977	Transportation / Air Transportation & Airport	Completed	618
541	Middle & South America	BOL/S 501	Bolivia	Topographic Mapping Project for Chapare Area チャパレー地区地図作成事業	Basic Study	1978	Social Infrastructures / Survey & Mapping	In Progress or In Use	619
542	Middle & South America	BOL/A 501	Bolivia	(Land Use Mapping Project for Chapare Area) チャパレー地区土地利用図作成	Basic Study	1979	Agriculture / General	Discontinued	620
543	Middle & South America	BOL/S 302	Bolivia	Railway Construction / Rehabilitation Project (Eastern Line: Taperas - Robore and Ipias - Robore) 国鉄復旧計画	F/S	1982	Transportation / Railway	Completed	621

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544	Middle & South America	BOL/S 303	Bolivia	National Telecommunication Network Project 電気通信網整備拡充計画	F/S	1982	Communications & Broadcasting / Telecommunication	Discontinued or Cancelled	622
545	Middle & South America	BOL/S 201B	Bolivia	El Alto Airport Modernization Project エル・アルト空港近代化計画	M/P+F/S	1987	Transportation / Air Transportation & Airport	Promoting	623 ~ 624
546	Middle & South America	BOL/S 305	Bolivia	Groundwater Development Project on El Alto District in La Paz City ラパス市エル・アルト地区地下水開発計画	F/S	1987	Public Utilities / Water Supply	Completed	625
547	Middle & South America	BOL/S 304	Bolivia	Mejoramiento de la carretera entre San Borja y Trinidad サンボルハ～トリニダ道路改良	F/S	1987	Transportation / Road	Promoting	626
548	Middle & South America	BOL/S 401	Bolivia	Mejoramiento de la carretera entre San Borja y Trinidad サンボルハ～トリニダ道路改良	D/D	1988	Transportation / Road	Promoting	627
549	Middle & South America	BOL/S 306	Bolivia	Road Improvement between Santa Barbara and Bella Vista サンタバルバラ・ベジャビスタ道路改良計画	F/S	1990	Transportation / Road	Promoting	628
550	Middle & South America	BOL/A 301	Bolivia	Agricultural and Rural Development Project in Santa Ana サンタアナ農業農村開発計画	F/S	1990	Agriculture / General	Processing	629
551	Middle & South America	BRA/S 101	Brazil	Plano de construcao da nova ligacao ferroviao ferroviaria 鉄道新線建設計画	M/P	1975	Transportation / Railway	In Progress or In Use	630
552	Middle & South America	BRA/S 301	Brazil	Praia Mole Port Construction Project プライアモーレ港建設計画	F/S	1977	Transportation / Port	Discontinued or Cancelled	631
553	Middle & South America	BRA/S 102	Brazil	Regional Development of the Three States: Espirito Santo, Minas Gerais and Goias 三州開発計画	M/P	1979	Development Plan / Integrated Regional Development Plan	In Progress or In Use	632
554	Middle & South America	BRA/S 103	Brazil	Establishment of the Fire Fighting Training Center in Brasilia D.F. 消防訓練センター建設計画	M/P	1980	Social Infrastructures / Architecture & Housing	In Progress or In Use	633
555	Middle & South America	BRA/S 104	Brazil	Regional Development Plan of the Greater Carajas Program 大カラジャス地域総合開発計画	M/P	1985	Development Plan / Integrated Regional Development Plan	In Progress or In Use	634
556	Middle & South America	BRA/S 201B	Brazil	Itajai River Basin Flood Control Project イタジャイ河流域治水計画	M/P+F/S	1987	Social Infrastructures / River & Erosion Control	Implementing	635 ~ 636
557	Middle & South America	BRA/S 302	Brazil	Flood Control Project in the Lower Itajai River Basin イタジャイ河下流域治水計画	F/S	1989	Social Infrastructures / River & Erosion Control	Delayed or Suspended	637
558	Middle & South America	BRA/S 202B	Brazil	Disaster Prevention and Restoration Project in Serra Do Mar, Cubatao Region クバトン地域海岸山脈災害防止復旧計画	M/P+F/S	1990	Social Infrastructures / River & Erosion Control	Promoting	638 ~ 639
559	Middle & South America	CHL/S 101	Chile	State Railways Modernization Project 国鉄近代化計画	M/P	1983	Transportation / Railway	In Progress or In Use	640
560	Middle & South America	CHL/S 102	Chile	Development Plan of the Ports of Valparaiso and San Antonio バルパライソ港・サンアントニオ港整備計画	M/P	1986	Transportation / Port	In Progress or In Use	641

PROJECT LIST

No.	Region	Code No.	Country	Name of the Study	Type	FYear Completion	Sector Subsector	Status	Page
561	Middle & South America	CHL/A 301	Chile	Mapocho River Basin Agricultural Development Project マポーチョ川流域農業開発計画	F/S	1986	Agriculture / General	Promoting	642
562	Middle & South America	CHL/A 302	Chile	Proyecto de desarrollo agricola mediante aprovechamiento de aguas subterraneas en Tololo Pampa en la region de Atacama トロロ・パンパ地下水農業開発計画	F/S	1988	Agriculture / General	Processing	643
563	Middle & South America	COL/S 101	Colombia	Simon Bolivar Great Memorial Park Project シモンボリバール公園造成計画	M/P	1981	Social Infrastructures / Urban Planning & Land Development	In Progress or In Use	644
564	Middle & South America	COL/A 501	Colombia	(Fisheries Resources Survey) 水産資源調査	Basic Study	1981	Fisheries / Fisheries	In Progress or In Use	645
565	Middle & South America	COL/S 301	Colombia	Bogota - Buenaventura Road Project ベナベンツラーボゴタ間道路計画	F/S	1982	Transportation / Road	Discontinued or Cancelled	646
566	Middle & South America	COL/S 102	Colombia	Comprehensive Urban Transport Study in Barranquilla Metropolitan Region バランキージャ総合都市交通計画	M/P	1984	Transportation / Urban Transportation	In Progress or In Use	647
567	Middle & South America	COL/A 301	Colombia	Pamplonita River Basin Agricultural Development Project パンプロニータ川流域農業開発計画	F/S	1984	Agriculture / General	Completed	648
568	Middle & South America	COL/A 302	Colombia	Small Scale Irrigation Package Project in Slope Area 傾斜地小規模かんがい計画	F/S	1986	Agriculture / General	Implementing	649
569	Middle & South America	COL/S 302	Colombia	Urban Development of the Central District of Barranquilla バランキージャ市中心地区再開発計画	F/S	1987	Social Infrastructures / Urban Planning & Land Development	Implementing	650
570	Middle & South America	COL/A 101	Colombia	Quindio Basin Integrated Agricultural Development Project キンディオ盆地農業総合開発計画	M/P	1988	Agriculture / General	In Progress or In Use	651
571	Middle & South America	COL/A 303	Colombia	ARIARI River Basin Integrated Agricultural Development Project アリアリ川農業総合開発計画	F/S	1989	Agriculture / General	Promoting	652
572	Middle & South America	CRI/S 101	Costa Rica	Regional study of the Hinterland of Caldera and Puntarenas Ports 太平洋岸新港背後地域開発計画	M/P	1977	Development Plan / Integrated Regional Development Plan	In Progress or In Use	653
573	Middle & South America	CRI/S 301	Costa Rica	Second Stage Expansion Project of the Port of Caldera カルデラ港建設計画	F/S	1981	Transportation / Port	Discontinued or Cancelled	654
574	Middle & South America	CRI/S 302	Costa Rica	Maintenance Project of the Port of Caldera カルデラ港維持整備計画	F/S	1986	Transportation / Port	Promoting	655
575	Middle & South America	CRI/A 201B	Costa Rica	Limon Integrated Agricultural Development Project リモン地区農業総合開発計画	M/P+F/S	1988	Agriculture / General	Promoting	656 ~ 657
576	Middle & South America	CRI/A 501	Costa Rica	Fisheries Resources Survey of the Pacific Coast 太平洋沿岸水産資源調査	Basic Study	1988	Fisheries / Fisheries	In Progress or In Use	658
577	Middle & South America	DOM/A 301	Dominican Republic	Proyecto del desarrollo agricola del area Aglipo(El Pozo) アグリポ（エルポソ）地域農業開発計画	F/S	1981	Agriculture / General	Completed	659

PROJECT LIST

No.	Region	Code No.	Country	Name of the Study	Type	FYear Completion	Sector Subsector	Status	Page
578	Middle & South America	DOM/S 301	Dominican Republic	Radio and Television Development Project ラジオ・テレビ放送網拡充計画	F/S	1985	Communications & Broadcasting / Broadcasting	Implementing	660
579	Middle & South America	DOM/A 302	Dominican Republic	Aguacate-Guayabo Agricultural Development Project アグアカテ・グァジャボ地域農業開発計画	F/S	1986	Agriculture / General	Promoting	661
580	Middle & South America	DOM/S 201B	Dominican Republic	Development Project of the San Pedro de Macoris サンペドロデマコリス港開発計画	M/P+F/S	1987	Transportation / Port	Promoting	662 ~ 663
581	Middle & South America	DOM/A 303	Dominican Republic	Constanza Valley Irrigation Project コンスタンサ畑地灌漑計画	F/S	1990	Agriculture / General	Promoting	664
582	Middle & South America	ECU/A 301	Ecuador	Proyecto Catarama de desarrollo agricola コスタ地区カタラマ川流域農業開発計画	F/S	1982	Agriculture / General	Implementing	665
583	Middle & South America	ECU/S 201B	Ecuador	Guayaquil City Urban Transportation Plan グアヤキル市都市交通計画	M/P+F/S	1986	Transportation / Urban Transportation	Delayed or Suspended	666 ~ 667
584	Middle & South America	ECU/A 501	Ecuador	Estudio forestal de la region noreste 北東部林業資源調査	Basic Study	1988	Forestry / Forestry & Forest Conservation	In Progress or In Use	668
585	Middle & South America	GTM/S 201B	Guatemala	Flood Control Project (Archiguate and Pantaleon Rivers) 治水計画	M/P+F/S	1984	Social Infrastructures / River & Erosion Control	Delayed or Suspended	669 ~ 670
586	Middle & South America	GTM/S 501	Guatemala	Ground Water Development Project グァテマラ市地下水開発計画	Basic Study	1986	Social Infrastructures / Water Resource Development	In Progress or In Use	671
587	Middle & South America	GTM/S 301	Guatemala	Development Project of the Port of Santo Tomas de Castilla サント・トーマス港開発計画	F/S	1988	Transportation / Port	Delayed or Suspended	672
588	Middle & South America	GTM/A 301	Guatemala	Monjas Irrigation Project モンハスかんがい計画	F/S	1988	Agriculture / General	Delayed or Suspended	673
589	Middle & South America	GTM/S 302	Guatemala	Development Project of La Aurora and Santa Elena Airports 国際空港整備計画	F/S	1989	Transportation / Air Transportation & Airport	Promoting	674
590	Middle & South America	HND/A 301	Honduras	Agricultural Development in the Choluteca River Basin チョルテーカ川流域農業開発計画	F/S	1978	Agriculture / General	Processing	675
591	Middle & South America	HND/S 301	Honduras	New Tegucigalpa Airport Development テグシガルパ新空港建設計画	F/S	1979	Transportation / Air Transportation & Airport	Discontinued or Cancelled	676
592	Middle & South America	HND/A 501	Honduras	Inventario forestal del distrito forestal de La Mosquitia ラ・モスキチア地区林業資源調査	Basic Study	1983	Forestry / Forestry & Forest Conservation	In Progress or In Use	677
593	Middle & South America	HND/A 502	Honduras	(Fisheries Resources Survey) 水産資源調査	Basic Study	1983	Fisheries / Fisheries	In Progress or In Use	678
594	Middle & South America	HND/A 302	Honduras	Choluteca River Basin Agricultural Development Project (Updating Study) チョルテカ川流域農業開発計画補完調査	F/S	1984	Agriculture / General	Processing	679

PROJECT LIST

No.	Region	Code No.	Country	Name of the Study	Type	FYear Completion	Sector Subsector	Status	Page
595	Middle & South America	HND/A 303	Honduras	Aguan Valley Agricultural Development Project (Saba-Olanchito Area) アグアン川流域農業開発計画	F/S	1985	Agriculture / General	Delayed or Suspended	680
596	Middle & South America	HND/S 101	Honduras	Groundwater Development Project in Comayagua コマヤグア県地下水開発計画	M/P	1989	Social Infrastructures / Water Resource Development	In Progress or In Use	681
597	Middle & South America	HND/A 304	Honduras	Rehabilitation of Coyolar Dam and Irrigation Improvement Project in Comayagua Valley コヨラルダム灌漑復旧計画	F/S	1990	Agriculture / Irrigation, Drainage & Reclamation	Promoting	682
598	Middle & South America	JAM/A 301	Jamaica	Agricultural Development Project on the Black River Lower Morass ブラックリバーローアモラス農業開発計画	F/S	1985	Agriculture / General	Delayed or Suspended	683
599	Middle & South America	JAM/A 302	Jamaica	Modernization and Expansion of the Rio Cobre Irrigation Scheme リオ・コブレ農業開発計画	F/S	1987	Agriculture / General	Processing	684
600	Middle & South America	MEX/S 601	Mexico	Mexico City Suburban Railways Construction Project メキシコ市内通勤鉄道建設計画	Other	1977	Transportation / Railway	Discontinued	685
601	Middle & South America	MEX/S 602	Mexico	*Suburban Railway Project (follow-up) 近郊鉄道計画(アフターケア)	Other	1979	Transportation / Railway	In Progress or In Use	686
602	Middle & South America	MEX/S 603	Mexico	Proyecto de electrificacion de la linea troncal de Mexico a Irapuato 幹線鉄道電化計画	Other	1981	Transportation / Railway	In Progress or In Use	687
603	Middle & South America	MEX/S 604	Mexico	Development Plan of Industrial Ports 臨海工業地帯建設にかかる技術協力計画	Other	1982	Development Plan / Integrated Regional Development Plan	In Progress or In Use	688
604	Middle & South America	MEX/S 301	Mexico	Guanajuato New Railway Development Project グァナファト州高速鉄道開発計画	F/S	1983	Transportation / Railway	Discontinued or Cancelled	689
605	Middle & South America	MEX/S 302	Mexico	Development Project of the Industrial Port of Tuxpan トクスパン工業港開発計画	F/S	1983	Transportation / Port	Delayed or Suspended	690
606	Middle & South America	MEX/S 303	Mexico	Development Project of the Port of Manzanillo マンサニージョ港開発計画	F/S	1985	Transportation / Port	Completed	691
607	Middle & South America	MEX/S 304	Mexico	Repair Dockyard in Lazaro Cardenas ラサロカルデナス港修繕ドック整備計画	F/S	1987	Transportation / Marine Transportation & Ships	Discontinued or Cancelled	692
608	Middle & South America	MEX/S 605	Mexico	Air Pollution Control Plan in the Federal District メキシコ市大気汚染対策	Other	1988	Administration / Environmental Problems	In Progress or In Use	693
609	Middle & South America	MEX/S 305	Mexico	Improvement of the Pacific Coast Ports 太平洋港湾整備計画	F/S	1990	Transportation / Port	Implementing	694
610	Middle & South America	PAN/S 501	Panama	Topographic Mapping Project of the Caribbean Coastal Area カリブ海沿岸地区地図作成事業	Basic Study	1981	Social Infrastructures / Survey & Mapping	In Progress or In Use	695
611	Middle & South America	PAN/S 302	Panama	Urban Transport Project in the Panama Metropolitan Area (ESTAMPA II) パナマ首都圏都市交通計画	F/S	1984	Transportation / Urban Transportation	Delayed or Suspended	696

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No.	Region	Code No.	Country	Name of the Study	Type	FYear Completion	Sector Subsector	Status	Page
612	Middle & South America	PAN/S 301	Panama	Short-Wave Broadcast Station Project 短波放送施設建設計画	F/S	1984	Communications & Broadcasting / Broadcasting	Delayed or Suspended	697
613	Middle & South America	PAN/A 502	Panama	Inventario forestal del distrito de Donoso 林業資源調査	Basic Study	1984	Forestry / Forestry & Forest Conservation	In Progress or In Use	698
614	Middle & South America	PAN/A 501	Panama	(Fisheries Resources Survey of the Atlantic Coast) 大西洋岸漁業資源調査	Basic Study	1984	Fisheries / Fisheries	In Progress or In Use	699
615	Middle & South America	PAN/S 303	Panama	Corredor Sur Development Project in the Panama Metropolitan Area (ESTAMPA III) パナマ市南部回廊建設計画	F/S	1987	Transportation / Urban Transportation	Delayed or Suspended	700
616	Middle & South America	PRY/S 601	Paraguay	La Colmena Highway (follow-up) ラ・コルメナ道路アフターケア	Other	1976	Transportation / Road	In Progress or In Use	701
617	Middle & South America	PRY/S 301	Paraguay	Fleet Expansion Project 船舶増強計画	F/S	1978	Transportation / Marine Transportation & Ships	Completed	702
618	Middle & South America	PRY/S 302	Paraguay	New Airport Construction Project in Ciudad Presidente Stroessner ストロエスネル新空港建設計画(東部国際空港建設計画)	F/S	1979	Transportation / Air Transportation & Airport	Processing	703
619	Middle & South America	PRY/A 301	Paraguay	Proyecto de desarrollo agricola en la zona noroeste del lago Ypoa イポア湖北西部農業開発計画	F/S	1982	Agriculture / General	Delayed or Suspended	704
620	Middle & South America	PRY/S 201B	Paraguay	National Telecommunications & Broadcasts Development Project 電気通信・放送拡充計画	M/P+F/S	1983	Communications & Broadcasting / General	Completed	705 ~ 706
621	Middle & South America	PRY/A 501	Paraguay	Forest Inventory in the Northeastern Region 北東部林業資源調査	Basic Study	1983	Forestry / Forestry & Forest Conservation	In Progress or In Use	707
622	Middle & South America	PRY/A 101	Paraguay	Irrigation and Drainage Project in the Adjacent Area to the Yacyreta Dam ヤシレタダム隣接地域農業総合開発計画	M/P	1984	Agriculture / General	Delayed	708
623	Middle & South America	PRY/A 302	Paraguay	Proyecto de reforestacion en la zona de Capiibary, Departamento de San Pedro カピバリ地区森林造成計画	F/S	1984	Forestry / Forestry & Forest Conservation	Implementing	709
624	Middle & South America	PRY/S 101	Paraguay	Transito urbano de Asuncion y su area metropolitana アスンシオン首都圏都市交通整備計画	M/P	1986	Transportation / Urban Transportation	In Progress or In Use	710
625	Middle & South America	PRY/S 202B	Paraguay	Storm Drainage System Improvement Project in Asuncion City アスンシオン市雨水排水施設整備計画	M/P+F/S	1986	Social Infrastructures / River & Erosion Control	Promoting	711 ~ 712
626	Middle & South America	PRY/A 102	Paraguay	Proyecto de aumento de la produccion de granos principales en el area central del departamento de Itapua イタプア県中部地域主要穀物増産計画	M/P	1987	Agriculture / General	In Progress or In Use	713
627	Middle & South America	PRY/S 303	Paraguay	Transportation Facilities Improvement Project of the Asuncion Metropolitan Area アスンシオン首都圏交通施設整備計画	F/S	1988	Transportation / Urban Transportation	Promoting	714
628	Middle & South America	PRY/S 102	Paraguay	Water Pollution Control Plan for the Lake Ypacarai and its Basin イパカライ湖流域水質汚濁対策計画	M/P	1989	Administration / Environmental Problems	In Progress or In Use	715

PROJECT LIST

No.	Region	Code No.	Country	Name of the Study	Type	FYear Completion	Sector Subsector	Status	Page
629	Middle & South America	PRY/A 303	Paraguay	Integrated Rural Infrastructure Improvement Project in La Colmena ラ・コルメナ地区農村総合整備計画	F/S	1989	Agriculture / General	Implementing	716
630	Middle & South America	PER/A 301	Peru	Proyecto de la construccion del complejo pesquero del centro 中部漁業総合基地建設計画	F/S	1977	Fisheries / Fisheries	Delayed or Suspended	717
631	Middle & South America	PER/S 201B	Peru	Development Project of the Port of Callao カジャオ港整備計画	M/P+F/S	1983	Transportation / Port	Delayed or Suspended	718 ~ 719
632	Middle & South America	PER/A 302	Peru	Chancay-Huaral Valley Rehabilitation Project チャンカイ・ワラル谷かんがい復旧計画	F/S	1984	Agriculture / General	Implementing	720
633	Middle & South America	PER/S 202B	Peru	Development Project of Jorge Chavez Lima-Callao International Airport リマ国際空港整備計画	M/P+F/S	1986	Transportation / Air Transportation & Airport	Delayed or Suspended	721 ~ 722
634	Middle & South America	PER/S 501	Peru	Topographic Mapping Project for Satipo Area, Department of Junin フニン県サティポ地区地形図作成事業	Basic Study	1986	Social Infrastructures / Survey & Mapping	In Progress or In Use	723
635	Middle & South America	PER/S 101	Peru	Disaster Prevention Project in the Rimac River Basin リマック川防災対策計画	M/P	1987	Social Infrastructures / River & Erosion Control	Delayed	724
636	Middle & South America	PER/S 301	Peru	Improvement of Sewerage System in Southern Part of Lima リマ市南部下水道整備計画	F/S	1989	Public Utilities / Sewerage	Promoting	725
637	Middle & South America	PER/A 201B	Peru	Desarrollo Pesquero Para La Construccion Del Pucruto En La Costa Central 沿岸漁港開発計画	M/P+F/S	1990	Fisheries / Fisheries	Promoting	726 ~ 727
638	Middle & South America	URY/A R101	Uruguay	Establecimiento de plantaciones de arboles ya utilizacion de la madera plantada 造林・木材利用計画	M/P	1986	Forestry / Forestry & Forest Conservation	In Progress or In Use	728
639	Middle & South America	URY/S 301	Uruguay	Development Plan of the International Airport of Carrasco カラスコ国際空港整備計画調査	F/S	1989	Transportation / Air Transportation & Airport	Delayed or Suspended	729
640	Middle & South America	URY/A 301	Uruguay	National Reforestation Plan 国家造林５ケ年計画	F/S	1990	Forestry / Forestry & Forest Conservation	Implementing	730
641	Middle & South America	VEN/S 101	Venezuela	Design on Cargo Handling Equipments 港湾技術訓練センター建設計画	M/P	1980	Transportation / Port	Discontinued	731
642	Middle & South America	VEN/S 201B	Venezuela	Chama River Basin Conservation Project チャマ川流域防災計画	M/P+F/S	1989	Social Infrastructures / River & Erosion Control	Promoting	732 ~ 733
643	Oceania	FJI/A 501	Fiji	Analytical Survey of Coconut Forests in Taveuni Island 林業開発 (TAVEUNI島ココナッツ林解析調査)	Basic Study	1978	Forestry / Forestry & Forest Conservation	In Progress or In Use	734
644	Oceania	FJI/A 502	Fiji	The Survey for Forest Development in Fiji 林業資源調査	Basic Study	1982	Forestry / Forestry & Forest Conservation	In Progress or In Use	735
645	Oceania	FJI/A 503	Fiji	Fisheries Resources Survey in Fiji and Tuvalu 水産資源調査	Basic Study	1987	Fisheries / Fisheries	In Progress or In Use	736

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No.	Region	Code No.	Country	Name of the Study	Type	FYear Completion	Sector Subsector	Status	Page
646	Oceania	KIR/A 501	Kiribati	Fishery Resources in the Gilbert Islands 水産資源調査	Basic Study	1978	Fisheries / Fisheries	In Progress or In Use	737
647	Oceania	PNG/A 301	Papua New Guinea	(Fishing Base Construction Project) 漁業基地建設計画	F/S	1977	Fisheries / Fisheries	Delayed or Suspended	738
648	Oceania	PNG/S 301	Papua New Guinea	Rural Telecommunication Development Plan 地方電話網整備計画	F/S	1989	Communications & Broadcasting / Telecommunication	Promoting	739
649	Oceania	PNG/S 401	Papua New Guinea	Road Construction Project in Bereina - Malalaua 横断道路建設計画（ベレイナ・マララウア間）	D/D	1989	Transportation / Road	Processing	740
650	Oceania	SLB/S 301	Solomon Islands	Telecommunication Trunk Network Construction Project 国内電気通信幹線網建設計画	F/S	1979	Communications & Broadcasting / Telecommunication	Discontinued or Cancelled	741
651	Oceania	WSM/S 201B	Western Samoa	Development of the Ports in Western Samoa 全国湾港整備総合計画	M/P+F/S	1987	Transportation / Port	Completed	742 ~ 743
652	Europe	GRC/S 601	Greece	Tourism Promotion 観光振興計画	Other	1989	Tourism / General	In Progress or In Use	744
653	Plural Countries	ZZZ/S 101	Indonesia, Malaysia, Singapore	Establishment of Electronic and Navigational Aid Systems Project 電子航行援助システム等設置計画	M/P	1977	Transportation / Marine Transportation & Ships	In Progress or In Use	745
654	Plural Countries	ZZZ/S 502	Indonesia, Malaysia, Singapore	Joint Hydrographic Survey in Malacca and Singapore Straits (one fathom bank area) マラッカ海峡ワンファザムバンク区域水路調査	Basic Study	1978	Transportation / Marine Transportation & Ships	In Progress or In Use	746
655	Plural Countries	ZZZ/S 501	Thailand, Malaysia, Singapore	ASEAN Submarine Cable Project: Thailand - Malaysia - Singapore Route タイ・マレーシア・シンガポール海底ケーブル建設計画	Basic Study	1978	Communications & Broadcasting / Telecommunication	In Progress or In Use	747
656	Plural Countries	ZZZ/S 301	Indonesia, Philippines	(Construction of Indo-Chinese Refugee Centers) インドシナ難民センター建設計画	F/S	1979	Social Infrastructures / Architecture & Housing	Discontinued or Cancelled	748
657	Plural Countries	ZZZ/S 503	Indonesia, Malaysia, Singapore	Joint Production of Common Datum Charts of the Straits of Malacca and Singapore マラッカ・シンガポール海峡統一基準点海図作成	Basic Study	1982	Social Infrastructures / Survey & Mapping	In Progress or In Use	749
658	Plural Countries	ZZZ/S 504	Indonesia, Sri Lanka	Medan (Indonesia) - Colombo (Sri Lanka) Submarine Cable Project メダン－コロンボ海底ケーブル建設計画	Basic Study	1984	Communications & Broadcasting / Telecommunication	In Progress or In Use	750

PROJECT SUMMARY (F/S)

MEA OMN/A 301/82

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Oman

2. NAME OF STUDY: Wadi Jizzi Agricultural Development Project

3. SECTOR: Agriculture/ General

4. REFERENCE NO.:

5. TYPE OF STUDY: F/S

6. COUNTERPART AGENCY: Ministry of Agriculture and Fisheries

7. OBJECTIVES OF STUDY: Feasibility study on the water resources facility for agricultural development

8. DATE OF S/W: Nov.1980

9. CONSULTANT(S): Sanyu Consultants, Inc.

10. STUDY TEAM

No. of Members	21
Period	Mar.1981 - Jan.1983 (24 months)
Total M/M	76.31
Japan	39.02
Field	37.29

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY:

12. EXPENDITURE

Total	416,436 (¥'000)
Contracted	385,124

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA: Batinah District (180km north of the capital Muscat)

2. PROJECT COSTS

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	3,420	510	2,910
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

Wadi Jizzi impounding dam : Capacity V=5.4MCM, length 1,000m
Distribution facilities : length 110m, height 2m,
New farm land : area 100ha, immigrant farm families 20

Implementation Period: Nov.1981 - Dec.1982

4. FEASIBILITY AND ITS ASSUMPTIONS

EIRR 13.6% FIRR

Feasibility:

Conditions and Development Impacts:

Development Impacts:
1. Increase of farm products by newly developed farm land (area 85ha)
2. Reduction of flood damage
3. Prevention of salinization
4. Supply of drinking water and industrial use water to copper refining field

5. TECHINCAL TRANSFER

Transfer to governmental officials in Oman and Japan was made.

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- [■] Completed or in Progress
  - (●) Completed
  - ( ) Implementing
  - ( ) Processing
- [ ] Promoting
- [ ] Delayed or Suspended
- [ ] Discontinued or Cancelled

(Description)

(FY 1991 Overseas Survey)
After the request by the Oman Government, Wass Jizzi Agricultural Development Project Planning Survey was done. Because of the Iran-Traq war, this survey was suspended. However this project was included in the 3rd Five Year Plan (1986-1990), and it was carried out by domestic funding. The dam was completed in 1988, and is working efficiently. Agricultural Development component requires a long-term observation of the amount of underground water, so that observation is under way at present. Actual planning of this component depends on the result of the survey.

2. MAJOR REASONS FOR PRESENT STATUS

3. PRINCIPAL SOURCES OF INFORMATION

①、③

和名　ワジ・ジジ農業開発計画

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

PROJECT SUMMARY (Basic Study)

MEA OMN/S 501/85

Compiled March 1988
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Oman

2. NAME OF STUDY
Hydrologic Observation Project in the Batinah Coast

3. SECTOR
Social Infrastructures/ Water Resource Development

4. REFERENCE NO.

5. TYPE OF STUDY: Basic Study

6. COUNTERPART AGENCY
Ministry of Agriculture and Fisheries

7. OBJECTIVES OF STUDY
Hydrologic and meteorological observation

8. DATE OF S/W: Dec.1981

9. CONSULTANT(S)
Pacific Consultants International
Sanyu Consultants Inc.

10. STUDY TEAM

No. of Members	17
Period	Mar.1982 ~ Mar.1986 (48 months)
Total M/M	86.00
Japan	23.00
Field	63.00

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY
Facilities for hydrologic and meteorological observation

12. EXPENDITURE

Total	1,110,739 (¥'000)
Contracted	318,581

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA
Batinah Coast

2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS

	Total Cost	Local Cost	Foreign Cost
(US$1,000)	1)		
	2)		

3. MAJOR PROJECT(S) PROPOSED

1) Continuation of hydrologic observation network previously conducted by JICA study
 -To increase staff and to strengthen the organization
 -To follow the ovservation and maintenance manual and training for staff.
 -To raise the level of observation networks
2) Promotion of water resources development plan
 -To prepare basic data such as hydrological data and topographic map
 -To analyze flood outflow and sediment discharge
3) Grround water preservation and water utilizaion
 -To carry out intensive water use survey and water use rationalization scheme
 -Facility plan, project evaluation and implementation program

4. CONDITIONS AND DEVELOPMENT IMPACTS

The continuation of the current progress rate of water use will cause the development of salinity problems.
It is respected to make effective use of folld water, using dam-type structure whichi will recharge the flood water into the wadi alluvium and increase the groundwater resources.
And, it indispensable to economize water use for irrigation.

5. TECHINCAL TRANSFER

1) OJT on preparation hydrological year table and observation manual
2) 8 counterparts accepted by JICA training programs
3) Employment of local consultants for boring survey

III. PRESENT STATUS OF USE OF STUDY RESULTS

1. PRSENT STATUS
- [■] In Progress or In Use
- [ ] Delayed
- [ ] Discontinued

(Description)

(FY 1991 Overseas Survey)
Experts from JICA continued the observation of the project. At present this project is done under the Ministry of Water Resourses. No problems have been observed from this change. Ministry of Agriculture and Fisheries is in charge of only the dam section. The dum is under construction.
The facilities and observation utilities are still in good condition, and are utilized effectively. At present, 42 dams are planned to be constructed. Among them, 20 dams are scheduled to be constructed in the 4th Five-Year Plan of Oman.

2. MAJOR REASONS FOR PRESENT STATUS
Requires some time to collect basic data on Oman's side.

3. PRINCIPAL SOURCES OF INFORMATION
①③

和名 バチナコスト地区水文観測計画

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

PROJECT SUMMARY (D/D)

MEA OMN/A 401/86

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Oman

2. NAME OF STUDY: Wadi Jizzi Agricultural Development Project

3. SECTOR: Agriculture/ Irrigation, Drainage & Reclamation

4. REFERENCE NO.:

5. TYPE OF STUDY: D/D

6. COUNTERPART AGENCY: Ministry of Agriculture

7. OBJECTIVES OF STUDY

8. DATE OF S/W: Jul.1984

9. CONSULTANT(S)

Sanyu Consultants, Inc.
Pacific Consultants International

10. STUDY TEAM

No. of Members 13
Period Jan.1985 - Jun.1986 (18 months)

Total M/M 39.86
Japan 14.58
Field 25.28

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

12. EXPENDITURE

Total 287,929 (¥'000)
Contracted 265,710

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA

North Batina coast in the outskirts of Sohal city

2. PROJECT COSTS (US$1= 215yen in 1985)

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	27,870	27,870	
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

1) Detention Dam
- Dam Height: 21 m
- Dam Length: 820 m
- Embankment Volume: 600 thousand m3
- Dam Capacity: 5.4 MCM
- Flood Discharge: Max 7,800 m3/sec
- Outlet Discharge: Max 13 m3/sec

2) Diffusion Facilities

3) Groundwater Observation Well (5 points)

Implementation Period: Mar.1985 - Mar.1986

4. FEASIBILITY AND ITS ASSUMPTIONS

EIRR 12.2%
FIRR

Feasibility:

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.

5. TECHINCAL TRANSFER

1) Local guidance for soil and rock experiment methods
2) Local guidance for electrical exploration methods

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- ■ Completed or in Progress
  - ● Completed
  - ○ Implementing
  - ○ Processing
- □ Promoting
- □ Delayed or Suspended
- □ Discontinued or Cancelled

(Description)

(FY 1991 Overseas Survey)

After the completion of its detailed design, the Government of Oman has implemented by its own finance and completed in Aug., 1989.

The consultant engaged in implementation is Sir M. MacDonald & Partners Limited (the Britain).

10 floods occured after the completion of the dam, and it worked efficiently. The condition of underground water is good. The project contributed enormously to the people of Oman.

2. MAJOR REASONS FOR PRESENT STATUS

In Oman, water resources are quite precious, and it promotes desaltfication of sea water. So, the project is urgent and well-suited.

3. PRINCIPAL SOURCES OF INFORMATION

①, ③

和名 ワジ・ジジ農業開発計画実施設計調査

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

PROJECT SUMMARY (M/P)

MEA OMN/A 101/89

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Oman

2. NAME OF STUDY: Agriculture Development Project in the Nejd Region

3. SECTOR: Agriculture/ General

4. REFERENCE NO.:

5. TYPE OF STUDY: M/P

6. COUNTERPART AGENCY: Ministry of Agriculture and Fisheries

7. OBJECTIVES OF STUDY

8. DATE OF S/W: Dec.1986

9. CONSULTANT(S)

Pacific Consultants International
Mitsui Mineral Development Engineering Co.,Ltd.

10. STUDY TEAM

No. of Members	9
Period	Sep.1987 - 1989 (25 months)
Total M/M	58.40
Japan	18.30
Field	40.10

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

Topographical and geological survey

12. EXPENDITURE

Total	286,182 (¥'000)
Contracted	240,752

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA

Southern Oman, 8,000 sq.km from Nejd region

2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	4,300		
2)			

3. MAJOR PROJECT(S) PROPOSED

A phased agriculture development plan is proposed in this study, based on the actual conditions and limitations of the Nejd.

1. Phase 1
   - Establishment of pilot farm; experimentation at pilot farm and collection data.
2. Phase 2
   - Development of up to 500ha area based on the result of Phase 1.
3. Phase 3
   - Further development based on the result of Phase 2.

4. CONDITIONS AND DEVELOPMENT IMPACTS

The pilot farm project which will be carried out as the first phase is the most important phase to confirm the development potential of the Nejd. In this regard, early execution of this project is strongly recommended.

By this project, lack data such as groundwater potential, type of crops suitable, appropriate cultivation technology, etc., will be clarified systematically.

As project impacts, the infractructures for living will be provided by accumulation of techniques and experience in desert agriculture.

5. TECHINCAL TRANSFER

-Acceptance of trainee(1)
-OJT
-Regular seminars

III. PRESENT STATUS OF USE OF STUDY RESULTS

1. PRSENT STATUS

- [■] In Progress or In Use
- [ ] Delayed
- [ ] Discontinued

(Description)

Situation:
Oman has requested Japan to prepare plans for a pilot farm.

The study for the detailed design of pilot farm and the next agricultural development are implemented by JICA from Mar. 1991 to 1995.

(FY 1991 Overseas Survey)
The aim of Phase II survey
* Designing of a pilot farm
* Observation of underground water
* Monitaring of agriculture
* Designing of next agrucultural development plan

2. MAJOR REASONS FOR PRESENT STATUS

3. PRINCIPAL SOURCES OF INFORMATION

①, ②

和名 ネジド地方農業開発計画

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

PROJECT SUMMARY (M/P)

MEA OMN/S 101/90

Compiled March 1992
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Oman

2. NAME OF STUDY
Port Development for Northern Oman

3. SECTOR
Transportation/ Port

4. REFERENCE NO.

5. TYPE OF STUDY: M/P

6. COUNTERPART AGENCY
Ministry of Communication
Port Service Corporation

7. OBJECTIVES OF STUDY
Feasibility study of the port development for northern Oman

8. DATE OF S/W: Jul.12, 1989

9. CONSULTANT(S)
Overseas Coastal Area Development Institute of Japan
Nippon Koei Co., Ltd.

10. STUDY TEAM

No. of Members	12
Period	Oct.1989 - Oct.1990 (13 months)
Total M/M	73.27
Japan	43.35
Field	29.92

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY
36623000yen (1 O.M.= 374yen)

12. EXPENDITURE

Total	281,838 (¥'000)
Contracted	270,491

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA
Port of Qaboos & Sohar (Northern Oman)

2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	250,597	105,443	145,154
2)			

3. MAJOR PROJECT(S) PROPOSED
1. Short-term Development Plan of the Port of Qaboos up to the year 1995.
2. Short-term Development Plan of the new port in northern Oman (Sohar) up to the year 2000.

4. CONDITIONS AND DEVELOPMENT IMPACTS
This project is important for the view point of socioeconomic development in Oman. The effect of the project is as follows; EIRR = 5.6%, FIRR = 4.62%.

5. TECHINCAL TRANSFER
Technology transport about the port development. (Feasibility Study)

III. PRESENT STATUS OF USE OF STUDY RESULTS

1. PRSENT STATUS
- [■] In Progress or In Use
- [ ] Delayed
- [ ] Discontinued

(Description)

(FY 1991 Overseas Survey)
Port improvement plan of the port of Qaboos is considered because of the increasing cargo volume.
1. As for the Port of Qaboos, a tender about expansion of the container yard and a tenderabout handling equipment for existing terminal was conducted in April 1991.
2. As for the new port in Sohar, the Government would like to authorize the plan into a five-year plan (1992-1996).

2. MAJOR REASONS FOR PRESENT STATUS
This study proposes the appropriate port development program of Qaboos.
An expansion of the port of Qaboos is needed because of increase of cargo.

3. PRINCIPAL SOURCES OF INFORMATION
①③

和名 北部地域港湾整備計画

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

PROJECT SUMMARY (M/P)

MEA OMN/A 102/90

Compiled March 1992
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Oman

2. NAME OF STUDY: A Master Plan for Agricultural Development

3. SECTOR: Agriculture/ General

4. REFERENCE NO.:

5. TYPE OF STUDY: M/P

6. COUNTERPART AGENCY: Ministry of Agriculture and Fisheries

7. OBJECTIVES OF STUDY: To provide assistance in preparing a 10-year agricultural development plan for 2000

8. DATE OF S/W: Jul. 1989

9. CONSULTANT(S): Japan Agricultural Land Development Agency (JALDA)

10. STUDY TEAM

No. of Members	12
Period	Oct. 1989 - Nov. 1990 (14
Total M/M	64.00
Japan	14.00
Field	50.00

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY: Data analysis of LANDSAT imagery

12. EXPENDITURE

Total	177,347 (¥'000)
Contracted	170,775

II. SUMMARY OF STUDY RESULTS

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)

2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS: US$1=0.384R.O

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	1,249,235	1,249,235	
2)			

3. MAJOR PROJECT(S) PROPOSED

1.Irrigation and Dam sector
Improveent of irrigation system and centrally-controlled water distribution system / Recharge dams / Sub-surface dams / Aflaj / Wells / Springs
s.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
3.Livestock sector
Animal health and disease control / Small farm development support
4.Distribution sector
Establishment of whole sale market / Fortification of PAMAP Integrated agricultural development project in Nejd

4. CONDITIONS AND DEVELOPMENT IMPACTS

(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

Conditions:

* Maintain consistency with the current, on-going third 5-year plan

* Respect Omani society, culture, customs ad lifestyle

5. TECHINCAL TRANSFER

-Cooperative work to make reports
-Acceptance of a trainee for training programme

III. PRESENT STATUS OF USE OF STUDY RESULTS

1. PRSENT STATUS
- [■] In Progress or In Use
- [ ] Delayed
- [ ] Discontinued

(Description)

"Agriculture Development Project II in Nejd Region in the Sultanate of Oman"

Period: From Jan. 1991 - 1995 (5 years)
Study Area:
Contents of the Study:
(1) Detailed design of Pilot Farm (50ha) which has been recommended in actual Master Plan study.
(2) Monitoring study of water development and farming in the Pilot Farm.
(3) Formulation of agricultural development study in whole Nejd region according to the result of above-mentioned monitoring.

(FY 1991 Overseas Survey)
The project which was suggested by the study team was adopted by the Oman government.

2. MAJOR REASONS FOR PRESENT STATUS

3. PRINCIPAL SOURCES OF INFORMATION

①, ③

和名 農業開発基本計画

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

PROJECT SUMMARY (F/S)

MEA QAT/S 301/86

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Qatar

2. NAME OF STUDY: Drainage Improvement Plan: Doha City

3. SECTOR: Public Utilities/ Sewerage

4. REFERENCE NO.:

5. TYPE OF STUDY: F/S

6. COUNTERPART AGENCY: Ministry of Electricity and Water, Water Dept.

7. OBJECTIVES OF STUDY: Determination on the actual up-rising of ground water and establishment of urgent drainage measures

8. DATE OF S/W: Oct.1985

9. CONSULTANT(S): Yachiyo Engineering Co., Ltd.

10. STUDY TEAM

No. of Members	8
Period	Dec.1985 - Apr.1987 (17 months)
Total M/M	54.10
Japan	17.42
Field	36.68

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

(1) Test construction (pumping test, periodic observation of ground water level)
(2) Geological survey

12. EXPENDITURE

Total	244,245 (¥'000)
Contracted	238,398

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA: Musherib and Rayyan, Doha City

2. PROJECT COSTS (1Q.Dinar=US$0.275)

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	16		16
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

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

Implementation Period:

4. FEASIBILITY AND ITS ASSUMPTIONS — EIRR — FIRR

Feasibility: Yes

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.

5. TECHINCAL TRANSFER

1)Training was held for one (1) trainee for the ground water up-rising problem and its measures.

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- [■] Completed or in Progress
  - ○ Completed
  - ● Implementing
  - ○ Processing
- [ ] Promoting
- [ ] Delayed or Suspended
- [ ] Discontinued or Cancelled

(Description)

(FY 1991 Overseas Survey)

1) PENCOL, England, conducted the detailed design for the drainage works in Musherib. The Ministry of Public Works, Qatar, is reviewing the works.

2) The report was presented at a regional seminar at Qatar which were attended by the representatives of neighboring countries.

3) Mangrove park project is being delayed but experts on mangrove plantation were dispatched by JICA in 1989. It is likely that the mangrove park will be completed by the use of drained ground water.

4) The project has not yet been implemented (by Nov., 1991). Temporary measures are being done for a shift against the seriously damaged area.

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.

3. PRINCIPAL SOURCES OF INFORMATION

①③

和名　ドーハ市地下水排水対策

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

PROJECT SUMMARY (D/D)

MEA SAU/S 402/90

Compiled Mar. 1992
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Saudi Arabia

2. NAME OF STUDY:
National Cancer Center: Establishment Project

3. SECTOR:
Social Infrastructures/ Architecture & Houseing

4. REFERENCE NO.:

5. TYPE OF STUDY: D/D

6. COUNTERPART AGENCY:
Ministry of Health

7. OBJECTIVES OF STUDY:
To formulate the survey on basic design for constructing the National Cancer Center of 200-bed scale in Jeddah.

8. DATE OF S/W: Aug. 1982

9. CONSULTANT(S):
Azusa Sekkei Inc.

10. STUDY TEAM

No. of Members 12
Period Nov. 1982 - Aug. 1983 (9 months)

Total M/M
Japan
Field

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

12. EXPENDITURE

Total Contracted 237,026 (¥'000)

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA
East of the old international airport in Jeddah, the area of the site is 138,703 sq.m

2. PROJECT COSTS

US$1=3.45SR

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	485,676	485,676	
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

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.

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.

Implementation Period:

4. FEASIBILITY AND ITS ASSUMPTIONS EIRR FIRR

Feasibility:

Conditions and Development Impacts:
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.

5. TECHINCAL TRANSFER
OJT on the construction planning of the specialized hospital facilities

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- ☐ Completed or in Progress
  - ○ Completed
  - ○ Implementing
  - ○ Processing
- ☐ Promoting
- ■ Delayed or Suspended
- ☐ Discontinued or Cancelled

(Description)

Because of the financing problem, the construction was delayed, but one JICA expert was dispatched as part of the health care cooperation program.

2. MAJOR REASONS FOR PRESENT STATUS

3. PRINCIPAL SOURCES OF INFORMATION

①

和名 国立がんセンター設立計画基本設計

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

PROJECT SUMMARY (D/D)

MEA SAU/S 401/90

Compiled Mar. 1992
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Saudi Arabia

2. NAME OF STUDY
General Hospital: Establishment Project

3. SECTOR
Social Infrastructures/ Architecture & Housing

4. REFERENCE NO.

5. TYPE OF STUDY: D/D

6. COUNTERPART AGENCY
Ministry of Health

7. OBJECTIVES OF STUDY
To formulate a basic design of the General Hospital adjacent to the National Cancer Centre, in Jeddah on the basis of the concept agreed upon between Japan and Saudi Arabia

8. DATE OF S/W: May 1983

9. CONSULTANT(S)
Nihon Sekkei, Inc.

10. STUDY TEAM

No. of Members	10
Period	Jul. 1983 - Nov. 1983 (5 months)
Total M/M	20
Japan	16
Field	4

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

12. EXPENDITURE
Total Contracted 66,654 (¥'000)

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA
138,703 sq.m in Jeddah (the same site for the cancer centre)

2. PROJECT COSTS — US$1=240yen=3.42SR

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	71,383	71,383	
2)			
3)			

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/or Cancer Centre should be recommended by other institutions.

Implementation Period:

4. FEASIBILITY AND ITS ASSUMPTIONS — EIRR FIRR

Feasibility: No

Conditions and Development Impacts:

1) A focal point of medical care as a central, general hospital in the western region of the Kindom.

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.

5. TECHINCAL TRANSFER
Acceptance of trainees (on medical technology)

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS
- ☐ Completed or in Progress
  - ○ Completed
  - ○ Implementing
  - ○ Processing
- ☐ Promoting
- ■ Delayed or Suspended
- ☐ Discontinued or Cancelled

(Description)

After the completion of the B/D study, the implementation was delayed.

2. MAJOR REASONS FOR PRESENT STATUS
The limitation of the public sector finace mainly caused by the decline of the oil prices

3. PRINCIPAL SOURCES OF INFORMATION
①

和名 総合病院設立計画基本設計

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

PROJECT SUMMARY (F/S)

MEA SDN/S 301 /77

Compiled March 1988
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Sudan

2. NAME OF STUDY: Road Project el Obeid-Um ruaba

3. SECTOR: Transportation/ Road

4. REFERENCE NO.:

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

No. of Members	12
Period	Apr.1977 - Mar.1978 (12 months)
Total M/M	22.10
Japan	4.30
Field	17.80

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

12. EXPENDITURE

Total	222,832 (¥'000)
Contracted	65,487

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA: Trans-African Continental Road (El Obeid - Um Ruaba about 230 km)

2. PROJECT COSTS (US$2.52=£S1)

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	40,000	12,500	
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

Contents: Construction of new DBST pavement road
Scale: 133 km
Designed speed: 80 km as average
Width: 6 meter

Implementation Period: 1976 - 1977

4. FEASIBILITY AND ITS ASSUMPTIONS — EIRR — FIRR

Feasibility:

Conditions and Development Impacts:

Premise:
Case 1: Traffic growth is 7% up to 1992, and 5% up to 2002
Case 2: 5% up to 2002

Benefit: Saving of transport expenses

5. TECHINCAL TRANSFER

Trainees: These persons were trained in methodology, highway engineering, etc.

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- ☐ Completed or in Progress
  - ○ Completed
  - ○ Implementing
  - ○ Processing
- ☐ Promoting
- ☐ Delayed or Suspended
- ■ Discontinued or Cancelled

(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 by Norwegian finance, 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).

2. MAJOR REASONS FOR PRESENT STATUS

3. PRINCIPAL SOURCES 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 March 1990
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Sudan

2. NAME OF STUDY: Rice Development Project in Abu Gasaba Basin

3. SECTOR: Agriculture/ General

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

9. CONSULTANT(S): Nippon Koei Co.,Ltd.

10. STUDY TEAM

No. of Members 11
Period May.1977 - Oct.1979 (30 months)

Total M/M
Japan
Field

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY:

12. EXPENDITURE

Total 194,729 (¥'000)
Contracted 153,009

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA

About 20,000ha along White Nile, 200km south of the capital Khartum.

2. PROJECT COSTS

US$1=0.39SP.

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	210,760	73,260	137,500
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

1.Irrigation Area : 15,600 ha
2.Irrigation Canal : Main canal 52km, Feeder canal 121km
3.Drainage Canal : Main canal 73km, Feeder canal 103km
4.Road : Main road 206km, Farm road 260km
5.Embankment : height 2.5-4.5m, length 155km
6.Pump station : 14 caliber 1,000-1,100mm
total discharge 2,100 cu. m/min.
7.Rice processing facilities : 3, 20t/hr

Implementation Period: May.1978 - Jun.1986

4. FEASIBILITY AND ITS ASSUMPTIONS

EIRR 17.6% FIRR

Feasibility: Yes

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

5. TECHINCAL TRANSFER

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- ■ Completed or in Progress
- ● Completed
- ○ Implementing
- ○ Processing
- □ Promoting
- □ Delayed or Suspended
- □ Discontinued or Cancelled

(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)

2. MAJOR REASONS FOR PRESENT STATUS

3. PRINCIPAL SOURCES OF INFORMATION

①②

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 March 1991
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Sudan

2. NAME OF STUDY: Construction of the New White Nile Bridge

3. SECTOR: Transportation/ Road

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

9. CONSULTANT(S): Nippon Koei Co., Ltd.
Central Consultant Inc.

10. STUDY TEAM

No. of Members	11
Period	Dec.1988 - Mar.1990 (15.25
Total M/M	59.96
Japan	16.13
Field	43.83

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

- Topographic Survey
- Subsoil Investigation
- Traffic Survey

12. EXPENDITURE

Total	247,869 (¥'000)
Contracted	217,440

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA: Khartoum and Omdurman cities

2. PROJECT COSTS

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	74,551	28,911	45,640
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

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.

Approach : Omdurman side = 2,285 m
Khartoum side = 1,357 m

Intersection : 2 at-grade intersections (Omdurman and Khartoum)

Implementation Period: Aug. 1991 - Mar.1995

4. FEASIBILITY AND ITS ASSUMPTIONS

EIRR	FIRR
17.7%	

Feasibility:

Conditions and Development Impacts:

- To releave traffic congestion in Greater Khartoum
- To allow heavy vehicles to pass over the White Nile
- To enlarge the traffic capacity over the White Nile
- To enable rehabilitation works of the existing bridge, by distributing traffic between the existing bridge and the new bridge
- To facilitate the urban development in Omdurman
- An appropriate town plan should be prepared before the completion of the bridge.

5. TECHINCAL TRANSFER

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.
Khatoum University made a model of the New White Nile bridge for a teaching material of faculty of engineering.

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- ☐ Completed or in Progress
- ○ Completed
- ○ Implementing
- ○ Processing
- ■ Promoting
- ☐ Delayed or Suspended
- ☐ Discontinued or Cancelled

(Description)

The costs of D/D and construction are expected to be financed by Japanese grant aid. Disbursements have been postponed due to political destabilization.

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.

3. PRINCIPAL SOURCES OF INFORMATION

①

和名 新白ナイル橋建設計画

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

PROJECT SUMMARY (Basic Study)

MEA TUN/S 501 /87

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Tunisia

2. NAME OF STUDY: Projet de Cartographie Topographique

3. SECTOR: Social Infrastructures/ Survey & Mapping

4. REFERENCE NO.:

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)
Total M/M	109.92
Japan	21.49
Field	88.43

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY:

12. EXPENDITURE

Total Contracted	497,253 (¥'000)

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA: Entire country

2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	2,937	2,472	465
2)			

3. MAJOR PROJECT(S) PROPOSED

1) National maps (scale: 1/200,000) covering 83,000 sq. km
2) Aerophotos covering 165,000 sq. km

4. CONDITIONS AND DEVELOPMENT IMPACTS

The maps will provide the basis for national development planning.

5. TECHINCAL TRANSFER

III. PRESENT STATUS OF USE OF STUDY RESULTS

1. PRSENT STATUS
- ■ In Progress or In Use
- ☐ Delayed
- ☐ Discontinued

(Description)

(FY1991 Overseas Survey)
1) The maps prepared by this study has 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.

2. MAJOR REASONS FOR PRESENT STATUS:

3. PRINCIPAL SOURCES OF INFORMATION

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 March 1992
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Tunisia

2. NAME OF STUDY:
Construction of the Rades-La Goulette Connection Facility

3. SECTOR:
Transportation/ Road

4. REFERENCE NO.:

5. TYPE OF STUDY: F/S

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.1988

9. CONSULTANT(S):
Pacific Consultants International
Nippon Koei Co., Ltd.

10. STUDY TEAM

No. of Members	12
Period	Aug.1989 - Dec.1990 (17 months)
Total M/M	46.56
Japan	17.96
Field	28.60

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY:
Traffic Survey
Boring Survey

12. EXPENDITURE

Total	179,909 (¥'000)
Contracted	160,000

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA:
Western part of Rades port, Tunisia

2. PROJECT COSTS

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	71,734	49,712	22,022
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)
-Cable stayed concrete bridge of 300m (75m+150m+75m)
-Access viaducts of 1,300m, access road of 4,100m
Total extension: 5,700m (4 lanes)

Implementation Period: 1991 - 1996

4. FEASIBILITY AND ITS ASSUMPTIONS

EIRR: 15%
FIRR:

Feasibility:

Conditions and Development Impacts:
Conditions:
-Construction of the highway deviation around the town of La Goulette and its extension towards Carthage.
-Supplementary borings.

Impacts:
-Balanced development of Tunis agglomeration.
-Relief of traffic in the city center.

5. TECHINCAL TRANSFER
1. Accepting of counterpart trainees.
2. Utilization of local consultants.

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS
- ☐ Completed or in Progress
- ○ Completed
- ○ Implementing
- ○ Processing
- ■ Promoting
- ☐ Delayed or Suspended
- ☐ Discontinued or Cancelled

(Description)

1. Formal request of loan from Tunisian Government was submitted to Japanese Government.
2. 4 ministries scheduled to be held.

<FY1991 Overseas Survey>
3. The Tunisian Government is under reconsideration as one of priority projects in the 8th Five-Year Plan.
4. The project was not modified. It depends on Tunisian economic circumstances.

2. MAJOR REASONS FOR PRESENT STATUS

3. PRINCIPAL SOURCES OF INFORMATION
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 TUR/S 101/85

Compiled March 1988
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Turkey

2. NAME OF STUDY: Ankara Air Pollution Control Project

3. SECTOR: Administration/ Environmental Problems

4. REFERENCE NO.:

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

8. DATE OF S/W: Jul.1983

9. CONSULTANT(S): Pacific Consultants International
Japan Environment Assessment Center Co., Ltd.

10. STUDY TEAM

No. of Members	19
Period	Nov.1984 - Dec.1985 (12.5
Total M/M	25.84
Japan	0
Field	25.84

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY:

12. EXPENDITURE

Total	212,875 (¥'000)
Contracted	204,320

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA: Ankara

2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS

	Total Cost	Local Cost	Foreign Cost
(US$1,000)	1)		
	2)		

3. MAJOR PROJECT(S) PROPOSED

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. CONDITIONS AND DEVELOPMENT IMPACTS

To ease air pollution by well-organized fuel management

5. TECHINCAL TRANSFER

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

III. PRESENT STATUS OF USE OF STUDY RESULTS

1. PRSENT STATUS

- ☐ In Progress or In Use
- ☐ Delayed
- ■ Discontinued

(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.

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.

3. PRINCIPAL SOURCES OF INFORMATION

①

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 March 1990
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Turkey

2. NAME OF STUDY: Adatepe Irrigation Project

3. SECTOR: Agriculture/ General

4. REFERENCE NO.:

5. TYPE OF STUDY: F/S

6. COUNTERPART AGENCY: Su Isleri, General Directorate of State Hydraulic Works

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.

8. DATE OF S/W: Jun.1988

9. CONSULTANT(S):
Chuo Kaihatsu Corporation
Naigai Engineering Co.,Ltd.

10. STUDY TEAM

No. of Members	9
Period	Sep.1988 - Dec.1989 (16 months)
Total M/M	58.00
Japan	20.50
Field	37.50

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY:
Topo-mapping
Test drilling(2 sites)

12. EXPENDITURE

Total	183,836 (¥'000)
Contracted	97,211

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA:
Central Kahraman Maras province
(600 sq.km, population 75,000)

2. PROJECT COSTS — US$1=1,220.7TL in 1988

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	153,270	46,940	106,330
2)			
3)			

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)

Implementation Period: Jan.1991 - Dec.1998

4. FEASIBILITY AND ITS ASSUMPTIONS — EIRR 15.0% FIRR 12.4%

Feasibility:

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

5. TECHINCAL TRANSFER
-Training in Japan (3 persons) -OJT
-Attendance at International Conference on Irrigation and Drainage in Tokyo

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS
- ☐ Completed or in Progress
  - ○ Completed
  - ○ Implementing
  - ○ Processing
- ☐ Promoting
- ■ Delayed or Suspended
- ☐ Discontinued or Cancelled

(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.

2. MAJOR REASONS FOR PRESENT STATUS
Described as above.

3. PRINCIPAL SOURCES OF INFORMATION
①

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 March 1992
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Turkey

2. NAME OF STUDY
Development Project of Filyos Port

3. SECTOR
Transportation/ Port

4. REFERENCE NO.

5. TYPE OF STUDY: M/P+(F/S)

6. COUNTERPART AGENCY
DLH, General Directorate of Railways, Ports and Airports Construction for the Ministry of Transport

7. OBJECTIVES OF STUDY
1) To prepare a port development strategy including a new port development to transport port-cargo efficiency to and from the Ankara Metropolitan Area (hereinafter referred to as the AMA) and it adjacent areas; and
2) To formulate a master plan and to carry out a feasibility study short-term development plan for a possible new port (Filyos Port).

8. DATE OF S/W: Dec.8, 1989

9. CONSULTANT(S)
Overseas Coastal Area Development Institute of Japan
Japan Port Consultants Co., Ltd.

10. STUDY TEAM

No. of Members	12
Period	Nov.1989 - Feb.1991 (15 months)
Total M/M	86.28
Japan	40.39
Field	45.89

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY
-Wave observation
-Sounding
-Boring

12. EXPENDITURE

Total	329,380 (¥'000)
Contracted	326,800

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA
Filyos, Turkey

2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	410,000	140,000	270,000
2)			

3. MAJOR PROJECT(S) PROPOSED

1st stage (by 2000)	2nd stage (by 2010)
1) Container Terminal for 97 thousand TEUs (feeder service)	: for an additional 173 thousand TEUs (feeder + direct calling)
2) General Cargo Berth for 0.8 million tons	: No addition
3) Dry Bulk Terminals and Product Berth 5.5 million tons for the Karabuk Steel Works	: Terminals for Port-Industry Complex to handle 15 million tons
	: Estate for Industrial Complex
4) Supporting infrastructure	: Supporting infrastructure

4. CONDITIONS AND DEVELOPMENT IMPACTS

Conditions:
Economic Growth Rate: 5 - 7%
Cargo Demand (2000)
Container: 97000 TEU ; Others : 4320000 Tons

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 stimulated industrial investment, and thus this will expedite the development of the regions. The possible industrial complexes locatable at the port site in early stage are:
1) Food processing complex
2) Wood processing complex
3) Shipbuilding and repairing unit
The possible industrial complexes locatable in the vicinity of the port in later stage are:
1) Iron and steel complex
2) Processing of local resources depending on thermal electric power
3) Petroleum complex

5. TECHINCAL TRANSFER
Through discussion with couterpart, we conducted technical transfer by transmitting our idea of the study method and so on. Seminars regarding technical matters, for example, port planning, economic & financial analysis, were held twice during the study.

III. PRESENT STATUS OF USE OF STUDY RESULTS

1. PRSENT STATUS
- [x] In Progress or In Use
- [ ] Delayed
- [ ] Discontinued

(Description)
Implementation of Filiyos Port project was postponed, while expansion of Iskendern Port will be done in order to handle expected increasing cargo volume.
Concerning expansion project of Iskendern Port, the Government of Turkey has already submitted the official request to the Embassy of Japan. (JICA has not received it yet.)

2. MAJOR REASONS FOR PRESENT STATUS
1) Expansion of exisint port was chosen for handling increasing cargo volume.
2) A New Port Project requires a large amount of cost and time.

3. PRINCIPAL SOURCES OF INFORMATION
①

和名 フィリオス港建設計画

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

PROJECT SUMMARY (M/P + F/S)

MEA TUR/S 201B/90

Compiled March 1992
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Turkey

2. NAME OF STUDY: Development Project of Filyos Port

3. SECTOR: Transportation/ Port

4. REFERENCE NO.:

5. TYPE OF STUDY: (M/P)+F/S

6. COUNTERPART AGENCY: DLH, General Directorate of Railways, Ports and Airports Construction for the Ministry of Transport

7. OBJECTIVES OF STUDY

1) To prepare a port development strategy including a new port development to transport-cargo efficiency to and from the Ankara Metropolitan Area (hereinafter referred to as the AMA) and it adjacent areas; and
2) To formulate a master plan and to carry out a feasibility study short-term development plan for a possible new port (Filyos Port).

8. DATE OF S/W: Dec.8, 1989

9. CONSULTANT(S)

Overseas Coastal Area Development Institute of Japan
Japan Port Consultants Co., Ltd.

10. STUDY TEAM

No. of Members	12
Period	Nov.1989 - Feb.1991 (15 months)
Total M/M	86.28
Japan	40.39
Field	45.89

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

-Wave observation
-Sounding
-Boring

12. EXPENDITURE

Total	329,380 (¥'000)
Contracted	326,800

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA: Filyos, Turkey

2. PROJECT COSTS

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	410,000	140,000	270,000
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

	1st stage (by 2000)	2nd stage (by 2010)
1)	Container Terminal for 97 thousand TEUs (feeder service)	for an additional 173 thousand TEUs (feeder + direct calling)
2)	General Cargo Berth for 0.8 million tons	No addition
3)	Dry Bulk Terminals and Product Berth 5.5 million tons for the Karabuk Steel Works	Terminals for Port-Industry Complex to handle 15 million tons
		Estate for Industrial Complex
4)	Supporting infrastructure	Supporting infrastructure

Implementation Period: 1991 ~ 2000

4. FEASIBILITY AND ITS ASSUMPTIONS

EIRR	FIRR
21%	5.7%

Feasibility:

Conditions and Development Impacts:

Conditions:
Economic Growth Rate: 5 - 7%
Cargo Demand (2000)
Container: 97000 TEU ; Others : 6320000 Tons

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 stimulated industrial investment, and thus this will expedite the development of the regions. The possible industrial complexes locatable at the port site in early stage are:
1) Food processing complex 2) Wood processing complex 3) Shipbuilding and repairing unit
The possible industrial complexes locatable in the vicinity of the port in later stage are: 1) Iron and steel complex 2) Processing of local resources depending on thermal electric power 3) Petroleum complex

5. TECHINCAL TRANSFER

Through discussion with counterpart, we conducted technical transfer by transmitting our idea of the study method and so on. Seminars regarding technical matters, for example, port planning, economic & financial analysis, were held twice during the study.

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- ☐ Completed or in Progress
  - ○ Completed
  - ○ Implementing
  - ○ Processing
- ☐ Promoting
- ■ Delayed or Suspended
- ☐ Discontinued or Cancelled

(Description)

Implementation of Filiyos Port project was postponed while expansion of Iskendern Port will be done in order to handle expected increasing cargo volume.
Concerning expansion project of Iskendern Port, the Government of turkey has already submitted the official request to the Embassy of Japan. (JICA has not received it yet.)

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 SOURCES OF INFORMATION

①

和名 フィリオス港建設計画

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

PROJECT SUMMARY (F/S)

MEA ARE/S 301/81

Compiled March 1986
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY United Arab Emirates

2. NAME OF STUDY

Wadi al Bassierah Basin Water Resources Development Project

3. SECTOR

Social Infrastructures/ Water Resource Development

4. REFERENCE NO.

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

9. CONSULTANT(S)

Sanyu Consultants Inc.

10. STUDY TEAM

No. of Members	
Period	Dec.1979 ~ Dec.1981 (24 months)
Total M/M	41.27
Japan	21.04
Field	20.23

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

12. EXPENDITURE

Total	240,115 (¥'000)
Contracted	211,458

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA

Wadi Al Bassierah Basin (old name: Wadi Shimal Basin, Fvjeirah Emirate, UAE)

2. PROJECT COSTS

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	13,492		
2)	13,273		
3)	13,383		

3. CONTENTS OF MAJOR PROJECT(S)

Contents		Dam Height (m)	Cost Length (m)	Scale Reserved Cap (million cu.m)
Construction of a dam		19.5	900	2.5
Construction of a farm pond		7.5	2,000	1.5
Construction of an irrigation facility				
Plan A	Vegetables		75ha	
Plan B	Fruits		65ha	
Plan C	Vegetables		30ha	
	Fruits		40ha	

Implementation Period: Apr.1981 ~ Jun.1983

4. FEASIBILITY AND ITS ASSUMPTIONS EIRR FIRR

Feasibility: Yes

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 1.3-6.4DH.
-No IRR analysis was made.

5. TECHINCAL TRANSFER

No benefit of technical transfer for UAE was found, since most of counter partners are temporary immigrants from Egypt, Lebanon, etc.

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- [■] Completed or in Progress
- [○] Completed
- [○] Implementing
- [●] Processing
- [□] Promoting
- [□] Delayed or Suspended
- [□] Discontinued or Cancelled

(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.

(1991 Overseas Survey)
In 1989, UAE government requested Japanese government to resume the project. In 1990 UAE government was planned to resume the dam project. Sanyu consultant is requested to re-survey this project, since the last survey is out of date.

2. MAJOR REASONS FOR PRESENT STATUS

Situation in UAE: because of reduction in National Budget, the execution of the project was suspended.

3. PRINCIPAL SOURCES OF INFORMATION

①③

和名 水資源開発計画

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

MEA ARE/S 401/81

PROJECT SUMMARY (D/D)

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY United Arab Emirates

2. NAME OF STUDY
Al Bassierah Dam Project

3. SECTOR
Social Infrastructures/ Water Resource Development

4. REFERENCE NO.

5. TYPE OF STUDY D/D

6. COUNTERPART AGENCY
Ministry of Agriculture and Fisheries

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

9. CONSULTANT(S)
Sanyu Consultants Inc.

10. STUDY TEAM

No. of Members 8
Period Apr.1981 - Feb.1982 (9.5

Total M/M	20.6
Japan	14.1
Field	6.5

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

12. EXPENDITURE

Total	45,279 (¥'000)
Contracted	43,241

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA
Wadi Al Bassierah Basin

2. PROJECT COSTS (US$1=3.6DH)

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	7,191		
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

Scale

	Dam Height (m)	Crest Length (m)	Reservoir Cap. (million cu.m)
Al Bassierah Dam	19.5	900	2.5
Al Fay Pond			1.5
(Ground water Recharge Facilities)			
Irrigation Facility and Farm		75ha	

Implementation Period: Nov.1982 - Jun.1983

4. FEASIBILITY AND ITS ASSUMPTIONS EIRR FIRR

Feasibility: Yes

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.

5. TECHINCAL TRANSFER
1. Transfer of geological investigation method to local consultants.
2. Supply of equipment and guidance for electrical investigation technology.

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- [■] Completed or in Progress
  - ○ Completed
  - ○ Implementing
  - ● Processing
- [ ] Promoting
- [ ] Delayed or Suspended
- [ ] Discontinued or Cancelled

(Description)

1. The feasibility study was carried out as water resources development project.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 the intent of Japan, disiring to restore the project in 1989 with the result of negative response.
3. SCI executive visited for negotiation at the invitaion of UAE, This was unsuccessful due to the consultancy fee. UAE is said to have entered into a negotiation with a UK consultant, the resut of which is unknown.

(FY 1991 Overseas Survey)
This dam project was planned to resume in 1990. Researchers of UAE state that re-survey of this area is necessary. The construction company is discussing with UAE government on practicing this project.

2. MAJOR REASONS FOR PRESENT STATUS

3. PRINCIPAL SOURCES OF INFORMATION
①③

和名 アル・バセイダラム建設計画実施設計

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

MEA ARE/A 401/85

PROJECT SUMMARY (D/D)

Compiled March 1990
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: United Arab Emirates
2. NAME OF STUDY: (Mariculture Center)
3. SECTOR: Fisheries/ Fisheries
4. REFERENCE NO.:
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
10. STUDY TEAM

No. of Members	6
Period	Jul.1980 - Jul.1980 (.7 months)
Total M/M	100.00
Japan	15.00
Field	6.00

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY:
12. EXPENDITURE: Total Contracted 202,224 (¥'000)

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA: U.A.E. Umm Al Queen, located 50km north of Dubai on the Gulf of Arabia

2. PROJECT COSTS (US$1,000)

	Total Cost	Local Cost	Foreign Cost
1)	996	996	
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

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 pond(4)

Implementation Period:

4. FEASIBILITY AND ITS ASSUMPTIONS: EIRR FIRR

Feasibility:

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.

5. TECHINCAL TRANSFER
-Dispatching marine specialists
-Accepting trainee (1) JICA

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS
- [■] Completed or in Progress
  - (●) Completed
  - ( ) Implementing
  - ( ) Processing
- [ ] Promoting
- [ ] Delayed or Suspended
- [ ] Discontinued or Cancelled

(Description)

As there are no such centers of this scale along the coast of Arabia, the center is receiving visitors also from neighboring countries, wishing to construct similar facilities.
JICA has been sending marine specialists to the U.A.E.'s Ministry of Agriculture and Fishery since before, and with the completion of the center, the number of specialists has increased to 3-4, conducting technical transfer to the local staff using the modern facilities.
The dispatching of marine specialists from JICA is being continued, however the number is not clear.

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 SOURCES OF INFORMATION

①, ③

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 March 1990
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Yemen

2. NAME OF STUDY: Hajjah Province Integrated Rural Development

3. SECTOR: Agriculture/ General

4. REFERENCE NO.:

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)
Total M/M	83.20
Japan	57.33
Field	25.87

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

12. EXPENDITURE

Total	256,701 (¥'000)
Contracted	177,514

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA

Hajjah Province is locatd at north-west part of Yemen. Its capital, Hajjah city, is 70km away by a straight distance from state capital, Sanaa.

2. COSTS OF PROPOSED PLAN OR MAJOR PROJECTS

US$1-4.51YR.

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	56,000		
2)			

3. MAJOR PROJECT(S) PROPOSED

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. 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 countires, and to stabilize social infrastructure.

5. TECHINCAL TRANSFER

- Exchange and transfer of knowledge and technology by living and working with counterparts during the study period.
- Counterpart training in Japan.

III. PRESENT STATUS OF USE OF STUDY RESULTS

1. PRSENT STATUS

- [■] In Progress or In Use
- [ ] Delayed
- [ ] Discontinued

(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 Agriculutural Development Plan for Sana'a, Sadah and Hajjah Provinces) of ARDA. Major components of the master plan are as follows.

Simple waterworks	Financed by the Arab Fund
Road network improv.	Financing source unknown
Irrigation improv. (Pilot Project)	Financed by IDA
Agri. Mechanization Center	Financed by IDA
Water resource dev.	Financed by UNDP

2. MAJOR REASONS FOR PRESENT STATUS

3. PRINCIPAL SOURCES OF INFORMATION

①③

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 March 1988
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY Yemen

2. NAME OF STUDY
Rural Water Supply Project Part 2

3. SECTOR
Public Utilities/ Water Supply

4. REFERENCE NO.

5. TYPE OF STUDY F/S

6. COUNTERPART AGENCY
Rural Water Supply Department, Ministry of Public Works

7. OBJECTIVES OF STUDY
Hydrology
Hydrzulics Geology

8. DATE OF S/W Dec.1978

9. CONSULTANT(S)
Pacific Consultants International

10. STUDY TEAM

No. of Members	8
Period	Sep.1979 - May 1980 (8 months)
Total M/M	39.60
Japan	19.00
Field	20.60

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY
none

12. EXPENDITURE

Total	109,604 (¥'000)
Contracted	98,313

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA
Hajja(5site), Al-Mahwee(4sites), Sana'a(4sites), Hodeidah(3sites), Taiz(10sites)

2. PROJECT COSTS (US$1=5RY)

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	18,140		
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

Deep well construction		60m-300m	26 sites
Submersible pumps		19kw-30kw	26 sites
Water storage tanks		948ton-10ton	26 sites
Pipeline	Total:	175.2km for	26 sites

Implementation Period: Jan.1982 -

4. FEASIBILITY AND ITS ASSUMPTIONS EIRR FIRR

Feasibility: Yes

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.

5. TECHINCAL TRANSFER
1) OJT is effective but careful selection is needed.
2) Training in Japan should be short-term due to quite different living conditions.

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- ■ Completed or in Progress
  - ● Completed
  - ○ Implementing
  - ○ Processing
- □ Promoting
- □ Delayed or Suspended
- □ Discontinued or Cancelled

(Description)

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.

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.
4) Counterpart agency is perticularly strong within the Ministry of Public Works.

3. PRINCIPAL SOURCES OF INFORMATION

①③

和名 地方水道計画（パート2）

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

PROJECT SUMMARY (F/S)

MEA YEM/S 301/82

Compiled March 1988
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY: Yemen

2. NAME OF STUDY: 7th Berth Construction Project of the Port of Hodeidah

3. SECTOR: Transportation/ Port

4. REFERENCE NO.:

5. TYPE OF STUDY: F/S

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

9. CONSULTANT(S)

Overseas Coastal Area Development Institute of Japan
Kiso-Jiban Consultants Co., Ltd.

10. STUDY TEAM

No. of Members 6
Period Nov.1981 - Mar.1982 (3 months)

Total M/M 60.73
Japan 41.51
Field 19.22

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

none

12. EXPENDITURE

Total 164,390 (¥'000)
Contracted 151,107

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA

Port of Hodeidah

2. PROJECT COSTS (US$1=4.5YR)

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	296,464	116,656	
2)			
3)			

3. CONTENTS OF MAJOR PROJECT(S)

- Short-term Plan by 1986
  - Container Terminal 1 (-10m, 250m)
  - RO/Ro Terminal 1 (-7.5m, 160m)
  - Channel -9.5m, 100m wide
- 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),

Implementation Period: 1982 - 1986

4. FEASIBILITY AND ITS ASSUMPTIONS — EIRR — FIRR

Feasibility:

Conditions and Development Impacts:

Cargo volume is estimated at 2.57 million tons (1986) and 5.82 million tons (2000).
Development Effects;
1) alleviation of the port congestion expected in the future
2) modernization of shipping sector through containerization on the Red Sea Coast

5. TECHINCAL TRANSFER

- Counterpart training in Japan
- Seminar and OJT

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- [■] Completed or in Progress
  - (●) Completed
  - ( ) Implementing
  - ( ) Processing
- [ ] Promoting
- [ ] Delayed or Suspended
- [ ] Discontinued or Cancelled

(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 (electricity, lighting, water supply & drainage)	1set
Container Crane	1unit		
Building	1unit	Cargo handling equip.	1set

The Government of Yemen is currently deliberating whether the implementaton proceed 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.

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-exparting countries.

3. PRINCIPAL SOURCES OF INFORMATION

①③

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 March 1988
Revised March 1992

I. OUTLINE OF STUDY

1. COUNTRY Yemen

2. NAME OF STUDY
Rural Telecommunications Network

3. SECTOR
Communications & Broadcasting/ Telecommunication

4. REFERENCE NO.

5. TYPE OF STUDY F/S

6. COUNTERPART AGENCY
Ministry of Communication and Transport (MOC), Public Telecommunications

7. OBJECTIVES OF STUDY
Feasibility study on rural telecommunications network

8. DATE OF S/W Jun.1984

9. CONSULTANT(S)
Nippon Telecommunication Consulting Co., Ltd.

10. STUDY TEAM

No. of Members	12
Period	Aug.1984 - Mar.1985 (7 months)
Total M/M	39.94
Japan	18.34
Field	21.60

11. ASSOCIATED AND/OR SUBCONTRACTED STUDY

12. EXPENDITURE

Total	115,983 (¥'000)
Contracted	103,482

II. SUMMARY OF STUDY RESULTS

1. SITE OR AREA
Sana'a, Dhamar, Ibb, Taizz, Hudaydah, Hajjah

2. PROJECT COSTS (US$1=242.75Yen)

(US$1,000)	Total Cost	Local Cost	Foreign Cost
1)	32,964	7,848	25,116
2)			
3)			

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

Implementation Period: 1985 - 1989

4. FEASIBILITY AND ITS ASSUMPTIONS

EIRR	FIRR
11.91%	7.43%

Feasibility: Yes

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.

5. TECHINCAL 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

III. PRESENT STATUS OF STUDIED PROJECT

1. PRSENT STATUS

- [■] Completed or in Progress
- [●] Completed
- [○] Implementing
- [○] Processing
- [□] Promoting
- [□] Delayed or Suspended
- [□] Discontinued or Cancelled

(Description)

(FY1991 Overseas Survey)
At the stage of the basic design, the project components were changed as follows.

	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)

The construction was completed as shown below.

	Phase 1	phase 2
E/N signing	June '89	June'90
Contract	Feb.'90	Dec.'90
Completion	Mar.'91	Mar.'92

Ministry of Comm. and Transport has requested in Oct.1991 a Japanese grant for the construction of 159 additional subscriber stations and 2 small-sacle satelite stations in the eastern region of Yemen.

2. MAJOR REASONS FOR PRESENT STATUS

1) Effectiveness
2) High priority

3. PRINCIPAL SOURCES OF INFORMATION

①③

和名 地方電気通信網整備計画

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