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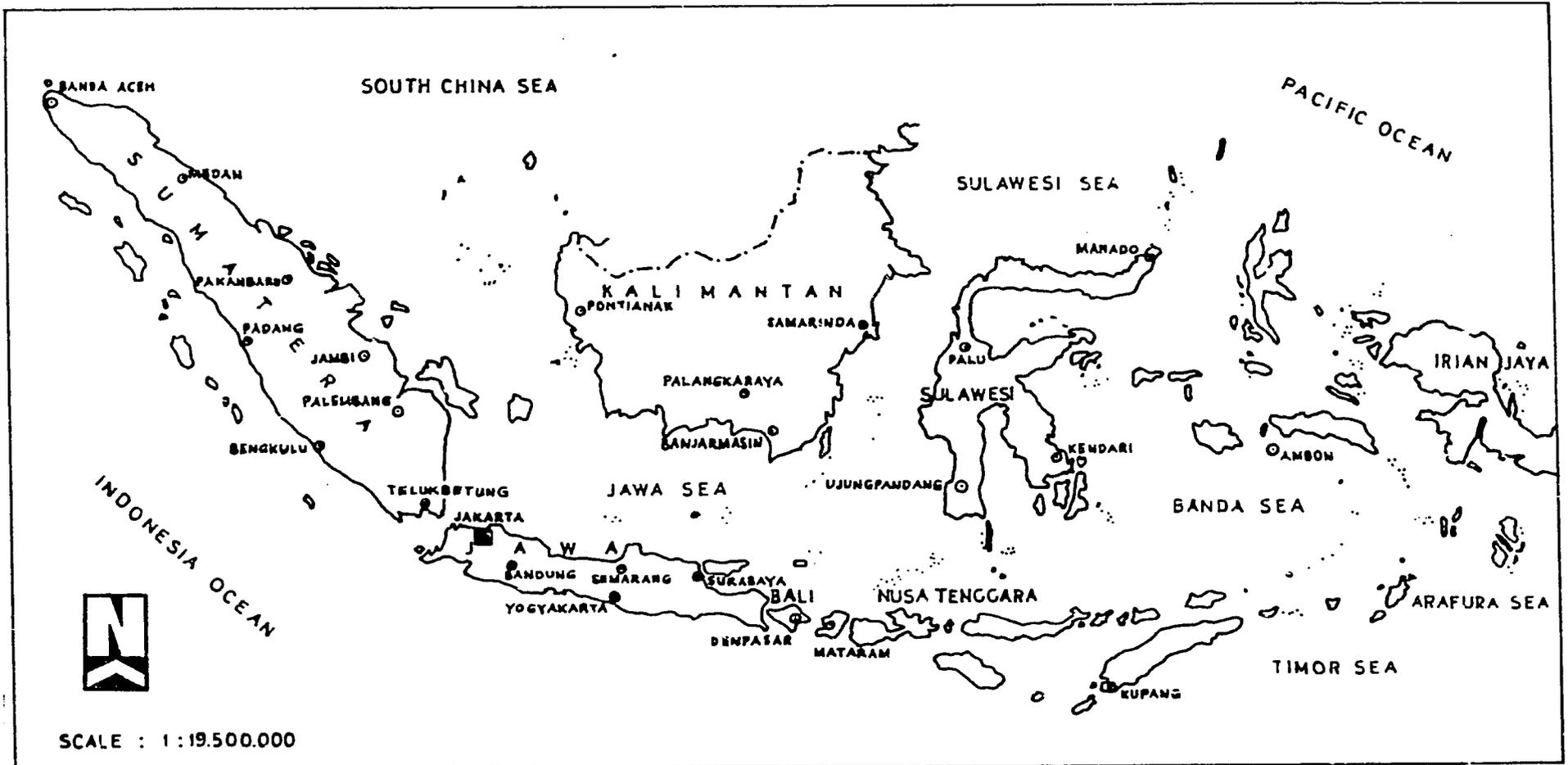
THE UNITED STATES OF AMERICA AGENCY FOR INTERNATIONAL DEVELOPMENT
and
THE DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
of the
MINISTRY OF PUBLIC WORKS
representing
MINISTRY OF PUBLIC WORKS AND THE MINISTRY OF AGRICULTURE
GOVERNMENT OF INDONESIA

PROJECT NO. 497-0252
SEDERHANA IRRIGATION AND LAND DEVELOPMENT II

MONTHLY PROGRESS REPORT NO. 19
FOR PERIOD
JANUARY 1, 1982 - JANUARY 31, 1982

INTERNATIONAL ENGINEERING COMPANY, INC.
in association with
SINOTECH ENGINEERING CONSULTANTS, INC.,
SANGKURIANG LTD., ARCHITECTS AND CONSULTING ENGINEERS
and
INDRA DEVELOPMENT CONSULTANTS
JAKARTA, INDONESIA

INDONESIA



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I. INTRODUCTION

The Contract between the United States of America, Agency for International Development (USAID) and International Engineering Company, Inc. (IECO) includes technical advisory services for Project No. 497-0252 Sederhana Irrigation and Land Development II. The scope of services is outlined in detail in Appendix A of the Contract. Performance of the work, within the terms of the Contract, is subject to the technical direction of the Government of Indonesia (GOI) through the Ministry of Public Works and the Ministry of Agriculture. Portions of the work, as set forth in the Contract, are sub-contracted to Sinotech Engineering Consultants, Inc., Sangkuriang Ltd., Architects and Consulting Engineers, and Indra Development Consultants.

The Contract described above was signed on July 21, 1980 and the Effective Date of the Contract is July 10, 1981. Amendment No. 1 to the Contract effective October 27, 1980, was signed on November 13, 1980. Amendment No. 2 effective July 1, 1981, was signed on October 20, 1981.

This nineteenth Monthly Report is submitted in accordance with Appendix A, Article K, Subarticle a of the Contract. It covers major events from January 1 through January 31, 1982 and includes progress on various aspects of services. Information on personnel in Indonesia and man-months expended is presented in the appendices at the back of this report.

II. SUMMARY OF CONSULTANT'S ACTIVITIES

The main activities during the reporting period were concerned with sub-project inspections, subproject design reviews, certification of completed works, program monitoring, updating the tertiary inventory and updating the status of active subprojects.

Visits were made by the Central Advisory Team to Provincial and Regional Offices in Medan, North Sumatra; Bandung, West Java; Manado, North Sulawesi; and Ternate, Maluku.

The Provincial Irrigation Engineers and Area Engineers performed subproject inspections in North Sumatra, West Sumatra, Bengkulu, Lampung, West Java, North Sulawesi, South Sulawesi and West Nusa Tenggara; design reviews in North Sumatra, West Sumatra, Lampung and North Sulawesi; and certifications in North Sumatra, West Sumatra, Yogyakarta, and West Nusa Tenggara.

The Regional Agricultural Teams performed subproject inspections in North Sumatra, South Sumatra, Lampung, West Java, North Sulawesi, South Sulawesi; and West Nusa Tenggara; and design reviews in North Sumatra.

Provincial Irrigation Engineers and Regional Agricultural Teams were given further instruction regarding their respective programs including area of responsibility, work schedules and priorities. Special emphasis was given to completing lists of tertiary works to be implemented in 1982/83 and 1983/84, and major works which can be completed by 1984 in order to qualify for reimbursement under the Sederhana II loan. The status of active subprojects was updated and submitted to DGWRD and USAID.

A major effort continued through most of the reporting period to prepare detailed programs for certification of major works and tertiary works constructed by DPU. A list of potential certifications for submittal by June 1982 and cost estimates for total amounts of expected reimbursement were included in the programs.

III. ADMINISTRATIVE AND SUPPORT ACTIVITIES

The activities of the Jakarta Office during the reporting period were concerned with providing technical and administrative support to the on-going program, program monitoring, preparing certifications for submittal to DGWRD, meeting with DGWRD, DGFC and USAID officials concerning the program, and preparing for the Provincial Engineers Conference and the Joint Agricultural Conference.

Sinotech, Sangkuriang and I.D. Consultants representatives visited the office of the Consultants during the reporting period.

Mr. C.E. Aksamit, Resident Manager, was in the United States for medical treatment for the entire month of January, and is expected to return to Indonesia in early February, 1982. During his absence, Mr. J.A. Erickson was Acting Resident Manager from January 1 to 8, and Mr. B.C. Ferguson from January 9 to 31.

Mr. J.D. Sabiniano, Irrigation Design Engineer (Surveys), was confined to quarters for the entire month of January, following his heart attack on December 16, 1981.

Dewi M., Secretary/Typist in Jakarta, resigned her position and departed on January 14, 1982.

Herlina P. Dewi, Clerk/Typist, reported to work in Jakarta on January 25, 1982.

Mr. J.Y. Hsu, Water User Association Advisor, returned from Official R & R Leave on January 9, 1982.

Mr. B.C. Ferguson, Assistant Resident Manager, returned from Official R & R Leave on January 8, 1982.

Mr. C.F. Sayer, Provincial Irrigation Engineer for Ujung Pandang returned from Official R & R Leave on January 5, 1982.

Mr. S.D. Scully, Agriculturist for Ujung Pandang returned from Official R & R Leave on January 8, 1982.

Mr. K.F. Jeng, Agricultural Engineer for Manado, returned from Official R & R Leave on January 5, 1982.

Mr. A.H. Lo, Agricultural Engineer for Palembang, was absent on Vacation Leave from January 19 to 28, 1982.

Mr. C.C. Tai, Agricultural Engineer for Ujung Pandang, was absent on Vacation Leave from January 19 to 29, 1982.

Mr. S.M. Lee, Land Development Engineer for Jakarta Central Office, was absent on Vacation Leave from January 21 to 27, 1982.

3.1 SUPPORT ACTIVITIES

From January 18 to 22, 1982, Mr. R.E. Dixon, Area Engineer, Ir. Wahyu A., Irrigation Engineer and Mr. F.B. Regonas, Provincial Irrigation Engineer, visited the Provincial Public Works Office in Ternate, North Maluku. On January 19, 1982, discussions were held with the Provincial Chief of Public Works and staff regarding Subproject Major Works and Tertiary planning and construction implementation progress. Further discussions were held on

January 20, 1982 with the Provincial Chief of Public Works, Provincial Chief of Transmigration and Provincial Director of PTPT on the advantages of shifting the first group of 400 transmigrated families to Subproject Kao on Halma-hera Island. On January 21, 1982, a meeting was held with Mr. Usman Djana, Provincial Chief of Pertanian and status of Subproject Daeo and others was discussed. An additional meeting was held with Mr. A. Monintja, Division Chief of Plant Protection, Manado, North Sulawesi, and the Manado Regional Advisory Team.

From January 11 to 15, 1982, Mr. S.M. Lee, Land Development Engineer, visited the Medan Regional Agricultural Advisors Office. An overall review of the Sederhana land development and on-farm works was made with the newly established Agricultural Area Development Division of DIPERTA, North Sumatra. Assistance was provided to the Regional Agricultural Team with their land development program for the UPP (Land Development Unit) staff of North Sumatra Province.

From January 17 to 20, 1982, Mr. J.Y. Hsu, Water User Association Advisor, visited the Manado Regional Agriculture Advisors Office. With the Regional Team, discussions were held with North Sulawesi Water Resources Division of Public Works pertaining to the work progress on the HPSIS subproject Pentu (231 ha). Also meetings were held with the DIPERTA staff on water management and land development.

From January 21 to 23, 1982, Mr. R.T. Edwards, Agricultural Coordinator, visited the Bandung Regional Agricultural Advisors Office. Overall review of program work and administrative matter was made with the Regional Team. With Mr. W.J. Schoenleber, Regional Team Leader, a special paper was prepared on planetable mapping as requested by the DAAD.

3.2 PROGRAM MONITORING

Subproject monitoring continued during this period with updated progress and data sheets being transmitted to DGWRD, Jakarta.

Monitoring is conducted only for active Subprojects. The number of provinces having active subprojects and the number for which monitoring has been initiated are presented below:

	<u>Number of Provinces</u>		
	<u>With Active Subprojects</u>	<u>Monitoring Implemented</u>	<u>Monitoring Submitted this Month</u>
	<u>DGWRD</u>	<u>DGWRD</u>	<u>DGWRD</u>
1976/77	12	12	5
1977/78	13	13	7
1978/79	16	16	8
1979/80	23	23	15
1980/81	23	23	16
1981/82	23	23	17

Table III-1 presents the status of the December 30 submittals from each Province for each Program Year for the DGWRD.

The DGFC has requested the Consultants to prepare a manual for monitoring MOA activities in the Sederhana II Program and revise and add monthly monitoring forms for existing and new programs. Because of the reduced activity of On-Farm Works by MOA and new programs being implemented, monitoring will not be reported until next month.

3.3 MEETINGS

The Consultants held discussions or attended meetings during the period as follows:

- On January 11, 1982, Mr. B.C. Ferguson, Acting Resident Manager, and Mr. J.A. Erickson, Area Engineer met with Ir. Mamad Ismail, Chief of Sub-Directorate of Construction Management II. Discussions included the Sederhana II reimbursement rates, the lists of subprojects being prepared for consideration by USAID for reimbursement, the work program after July 9, 1982, and the state of health of Mr. Aksamit and Mr. Sabiniano.
- On January 13, 1982, Mr. R.E. Dixon, Area Engineer, met with Mr. W.J. Ackerman, USAID Project Officer, regarding certifications and reimbursement under the Sederhana II loan.
- On January 14, 1982, Mr. B.C. Ferguson, Acting Resident Manager, attended the meeting between Ir. Mamad Ismail, DGWRD, and the staff of SGV and Company, regarding the project management monitoring requirements of the DOI, and specifically the Sederhana Irrigation Project. The Project Monitoring Guidelines were described and provided to SGV and Co. for their review and comments.
- On January 18, 1982, Mr. B.C. Ferguson, Acting Resident Manager, met with Mr. W.J. Ackerman, Project Officer USAID, regarding the lists of subprojects and costs being prepared for reimbursement under the Sederhana II loan, the quarterly report and certifications.
- On January 19, 1982, Mr. J.A. Erickson, Area Engineer, met with Mr. Rubini, Staff Officer, Sub-Directorate of Planning and Ir. Tidja, PISGA Engineering Consultant. Discussions were held concerning the design of a replacement weir at Subproject Tringsing in Central Kalimantan Province. Questions of weir sizing, design flows, geology and weir siting were discussed. Of particular importance is the layer of fine sand that exists from 0.6 to 2.0 meters below the ground surface. A design for piping resistance will be critical at this site.

TABLE II: - 1
STATUS OF DGWRD MONITORING PROGRAM
JANUARY 1982

PROVINCE	PROGRAM YEAR					
	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82
Aceh	-	Complete	Complete	Complete	Complete	Complete
North Sumatra*	Complete	Complete	Complete	Complete	Complete	Complete
West Sumatra*	-	-	-	Complete	Complete	Complete
Riau	-	Complete	Complete	Complete	Complete	Complete
Jambi	NS	NS	NS	NS	NS	NS
South Sumatra*	Complete	Complete	Partial	Partial	Partial	Partial
Bengkulu	Complete	Complete	Complete	Complete	Complete	Complete
Lampung*	Complete	-	Complete	Complete	Complete	Complete
West Java*	-	Complete	-	Complete	Complete	Complete
Central Java	-	-	NS	NS	NS	NS
D.I. Yogyakarta	-	-	-	NS	Complete	Complete
East Java	-	-	-	NS	NS	NS
West Kalimantan	-	-	NS	NS	NS	NS
Central Kalimantan	NS	-	NS	NS	NS	NS
South Kalimantan	Complete	-	Complete	Complete	Complete	Complete
East Kalimantan	NS	NS	NS	Complete	Complete	Complete
North Sulawesi*	NS	NS	NS	Complete	Complete	Complete
Central Sulawesi	-	-	-	NS	NS	NS
South Sulawesi*	-	Complete	Complete	Complete	Complete	Complete
Southeast Sulawesi	NS	NS	NS	Partial	Partial	Complete
Bali	-	-	-	-	-	-
West Nusa Tenggara*	-	-	-	NS	NS	Complete
East Nusa Tenggara	NS	NS	NS	Partial	Complete	Complete
Maluku	NS	NS	-	Complete	Complete	Partial

* designates home province
- designates not required
NS designates not submitted

IV. IRRIGATION ENGINEERING ACTIVITIES

Irrigation engineering activities include the activities of the Irrigation Engineers in Jakarta and the Irrigation Engineers assigned to Provincial Offices in Medan, Padang, Palembang, Telukbetung, Bandung, Manado, Ujung Pandang and Mataram.

4.1 IRRIGATION ENGINEERING ACTIVITIES - JAKARTA OFFICE

The four Irrigation engineers assigned to the Jakarta Office are as follows:

- Area Engineer for Sumatra and Kalimantan (also Provincial Irrigation Engineer for South, Central and West Kalimantan).
- Area Engineer for Java, Sulawesi, Maluku and East and West Nusa Tenggara.
- Irrigation Design Engineer (also Assistant Resident Manager).
- Irrigation Design Engineer (Survey and Mapping).

The Activities of the Area Engineers in support of the Provincial Irrigation Engineers are presented in Section 3.1 - Support Activities.

A. Irrigation Design Activities - Irrigation design activities during the report period consisted of assistance as requested by the DGWRD staff in Jakarta and the Provinces; and the maintenance and distribution of the Survey and Design Guidelines, Survey and Design Specifications, and Technical Papers.

B. Survey and Mapping Activities - During the month of December, Mr. J.D. Sabiniano, Irrigation Design Engineer (Surveys) was confined to quarters upon doctor's orders as a result of his December 16, 1981 heart attack.

4.2 IRRIGATION ENGINEERING ACTIVITIES - PROVINCIAL

Eight Provincial Irrigation Engineers were at their stations during the reporting period. Their activities include design reviews; subproject inspections for construction completion or special problems; certifications of completed work; and program monitoring. Table IV-1, IV-2 and IV-3 present

the Subproject Inspections, Subproject Design Reviews and Subproject Certifications completed for all provinces where these activities occurred. Table III-1 presents the status of the monitoring submittals for this month. Other activities of each Provincial Irrigation Engineer are discussed in the following subsections.

A. Medan Provincial Office (Aceh and North Sumatra) - During the reporting period Mr. C.S.F. Lizardo, Provincial Irrigation Engineer, made field inspection trips and prepared certifications of completed subprojects. He also assisted with subproject selection, design reviews, preparation of as-built schematics, upgrading of construction supervision and inspection, planning for implementation of major works, planning for implementation of tertiary works, development of an O & M program, presentation of design guidelines and working papers, presentation of O & M materials, construction problems and upgrading of the Sederhana staff.

The Provincial Training Program coordinated by Drs. Tampubolon and assisted by the Consultant was continued during the month from January 25 to 31 in the Section Offices of Tanah Karo and Simalungun. This program includes training for subproject selection, survey and mapping, design, construction supervision and monitoring.

On January 9, a pre-bidding conference was held in DPU Sederhana Office regarding the construction of the weir of Subproject Gido Zebua in Nias, North Sumatra. In attendance were representatives of 8 contractors; Mr. C.S.F. Lizardo, Consultant; Ir. K. Siregar, Chief of Water Resources; Ir. J. Banjarahor, Caretaker for Irrigation; Mr. P. Sirait BIE., DPU Counterpart; and involved Sederhana staff. Three care-of-water alternatives were presented. The Contractors were requested to submit proposals by selecting any of the presented alternatives, and indicating their construction strategy, time and cost involvement.

On January 9, 1982, Mr. C.S.F. Lizardo held discussions with Mr. Supardi BIE., DPU Counterpart for Aceh. The tertiary works and major works construction plans for 1982/83 and 1983/84, subproject selection, correction and timely submittal of monitoring works, and the O & M program were discussed.

On January 15, joint meetings were held between DPU and DIPERTA staff regarding the involvement of Water Users Associations in the O & M program.

On January 23, 29 and 30, Mr. Lizardo and Mr. A. Tjahya BIE., DPU Sederhana staff had separate meetings with the Chief of Section Offices of Tanah Karo, Asahan and Labuhan Batu and discussed with them the O & M program and how to implement the plan.

B. Padang Provincial Office (West Sumatra and Riau) - During the reporting period, Mr. R.S.F. Lizardo, the Provincial Irrigation Engineer made field inspection trips and prepared certifications of completed Subprojects. He also assisted in design reviews, planning for implementation of major works, planning for implementation of tertiary works, development of an O & M program and construction problems.

On January 2, 9 and 19, 1982, meetings were held in West Sumatra with DPU staff concerning implementation of the DPU Tertiary Program and planning of major works and tertiary works for the next Pelita.

From January 5 to 8, 1982, Mr. Lizardo visited Pekanbaru, Riau Province. Discussions were held with DPU staff concerning the Tertiary Program implementation, the O & M program activities and the construction progress of major works and tertiary works.

On January 25, 1982, a meeting was held at the DPU Office attended by the Provincial Irrigation Engineer, Head of Survey, DPU staff and Mr. Ruchiyat and staff of BP Tritunggal, Bandung. The status of on-going survey and design work under the consultants 1981/82 contract was discussed. The new specifications, particularly the submittal of monthly progress reports and the requirements for checking the consultants work were reviewed.

From January 26 to 29, 1982, Mr. Lizardo travelled to Pekanbaru, Riau Province, for assistance with special problems areas and for refinement of his work program. The tertiary works certification program was discussed and schedules for Subproject certifications were established.

On January 30, 1982, a meeting was held with Mr. Oedjis BIE., DPU Chief of Section and his staff in Kabupaten Solok, West Sumatra. The importance of a continuing program for subproject selection, the data required for completion of subproject selection questionnaires, and the criteria for certification of Sederhana Subprojects on both major works and tertiary works under the

Sederhana II Program were discussed in detail. Mr. Lizardo also stressed the importance of coordinating O & M activities with other concerned local government offices.

C. Palembang Provincial Office (South Sumatra and Jambi) - During the reporting period Mr. M.J. Crawford, the Provincial Irrigation Engineer, supervised the preparation of subproject monitoring reports and provided technical assistance on subprojects where unusual problems exist.

Project monitoring has progressed slowly and assembling of data which should not take more than a week has required four weeks but still not complete. Part, but not all, of the delay has been due to correcting numerous errors discovered in figures previously reported.

Approval has now been obtained to furnish and install two continuous water stage recorders on Subproject Sekojo Ujung. Plans are to make the installation before mid-February. The resulting data will be vital to the study of tidal effects on this subproject. Such information is needed to help in making what is hoped will be a workable solution to a functional problem.

D. Telukbetung Provincial Office (Lampung and Bengkulu) - During the reporting period, Mr. D.W. Holloway, the Provincial Irrigation Engineer made field inspection trips, and prepared certifications of completed subprojects. He also participated in an annual O & M inspection, coordinated DPU and DIPERTA programs, assisted with planning for implementation of tertiary works, and made a design review.

On January 4, a joint O & M inspection of Way Apus, South Lampung was carried out by DPU and Pertanian teams supported by Mr. D.W. Holloway and Messrs. Maza and Abdurrachim of the Lampung Agricultural Team. This proved to be a functional project with regard to the tertiary works. The intake at the right of the diversion weir does not have a control gate. Flooding of the rice fields is presently uncontrolled and the situation requires corrective measures.

On January 16, a meeting was held with Mr. Rubini Yusuf, Chief of Irrigation, Lampung Province, other DPU staff, and the Regional Agricultural Team. Delays

in the tendering of some 1981/82 major works, late submittals of the monthly monitoring, and scheduling of future DPU tertiary programs to meet the needs of DIPERTA water management programs were the major topics for discussion.

Mr. D.W. Holloway visited Bengkulu DPU from January 26 to 29. During this period site visits were made for certification of major and tertiary works.

E. Bandung Provincial Office (West Java, Central Java, D.I. Yogyakarta and East Java) - The principle activities of this office for the reporting period included making field inspection trips to subprojects for design review and completion, certification, assisting with subproject selection, design reviews, upgrading of construction supervision and inspection, coordinating programs with the agricultural department and assisting with various other engineering activities.

From January 13 to 16, 1982, Mr. M.C. Christensen, Provincial Irrigation Engineer accompanied Mr. Gunawan, USAID Engineer to inspect selected subprojects in West Java for reimbursement under the Sederhana II program.

F. Manado Provincial Office (North Sulawesi, Central Sulawesi and Maluku) - During the period, Mr. F.B. Regonas, Provincial Irrigation Engineer, concentrated his efforts in subproject inspection, design review, updating of monitoring program and updating reports on tertiary works present and future programs.

From January 11 to 18, 1982, Ir. Joes Oemarhamzah, USAID Engineer was in North Sulawesi to inspect Sederhana Subprojects. He was accompanied in the inspection by the North Sulawesi Agricultural Team, DPU and Agriculture staff, and the Provincial Irrigation Engineer.

From January 19 to 22, 1982, Mr. R.E. Dixon, Area Engineer, Ir. Wahyu A., Irrigation Engineer and Mr. F.B. Regonas, visited the Public Works Office in Ternate, North Maluku. Discussions were held with Ir. B. Mardijanto, Chief of Public Works, on subprojects progress of implementation, tertiary works program and monitoring program. On January 20, 1982, a joint discussion was held with the representatives from Transmigration Office and PTPT, regarding the planning of land clearing and settlement of transmigrants at Subproject Kao. On January 21, 1982, Mr. Dixon, Ir. Wahyu, and Mr. Regonas met with Mr. Usman Djana, Section Chief of Agriculture Service, Ternate regarding the tertiary

and land development programs for Subproject Daeo. Discussions were held on January 23, 1982 with Mr. A. Monintja, Chief of Plant Protection Division, Manado, and the Manado Regional Advisory Team.

G. Ujung Pandang Provincial Office (South Sulawesi, Southeast Sulawesi and East Kalimantan) - During the period, Mr. C.F. Sayer, Provincial Irrigation Engineer, concentrated his efforts on coordinating programs with the Provincial Agricultural Team, discussions of progress of major works and tertiary works with the Provincial Public Works Staff, and review of subprojects to be certified by July, 1982.

Discussions were held in December 1981, with Ir. A. Yantahin, Chief of Water Resources in South Sulawesi on ways of improving contractor construction quality and progress in the Province. The progress of subprojects still not completed for program years prior to 1981/82 were also discussed fully.

Further discussions were held in December 1981, with the Provincial Agricultural Team on implementation of the tertiary works program in South and Southeast Sulawesi.

H. Mataram Provincial Office (Bali, East Nusa Tenggara and West Nusa Tenggara) - During this period, Mr. L.P. Lim, Provincial Irrigation Engineer concentrated efforts on the review and revisions of design plans and cost estimates of subprojects due for tendering under the 1982/83 program year.

Mr. Lim also accompanied local Survey and Design Consultants on map checking and weir sites investigations of proposed subprojects under the 1982/83 survey and design program.

Other activities performed by Mr. Lim were on redesign work of Subproject Rade (1982/83 program) and Subproject Mada Pangga flume improvement work (1982/83 program).

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
North Sumatra	Berastepu	4-N	79/80	887	131	1/23	Special Purpose	Updating of irrigation schematic.
		6-C	80/81		756	1/23	Special Purpose	Updating of irrigation schematic.
		7-C	81/82		0	1/23	Special Purpose	Completion inspection. Works are complete and functioning.
	Sijambi/Sukadama	NA	82/83	763	0	1/23	Design Review	Replace drop structures with chute.
		NA	75/76		265	1/29	Special Purpose	Updating of irrigation schematic of major works and tertiary works.
		2-I	78/79		336	1/29	Special Purpose	Updating of irrigation schematic of major works and tertiary works.
		1-I	79/80		162	1/29	Special Purpose	Updating of irrigation schematic of major works and tertiary works.
	Padang Mahondang	1-N	80/81	1281	715	1/30	Certification	Certifiable.
		1-C	81/82		439	1/30	Special Purpose	Completion inspection. Works are complete and functioning.
	Si Kopi-Kopi	2-N	81/82	336	215	1/2	Construction	Construction delayed due to transfer of weir location from dry ground to river area.
West Sumatra	Guguk Rantau	1-N	80/81	416	271	1/30	Certification	Certifiable.
		NA	82/83		0	1/30	Design Review	Improvement to major works.
Bengkulu	Air Susup II	3	76/77	58	18	1/26	Certification	Certifiable. DPU Tertiary Works.
	Air Ketenong	4-N	80/81	187	187	1/27	Certification	Certifiable.

^{1/} Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
Bengkulu (Cont'd)	Air Ketenong (Cont'd)	1-I	81/82	0	0	1/27	Special Purpose	Completion, complete and functioning.
	Air Kotok Kota Agung	1	76/77	80	50	1/27	Certification	Certifiable. DIPERTA Tertiary Works.
	Air Ngalam	18	76/77	108	108	1/28	Certification	Certifiable. DPU Tertiary Works.
Lampung	Way Apus	5-I	81/82	0	0	1/28	Special Purpose	Completion. Major works improvement complete and functioning.
		C	76/77	86	86	1/4	Special Purpose	Joint O & M Inspection. Major works improvement needed.
West Java	Cidadap	7-N	80/81	861	34	1/13	Special Purpose	NA
	Gunung Leutik	3-C	81/82				Construction	
		15-N	79/80	50	50	1/14	Special Purpose	NA
	Leuwi Peujit	14-N	79/80	169	NA	1/14	NA	NA
	Cinangka I & II	7-1	81/82					
		21-N	79/80	170	170	1/15	Special Purpose	NA
	Surakatiga	22-N	79/80	402	402	1/15	Special Purpose	NA
	Cisolok	4-1	79/80		0			
6-1		80/81		0				
NA		82/83	NA	NA	1/25	Subproject Selection	NA	

^{1/} Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS	
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}		
North Sulawesi	Cipamarangan	5-N	80/81	615	NA	1/26	Certification	Not certifiable. Construction not complete.	
	Cikurutug	12-N	79/80	712	NA	1/27	Certification	Certifiable. Needs maintenance.	
		8-I	79/80				Certification		Certifiable.
		6-I	81/82				Special Purpose		
	Ranotuana	5-N	79/80	188	188	1/11	Certification	Certifiable; Tertiary Works.	
		5-N	79/80	188	188	1/12	Special Purpose		USAID visit on certified major works.
	Motondong	7-N	79/80	135	135	1/12	Special Purpose	USAID visit on certified major works.	
	Molong	T	80/81	286	217	1/13	Special Purpose	USAID visit on certified tertiary works.	
	Tungoi	2-N	80/81	516	324	1/13	Special Purpose	USAID visit on certified major works.	
	Mayondok Hulu	9-N	79/80	84	84	1/14	Special Purpose	USAID visit on certified major works.	
Karowa	7	77/78	216	216	1/14	Special Purpose	USAID visit on certified tertiary works.		
Lindangan	8	77/78	158	158	1/14	Special Purpose	USAID visit on certified tertiary works.		
South Sulawesi	Bulumarapa	1-1	81/82	507	0	12/1	Construction	Progress Slow.	
	Waedalle	3-1	81/82	50	0	12/2	Construction	Behind Schedule.	
	Nonongan	4-1	81/82	241	0	12/2	Construction	Progress Slow.	

^{1/} Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
West Nusa Tenggara	Bakke	5-1	81/82	288	0	12/3	Construction	Progress Slow.
	Paroto	6-1	81/82	270	0	12/3	Construction	
	Salodua	15-1	81/82	524	0	12/3	Construction	Progress Slow.
	Kalu	3-N	81/82	216	216	12/4	Construction	
	Batu Swan	NA	83/84	400	NA	1/12	Survey Checking	New weir site location verification.
	Aik Putik	NA	83/84	550	NA	1/12	Special Purpose	Accompanied Survey Design Consultant to recommended location of weir site design revision suggested.
	Maronge	NA	83/84	1000	NA	1/13	Special Purpose	Same as above.
	Pemasar	NA	NA	NA	NA	1/13	Project Selection	Feasible, one crop.
	Lepas (Bila)	NA	NA	300	NA	1/13	Project Selection	Feasible, one crop.
	Patula	1-C	80/81	342	NA	1/14	Certification	Certifiable. Right side of gabion weir settled by 30 cm. Will need masonry capping.
	Mada Pangga	3-I	81/82	342	NA	1/14	Certification	Not Certifiable.
		1-N	80/81	454	NA	1/15	Certification	Not Certifiable.
Lido Belu	2-I	81/82				Construction	95 % completed	
	NA	83/84	450	NA	1/15	Special Purpose	Survey Checking. Relocate weir site upstream of old weir.	

^{1/} Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
	Rade	NA	82/83	224	NA	1/15	Special Purpose	Observed flood flow at proposed weir site.
	Sindang Gila	1-C	81/82	855	259	1/20	Certification	Certifiable.
	Lengguar	NA	82/83	293	NA	1/23	Special Purpose	Propose flume deletion and new canal line profile survey.
	Lolohan	NA	82/83	718	NA	1/28	Special Purpose	Pre-tendering inspection.

^{1/} Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

TABLE IV - 2
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT DESIGN REVIEWS
JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		REVIEW STATUS ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG.		
North Sumatra	Berastepu	NA	82/83	887	0	In progress	Replace drop structures with chute.
West Sumatra	Batang Dareh	NA	82/83	183	0	In progress	
	Bulakkan	NA	82/83	391	0	In progress	
Lampung	Way Tipo Balak	NA	82/83	1054	0	Complete	Likely water shortage for proposed sub-project area.
North Sulawesi	Talawaan Atas	NA	82/83	607	604	Completed	Tertiary Works; satisfactory.

^{1/} Report Received, In Progress or Completed.

TABLE IV - 3
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT CERTIFICATIONS
JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		TYPE OF CERTIFICATION ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
North Sumatra	Semangat Baris I	1-N	79/80	315	217	TSC and CCC	Tertiary works.
	Siharanjang	1-N	79/80	128	128	TSC and CCC	Tertiary works.
West Sumatra	Guguk Rantau	1-N	80/81	416	271	TSC and CCC	
West Nusa Tenggara	Sindang Gila	1-C	81/82	855	259	TSC and CCC	Minor damage to drainage structures, but does not affect operation.

^{1/} Report TSC for Technical Soundness Certification and CCC for Completion of Construction Certification.

V. AGRICULTURAL ACTIVITIES

Agricultural activities include those of the Agricultural Coordinator and his staff in Pasar Minggu (Jakarta) and the activities of the seven Regional Agricultural Advisory Teams covering 24 Provinces.

5.1 AGRICULTURAL ACTIVITIES - PASAR MINGGU

The Central Agricultural Advisory Team members and their work assignment are as follows:

- The Agricultural Coordinator coordinates all agricultural services provided and is the advisor to the DGFC Project Manager.
- The Land Development Engineer assists the Coordinator and also is responsible to assist the DGFC in the field of on-farm land development and is responsible for assisting DIPERTA in all of the provinces of Kalimantan.
- The Water Users Association Advisor assists the DGFC in upgrading on farm water management and the effective organization/operation of WUA.
- The Agricultural Engineer (National Consultant) assists the Central Advisory team for Agriculture.

The activities of the Central Agricultural Advisory Team in support of the 7 Regional Agricultural Advisory Teams are presented in Section 3.1 - Support Activities.

On January 12, 1982, Mr. S.M. Lee, Land Development Engineers, met with Mr. C.S.F. Lizardo, Provincial Irrigation Engineer, and Mr. C.W. Shih, Regional Agricultural Team Leader, both from the Medan Consultants Offices, to assist with the coordination of the Tertiary and O & M programs.

On January 13, 1982, Messrs. S.M. Lee and C.W. Shih reviewed the Sederhana program with Ir. H. Abdurrachim, Chief, DIPERTA, North Sumatra. Also on this date, Mr. Lee held discussions with the land development contractor and UPP chief on survey and design techniques.

On January 19, 1982, Mr. J.Y. Hsu, WUA Advisor, discussed solutions for problems of organizing farmer groups (Pre-WUA), land certification and credit for paddy field forming with the North Sulawesi Provincial Land Development Steering Committee.

On January 20, 1982, Mr. Hsu attended a meeting of the UPP (Land Development) Chiefs of North Sulawesi Province and presented a special lecture on "How to Develop and Implement the WUA, Cropping Pattern and Water Management".

During this reporting period, Mr. R.T. Edwards, Agricultural Coordinator, assisted the DAAD staff with preparing the selection criteria for the 7 new HPSIS subprojects and identifying potential subproject candidates for this program. Also, the draft of "Procedures for Certifying Land Development Survey & Design" was forwarded to the DAAD and USAID for approval.

5.2 AGRICULTURAL ACTIVITIES - REGIONAL OFFICES

The MOA Training Courses, Subproject Inspections and Subproject Design Reviews completed during the reporting period by Regional Agricultural Advisory Teams are presented in Tables V-1, V-2 and V-3. No Subproject Certifications were completed during the report period.

The main activities of the Regional Agricultural Advisory Teams during the period were to assist the respective Provincial Agricultural Services (DIPERTA) with the following programs:

- Upgrading the Water User Association and Water Management Practices.
- Preparing Water Management Plans for Selected Subprojects.
- Annual O & M Inspection.
- The Land Development Program.
- MOA Training Program.
- Implementation of the High Performance Sederhana Irrigation System Program.
- The Action Research Program.

A. Medan Regional Office (Aceh, North & West Sumatra and Riau)

The Regional Agricultural Advisory Teams met with the Provincial Irrigation Engineer on January 5, 6, 7 and 9, 1982, for coordinating activities, data collection for water management plans and updating the Land Development Inventory.

On January 11 to 15, 1982, Mr. S.M. Lee, Land Development Engineer visited the Medan Regional Office for checking the Land Development Program progress. Mr. Lee assisted with the review of land development survey and design. From January 13 and 14, 1982, the Regional Team with Mr. Lee, Ir. Rajo, UPP Chief made a field trip to Subproject Namu Embilin (200 ha) for inspecting the land development construction work.

On January 20, 1983, Mr. C.S.F. Lizardo, Provincial Irrigation Engineer visited the Regional Office for discussing the implementation of the O & M plan for the Sederhana Project.

From January 18 to 20, 1982, the Medan Regional Team completed the Water Management Plan for Subproject Kuala Janji (1347 ha).

From January 27 to 29, 1982, Mr. C.C. Tai, President of Sinotech, Taipei, Taiwan, and Mr. Y.K. Yang, General Manager, Sinotech Branch Office, Jakarta, visited the Medan Regional Office for inspecting and evaluating the status of the Sederhana Program.

B. Palembang Regional Office (Jambi, South Sumatra and Bengkulu)

On January 13, 1982, the Regional Agricultural Advisory Team attended the conference for all UPP Chiefs in South Sumatra. The purpose of the conference was to evaluate the UPP program and to formulate a program for the fiscal year 1982/83. Team Leader R.P. Miras and Agricultural Engineer A.H. Lo gave suggestions and recommendations/on how to improve the program.

From January 17 to 26, 1982, the Regional Agricultural Advisory Team made an inspection trip to Subprojects Pilla Ranau (63 ha); Air Sunur (995 ha); Air Salak (131 ha) and other subprojects in South Sumatra Province. The main objective of the trip as to explain to the Chief of Baturaja District and to

the Extension Workers (PPM and PPL) concerned, the proposed Water Management Plan to be implemented in Subprojects Pilla Ranau and Air Sunur. Also, to check the lysimeters in the UPP Subprojects Belitang and Muara Enim; both non-Sederhana. The HPSIS Subproject Air Salak was inspected.

On January 30, 1982, the Regional Team held its regular monthly meeting with DIPERTA personnel who are in-charge of Water Management and Water User Association.

C. Telukbetung Regional Office (Lampung)

On January 4, 1982, a joint O & M inspection was made of the Subproject Way Apus (86 ha). The inspection party included staff from Provincial Public Works and DIPERTA, WUA officials and the Consultants. Major repair of gates is needed for better control of irrigation water and prevention of flooding during heavy rains.

On January 9, 12 and 13, 1982, the Regional Team visited the Subprojects Way Semuli (111 ha), Way Neki (299 ha) and Way Campang Limau (606 ha) for upgrading the WUA.

On January 21, 1982, the Regional Team attended a Land Development meeting. Participants included Ir. Otje S.R.B., Chief, Sub-Directorate Land Development, Jakarta, Ir. Djoko, Provincial Land Development, UPP Chiefs and staff from Public Works, Agraria, Estate Crops, Manpower and Planning at the Provincial level.

On January 19 and 27, 1982, the Regional Team inspected the land development and irrigation work at two locations. Advice was given on improving work and supervision by the UPP staff.

From January 28 to 30, 1982, the Regional Team visited several WUA's in North Lampung District for preparing situation maps, installing raingauges and method of checking irrigation water losses from the paddy and canals. Also during this period an evaluation of the Action Research Program, Phase II was made.

D Bandung Regional Office (West, Central and East Java and D.I. Yogyakarta)

On January 5, 6 and 7, 1982, the Regional Team continued the planetable mapping and data collection on the HPSIS Subproject Cumanggala (341 ha).

From January 12 to 14, 1982, the Regional Team inspected the on-farm works construction of the Subprojects Cimarayana (269 ha) and Ciderum (150 ha).

From January 18 to 20, 1982, Ir. Basril F., Agriculturist, and Ir. Sulaeman N., Counterpart, accompanied USAID Engineers for their inspection of 4 sub-projects in West Java Province.

From January 28 to 30, 1982, Mr. W.J. Schoenleber, Team Leader assisted the Central Staff in reviewing and revising the O & M Annual Inspection Reports and Procedures to make it uniform for all provinces.

During the reporting period, the Regional Team prepared Water Management Plans for the Subprojects Cumanggala (341 ha) Cukang Sadang (237 ha) and Cikalong (472 ha).

E. Manado Regional Office (North Sulawesi)

From January 12 to 17, 1982, the Regional Team and Mr. F.B. Regonas, Provincial Irrigation Engineer, assisted staff of DIPERTA and Provincial Public Works with the inspection of 9 subprojects by Ir. Joes O., USAID Engineer.

On January 12, 1982, the Regional Team visited the Subproject Kaluntai (107 ha) for upgrading the WUA. Information was presented on how to maintain and operate the irrigation facilities during the rainy season and how to set-up a new wasteway to protect the overloading of the canals.

On January 14, 1982, the Regional Team visited the WUA at Subproject Lindangan (158 ha) for evaluating the Action Research Program Phase II. Three field workers from the Faculty of Economics, Sam Ratulangi University, were on site. The University completed their first phase final report during December 1981.

During this reporting period, 3 land development meetings were held. Ir. D.A. Sihombing, Chief, DIPERTA, North Sulawesi Province, gave special attention to improving the land development program. Because of conflicting data for areas to be developed, two teams were formed to investigate and find the correct data. The Regional Team was requested to be a member of these teams.

F. Ujung Pandang Regional Office (Central, South and Southeast Sulawesi)

On January 12, 1982, the Regional Team met with the Chief of Agricultural Area Development, South Sulawesi Province, for outlining a program for accelerating WUA development.

On January 18, 1982, the Regional Team met with Mr. C.F. Sayer, Provincial Irrigation Engineer, to discuss the responsibility and coordination for the certification of the Tertiary Work and the WUA.

On January 27, 1982, the Regional Team met with Ir. J. Sonneveld, Consultant for Provincial Public Works Design Unit, concerning the completion of the Major Works and tendering for the Tertiary Works at the HPSIS Subproject Leang-Leang (640 ha).

G. Mataram Regional Office (Bali, West and East Nusa Tenggara)

From January 3 to 5, 1982, Mr. M. Dardjoko, Agricultural Engineer, attended an annual working meeting held by DIPERTA at Sumbawa, West Nusa Tenggara Province. Suggestions and recommendations were given on the Land Development Program.

On January 4, 1982, the Regional Advisory Team visited the office of the Provincial Engineer in Mataram for preparing the Quarterly Report and the data for the Tertiary Inventory.

From January 5 to 10, 1982, the Regional Advisory Team made a field trip to Bali and East Nusa Tenggara Provinces for the purpose of giving assistance on Land Development Program. Mr. H.Y. Huang, Team Leader, prepared the Land Development Survey & Design lecture schedule which included field practice and demonstration of surveying. The lecture was presented to 12 people from

the staff of DIPERTA and the staffs of the local design contractor. A two hour special lecture was given to the staff of the Land Development Division.

On January 14 and 23, 1982, the Regional Team visited subproject Benjor (227 ha) for the purpose of assisting MOA agencies concerned with reformatting the WUA of Benjor. This was needed because the committee, or the executive body, was not active since it was selected for upgrading the WUA and the farmers were complaining. Advice and recommendations were given for immediate action by the responsible officials concerned. Also, the intake, secondary canal, tertiary system and jurisdictional area were inspected for preparing the Water Management Plan.

TABLE V - 1
 AGRICULTURAL ACTIVITIES
 MINISTRY OF AGRICULTURE TRAINING COURSES
 JANUARY, 1982

COURSE TITLE	COURSE DATE	COURSE LOCATION (District and Province)	PARTICIPANTS		COMMENTS
			NO.	CLASSIFICATION	
Land Development Program	January 3, 1982	Gowa, South Sulawesi	30	UPP Chiefs and Staff.	Lectures by DIPERTA, Consultants Counterpart and Agriculturist
Land Development Survey and Design	January 7-9, 1982	Kupang, East Nusa Tenggara.	11	UPP Staff Contractors Staff.	Lectures by H.Y. Huang

TABLE V - 2
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT INSPECTIONS
 JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
North Sumatra	Namu Embilin	5	76/77	200	-	1/14	Construction	Land Development, rice field cleaning, leveling and forming.
South Sumatra	Pilla Ranau	9	76/77	63	63	1/19	Special Purpose	Water Management Plan.
	Air Sunur	6	77/78	972	995	1/20	Special Purpose	Water Management Plan.
	Air Salak	2	75/76	130	131	1/23	Special Purpose	HPSIS Program.
Lampung	Way Gading	9	78/79	272	272	1/4	Special Purpose	Seedbed promotion.
	Way Apus	6	76/77	86	86	1/4	Special Purpose	Joint Annual Inspection with DPU
	Way Neki Sumber Baru *	-	-	299	70	1/12	Special Purpose	WUA should be upgraded
	Way Semuli	1	77/78	111	111	1/9	Special Purpose	WUA Upgrading
	Way Pura Jaya I & II	-	-	236	236	1/13	Special Purpose	WUA.
	Way Jagang	3	76/77	205	123	1/19	Special Purpose	Land Development Activities.
	Way Mincang *	-	-	438	436	1/26	Special Purpose	WUA.

^{1/} Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

* Not a Sederhana Subproject

^{2/} Report On-Farm Works, Water User Association, or Action Research Program.

TABLE V - 2
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT INSPECTIONS
 JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
Lampung (Cont'd)	Way Sabuk Sidandang *	-	-	436	486	1/28	Special Purpose	WUA.
	Way Getah Sri Me *	-	-	733	733	1/28	Special Purpose	WUA.
West Java	Cumanggala	8	76/77	341	261	1/5,6,7	Special Purpose	HPSIS data collection
	Cimarayana	5	77/78	269	316	1/12,13	Construction	On-farm works
	Ciderum	6	76/77	150	141	1/14	Construction	On-farm works
	Cipicung	12	76/77	150	106	1/18	Special Purpose	On-farm works inspection by USAID
	Cigunung II	8	78/79	450	356	1/19	Special Purpose	On-farm works inspection by USAID
	Cumanggala	8	76/77	341	261	1/20	Special Purpose	On-farm works inspection by USAID
	Cilengis	6	77/78	296	175	1/20	Special Purpose	On-farm works inspection by USAID
North Sulawesi	Ranotuana	5	79/80	188	188	1/12	Special Purpose	USAID Inspection
	Motondong	7	79/80	135	NA	1/12	Special Purpose	USAID Inspection
	Kaluntai	10	77/78	303	70	1/12	Special Purpose	WUA Upgrading

^{1/} Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

^{2/} Report On-Farm Works, Water User Association, or Action Research Program.

* Not a Sederhana Subproject

TABLE V - 2
AGRICULTURAL ACTIVITIES
SUB-PROJECT INSPECTIONS
JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
North Sulawesi (Cont'd)	Molong	6	76/77	218	170	1/13	Special Purpose	USAID Inspection
	Tungoi	2	80/81	516	450	1/13	Special Purpose	USAID Inspection
	Moyondok Hulu	9	79/80	84	55	1/14	Special Purpose	USAID Inspection
	Karowa	7	77/78	216	182	1/14	Special Purpose	USAID Inspection
	Lindangan	8	77/78	158	177	1/14	Special Purpose	Action Research Program
	Poso	2	76/77	268	240	1/16	Special Purpose	Action Research Program
	Alo	1	76/77	1642	1442	1/16	Special Purpose	USAID Inspection
South Sulawesi	Kocikang *	-	-	245	NA	1/6	Special Purpose	Check measuring devices for optimization of water use, water requirement and water losses.
	Sulewatang	4	76/77	310	272	1/78	Special Purpose	Check measuring devices for optimization of water use, water requirement and water losses.
	Leang-Leang	6	77/78	640	-	1/12	Special Purpose	Check measuring devices for optimization of water use, water requirement and water losses.

^{1/} Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.
^{2/} Report On-Farm Works, Water User Association, or Action Research Program.

* Not a Sederhana Subproject.

TABLE V - 2
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT INSPECTIONS
 JANUARY, 1982

PROVINCE	SUBPROJECT			APEA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
South Sulawesi (Cont'd)	Babana	14	76/77	413	448	1/21	Special Purpose	Water Management Plan.
	Panaikang	11	76/77	369	244	1/22	Special Purpose	Water Management Plan.
West Nusa Tenggara	Benjor	4	77/78	227	106	1/23	Special Purpose	Additional data for Water Management Plans
	Mamak * -	-	-	910	NA	1/4	Construction	Land Development, Paddy field forming

^{1/} Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

^{2/} Report On-Farm Works, Water User Association, or Action Research Program.

* Not a Sederhana Subproject

TABLE V - 3
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT DESIGN REVIEWS
 JANUARY, 1982

PROVINCE	SUBPROJECT			AREA (HA)		REVIEW STATUS ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG.		
North Sumatra	Aek Pandurungan	3	76/77	1675	-	Completed	Land Development for 1,025 Ha. Survey and Design was 98% completed.
	Sioma-ome *	-	-	650	-	Report received	Land Development lacks earth volume calculations and survey and design does not meet requirements.
	Aek Lung *	-	-	400	-	Report received	Land Development lacks earth volume calculations and survey and design does not meet requirements.

^{1/} Report Received, In Progress or Completed.

* Not Sederhana

CONSULTANTS PERSONNEL IN INDONESIA

<u>Name</u>	<u>Classification</u>	<u>Location</u>	<u>Arrival Date</u>	<u>Departure Date</u>
<u>EXPATRIATE PERSONNEL - IECO</u>				
<u>Long-Term Personnel</u>				
C.E. Aksamit	Resident Manager	Jakarta	10 Jul 80	
M.A.E. Adams	Area Engineer	Jakarta	10 Jul 80	27 Mar 81
R.E. Dixon	Area Engineer	Jakarta	10 Jul 80	
J.H. Cloward	Irrig. Design Engr.	Bandung	10 Jul 80	16 Jun 81
D.W. Holloway	Prov. Irrig. Engr.	Telukbetung	10 Jul 80	
J.D. Sabiniano	Irrig. Design Engr.	Jakarta	10 Jul 80	
R.T. Edwards	Agri. Coordinator	Jakarta	14 Jul 80	
B.C. Ferguson	Asst. Res. Mgr.	Jakarta	20 Jul 80	
M.C. Christensen	Prov. Irrig. Engr.	Bandung	21 Jul 80	
O.L. Bulseco	Prov. Irrig. Engr.	Banjarmasin	31 Jul 80	10 Aug 81
P.M. Clutario	Prov. Irrig. Engr.	Palembang	31 Jul 80	14 Aug 81
L.P. Lim	Prov. Irrig. Engr.	Mataram	31 Jul 80	
C.S.F. Lizardo	Prov. Irrig. Engr.	Medan	31 Jul 80	
R.S.F. Lizardo	Prov. Irrig. Engr.	Padang	31 Jul 80	
F.B. Regonas	Prov. Irrig. Engr.	Manado	31 Jul 80	
S.D. Scully	Agriculturist	U. Pandang	6 Aug 80	
W.J. Schoenleber	Agricultural Engr.	Bandung	8 Aug 80	
M.M. Hammond	Agriculturist	Palembang	27 Aug 80	3 Jul 81
C.F. Sayer	Prov. Irrig. Engr.	U. Pandang	7 Sep 80	
R.B. Maza	Agricultural Engr.	Telukbetung	16 Sep 80	
J.A. Erickson	Area Engineer	Jakarta	11 Jun 81	
R.P. Miras	Agriculturist	Palembang	25 Sep 81	
M.J. Crawford	Prov. Irrig. Engr.	Palembang	4 Oct 81	
<u>Short-Term Personnel</u>				
H.R. Causing	Project Director	Jakarta	20 Oct 80 1 Apr 81 6 Oct 81	25 Oct 80 7 Apr 81 9 Oct 81
T.K. Bateman	Chief, Irrigation and Land Reclamation	Jakarta	31 Mar 81	9 Apr 81
W.B. Walters	Office Management and Documentation Specialist	Jakarta	8 May 81	6 Aug 81

<u>Name</u>	<u>Classification</u>	<u>Location</u>	<u>Arrival Date</u>	<u>Departure Date</u>
<u>EXPATRIATE PERSONNEL - SINOTECH</u>				
<u>Long-Term Personnel</u>				
J.Y. Hsu	Water User Assn. Advisor	Jakarta	10 Jul 80	
A.H. Lo	Agricultural Engr.	Palembang	10 Jul 80	
H.Y. Huang	Agricultural Engr.	Mataram	30 Jul 80	
C.W. Shih	Agricultural Engr.	Medan	30 Jul 80	
C.C. Tai	Agricultural Engr.	Ujung Pandang	30 Jul 80	
S.M. Lee	Land Development Engr.	Jakarta	11 Aug 80	
K.F. Jeng	Agricultural Engr.	Manado	14 Nov 80	
<u>Short-Term Personnel</u>				
T.H. Lee	Water Manag. Specialist	Jakarta	16 Jun 81	31 Dec 81
<u>INDONESIAN PERSONNEL - SANGKURIANG</u>				
<u>Technical Personnel</u>				
Ir. A. Afif	Irrig. Design Engr.	Jakarta	10 Jul 80	
Ir. H. Gunawan	Irrig. Engineer	Jakarta	10 Jul 80	
Ir. A.B. Lambe	Irrig. Engineer	Jakarta	10 Jul 80	31 Dec 80
Ir.D.Pratanata	Irrig. Design Engr.	Bandung	10 Jul 80	9 Jul 81
Ir.A.Hananto	Irrig. Design Engr.	Bandung	10 Jul 80	27 Jun 81
Ir.Prijanto S.	Agriculturist	Ujung Pandang	10 Jul 80	
Ir. Basril F.	Agriculturist	Bandung	19 Aug 80	
Ir. Abdurrachim	Agriculturist	Telukbetung	19 Aug 80	
Ir. Sumarna	Agriculturist	Medan	25 Aug 80	
Ir. Hilmar H.	Agriculturist	Palembang	29 Oct 80	
Mr. Wahyu A.	Irrig. Engineer	Jakarta	5 Jan 81	
Ir. Irdam Adil	Irrig. Design Engr.	Jakarta	3 Aug 81	

<u>Name</u>	<u>Classification</u>	<u>Location</u>	<u>Arrival Date</u>	<u>Departure Date</u>
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INDONESIAN PERSONNEL - SANGKURIANG (cont'd)

Logistic Support Personnel

Abubakar S.	Administ. Officer	Jakarta	10 Jul 80	24 Jan 81
R.M. Bachrawi	Head Accountant	Jakarta	10 Jul 80	
Glempo S.	Office Mngr./Expdt.	Jakarta	10 Jul 80	
Benyamin W.	Accountant	Jakarta	10 Jul 80	5 Sep 81
Sinta R.A.	Secretary/Typist	Jakarta	10 Jul 80	16 May 81
N. Hermawati	Secretary/Typist	Jakarta	10 Jul 80	
Tiene M.	Clerk/Typist	Jakarta	10 Jul 80	2 Mar 81
Afrianingsih	Secretary/Typist	Jakarta	10 Jul 80	
Marguita S.	Clerk/Typist	Bandung	10 Jul 80	18 Oct 80
Hartati Oemar	Clerk/Typist	Jakarta	31 Jul 80	
Dewi M.	Secretary/Typist	Jakarta	8 Oct 80	14 Jan 82
Yasmin M.	Clerk/Typist	Bandung	15 Oct 80	16 Jul 81
Saukani S.	Administ. Officer	Jakarta	23 Mar 81	
Anizar M.	Secretary/Typist	Jakarta	1 Jun 81	
Sondang T.	Clerk/Typist	Jakarta	15 Jun 81	15 Sep 81
Ernima D.	Clerk/Typist	Jakarta	12 Oct 81	
Agus Salim L.	Accountant	Jakarta	1 Oct 81	
Herlina P. Dewi	Clerk/Typist	Jakarta	25 Jan 82	

INDONESIAN PERSONNEL - INDRA DEVELOPMENT

Ir. I. Mustari	Agricultural Engr.	Jakarta	27 Oct 80	
Ir. T. Soegianto	Agricultural Engr.	Surabaya	1 Nov 80	3 Aug 81
Ir. Siwi H.F.	Agricultural Engr.	Manado	21 Nov 80	
Ir. M. Noer	Agricultural Engr.	Palembang	5 Nov 80	
Ir. Sidharta	Agricultural Engr.	Uj. Pandang	1 Nov 80	
Mr. M. Dardjoko	Agricultural Engr.	Mataram	10 Aug 81	

COUNTERPART PERSONNELDGWRD PERSONNEL

Ir. Mamad Ismail - Chief of Sub Dir. of Construction Management II
 Sutomo BIE - Chief of Section IV (Sumatra)
 Drs. M.N. Mansyur - Chief of Section V (Java & Kalimantan)
 Syaefullah D. BIE - Chief of Section VI (Sulawesi & Eastern Islands)
 Drs. Slameto H. - Chief of Section VII - ABLN Unit for Sederhana Project

PROVINCIAL PUBLIC WORKS - SEDERHANA ENGINEERS

Supardi BIE	- Banda Aceh	Syahroni BIE	- Pontianak
P. Sirait BIE	- Medan	Ir. Berti	- Palangkaraya
Syaifullah Anwar BIE	- Padang	Ir. Fansuri S.	- Banjarmasin
Jumadi BIE	- Pekanbaru	Moelyono BIE	- Samarinda
Dadang Sutarja BIE	- Jambi	R. Suatmadja BIE	- Manado
Ngarim BSE	- Palembang	B. Darwono BIE	- Palu
Sutrasno BIE	- Telukbetung	Ir. Yantahin	- U. Pandang
Ir. Sutardi	- Bengkulu	S. Nuryadi BIE	- Kendari
Ir. Adnan S.	- Bandung	Agus BIE	- Mataram
Ir. Subekti K.	- Semarang	Drs. D. Hariandja	- Kupang
Sutandiyono BIE	- Yogyakarta	Ir. Mardiyanto	- Ternate
Ir. Mayangkoro	- Surabaya		

DGFC PERSONNEL

Ir. Otje S.R. Bratamidjaja - Chief of Sub Dir. of Land Development
 Ir. Kusnadi Affandi - Chief of Sub Dir. of Water Management
 Mr. Syakhrun Yunan - Administrator of Foreign Aid
 Ir. Aris Wibawa - Consultants' Counterpart
 Ir. Tangkas P. - Consultants' Counterpart

PROVINCIAL AGRICULTURAL SERVICES - REGIONAL COUNTERPARTS

Ir. S.T.M. Sihalono - Medan
 Ir. Herman Beroni - Palembang
 Ir. Sawadi Tjon - Telukbetung
 Ir. Sulaeman N. - Bandung
 Ir. Slamet Sardjito - Mataram
 Ir. John Palit - Manado
 Ir. D. Parrusengi - Ujung Pandang
 Ir. Syahrudin Saleh - Ujung Pandang

SEDERHANA IRRIGATION PROJECT II ^{1/}
MAN-MONTH EXPENDITURES: IECO

MONTH ^{2/}	LONG TERM		SHORT TERM		HOME OFFICE		TOTAL		DISALLOWED BY CLIENT		UNEXPENDED BALANCE TO DATE
	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	REINSTATED (+)							
Jul 80	4.23	4.23	-	-	-	-	4.23	4.23	-	-	477.27
Aug 80	13.65	17.88	-	-	0.22	0.22	13.87	18.10	-	-	463.40
Sep 80	18.19	36.07	-	-	0.02	0.24	18.21	36.31	-	-	445.19
Oct 80	18.93	55.00	-	-	0.26	0.50	19.19	55.50	-	-	426.00
Nov 80	19.87	74.87	-	-	0.07	0.57	19.94	75.44	-	-	406.06
Dec 80	19.83	94.70	-	-	0.03	0.60	19.86	95.30	-	-	386.20
Jan 81	18.55	113.25	-	-	0.28	0.88	18.83	114.13	-	-	367.37
Feb 81	19.71	132.96	-	-	0.15	1.03	19.86	133.99	-	-	347.51
Mar 81	19.64	152.60	-	-	0.11	1.14	19.75	153.74	-	-	327.76
Apr 81	18.97	171.57	-	-	0.72	1.86	19.69	173.43	-	-	308.07
May 81	18.43	190.00	0.63	0.63	0.42	2.28	19.48	192.91	-	-	288.59
Jun 81	18.16	208.16	1.00	1.63	0.12	2.40	19.28	212.19	-	-	269.31
Jul 81	15.87	224.03	1.00	2.63	0.24	2.64	17.11	229.30	-	-	252.20
Aug 81	14.48	238.51	0.42	3.05	0.51	3.15	15.41	244.71	-	-	236.79
Sep 81	15.23	253.74	-	3.05	0.16	3.31	15.39	260.10	-	-	221.40
Oct 81	17.50	271.24	-	3.05	0.05	3.36	17.55	277.65	-	-	203.85
Nov 81	17.39	288.63	-	3.05	0.04	3.40	17.43	295.08	-	-	186.42
Dec 81	15.53	304.16	-	3.05	0.04	3.44	15.57	310.65	-	-	170.85
Jan 82	14.58	318.76	-	3.05	-	3.44	14.58	325.23	-	-	156.27
Feb 82											
Mar 82											
Apr 82											
May 82											
Jun 82											
Jul 82											
CONTRACT ALLOWANCES	-----	446.50	-----	25.00	----	10.00	-----	481.50	-----	-----	-----

^{1/} Contract period: 10 July 1980 - 9 July 1982.

^{2/} Billing period is from 26th of preceding month to 25th of month shown.

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SEDERHANA IRRIGATION PROJECT II ^{1/}
 MAN-MONTH EXPENDITURES: SINOTECH

MONTH	LONG TERM		SHORT TERM		HOME OFFICE		TOTAL		DISALLOWED BY CLIENT		UNEXPENDED BALANCE TO DATE
	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	REINSTATED (+)							
Jul 80	1.16	1.16	-	-	0.21	0.21	1.37	1.37	-	-	187.63
Aug 80	5.25	6.41	-	-	0.21	0.42	5.46	6.83	-	-	182.17
Sep 80	6.00	12.41	-	-	0.21	0.63	6.21	13.04	-	-	175.96
Oct 80	6.00	18.41	-	-	0.21	0.84	6.21	19.25	-	-	169.75
Nov 80	6.57	24.98	-	-	0.21	1.05	6.78	26.03	-	-	162.97
Dec 80	7.00	31.98	-	-	0.21	1.26	7.21	33.24	-	-	155.76
Jan 81	7.00	38.98	-	-	0.21	1.47	7.21	40.45	-	-	148.25
Feb 81	7.00	45.98	-	-	0.21	1.68	7.21	47.65	-	-	141.35
Mar 81	7.00	52.98	-	-	0.21	1.89	7.21	54.87	-	-	134.13
Apr 81	7.00	59.98	-	-	0.21	2.10	7.21	62.08	-	-	126.92
May 81	7.00	66.98	-	-	0.21	2.31	7.21	69.29	-	-	119.71
Jun 81	7.00	73.98	0.50	0.50	0.21	2.52	7.71	77.00	-	-	112.00
Jul 81	7.00	80.98	1.00	1.50	0.21	2.73	8.21	85.21	-	-	103.79
Aug 81	6.81	87.79	1.00	2.50	0.21	2.94	8.02	93.23	-	-	95.77
Sep 81	7.00	94.79	1.00	3.50	0.21	3.15	8.21	101.44	-	-	87.56
Oct 81	7.00	101.79	1.00	4.50	0.21	3.36	8.21	109.65	-	-	79.35
Nov 81	7.00	108.79	1.00	5.50	0.21	3.57	8.21	117.86	-	-	71.14
Dec 81	7.00	115.79	1.00	6.50	0.21	3.78	8.21	126.07	-	-	62.93
Jan 82	5.58	121.37	-	6.50	0.21	4.00	5.79	131.86	-	-	57.14
Feb 82											
Mar 82											
Apr 82											
May 82											
Jun 82											
Jul 82											
CONTRACT ALLOWANCES	----	164.00	----	25.00	---	----	----	189.00	-	-	-----

1/ Contract period: 10 July 1980 - 9 July 1982.

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SEDERHANA IRRIGATION PROJECT II 1/
 MAN-MONTH EXPENDITURES: SANGKURIANG TECHNICAL PERSONNEL

MONTH	LONG TERM		SHORT TERM		HOME OFFICE		TOTAL		DISALLOWED BY CLIENT		UNEXPENDED BALANCE TO DATE
	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	REINSTATED (+)							
Jul 80	3.84	3.84	-	-	-	-	3.84	3.84	-	-	232.66
Aug 80	7.06	10.90	-	-	-	-	7.06	10.90	-	-	225.60
Sep 80	9.00	19.90	-	-	-	-	9.00	19.90	-	-	216.60
Oct 80	9.10	29.00	-	-	-	-	9.10	29.90	-	-	206.60
Nov 80	9.87	38.87	-	-	-	-	9.87	38.87	-	-	197.63
Dec 80	9.94	48.81	-	-	-	-	9.94	48.81	-	-	187.69
Jan 81	9.87	58.68	-	-	-	-	9.87	58.68	-	-	177.82
Feb 81	10.00	68.68	-	-	-	-	10.00	68.68	-	-	167.82
Mar 81	10.00	78.68	-	-	-	-	10.00	78.68	-	-	157.82
Apr 81	10.00	88.68	-	-	-	-	10.00	88.68	-	-	147.82
May 81	10.00	98.68	-	-	-	-	10.00	98.68	-	-	137.82
Jun 81	9.90	108.58	-	-	-	-	9.90	108.58	-	-	127.92
Jul 81	8.29	116.87	-	-	-	-	8.29	116.87	-	-	119.63
Aug 81	8.94	125.81	-	-	-	-	8.94	125.81	-	-	110.69
Sep 81	9.00	134.91	-	-	-	-	9.00	134.91	-	-	101.59
Oct 81	9.00	143.91	-	-	-	-	9.00	143.91	-	-	92.59
Nov 81	9.00	152.91	-	-	-	-	9.00	152.91	-	-	83.59
Dec 81	9.00	161.91	-	-	-	-	9.00	161.91	-	-	74.59
Jan 82	8.84	170.75	-	-	-	-	8.84	170.75	-	-	65.75
Feb 82											
Mar 82											
Apr 82											
May 82											
Jun 82											
Jul 82											
CONTRACT ALLOWANCES	---	236.50	---	---	---	---	---	236.50	---	---	---

1/ Contract period: 10 July 1980 - 9 July 1982.

SEDERHANA IRRIGATION PROJECT II ^{1/}
 MAN-MONTHS EXPENDITURES : SANGKURIANG OFFICE SUPPORT PERSONNEL

MONTH	LONG TERM		SHORT TERM		HOME OFFICE		TOTAL		DISALLOWED BY CLIENT		UNEXPENDED BALANCE TO DATE
	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	REINSTATED (+)							
Jul 80	6.42	6.42	-	-	-	-	6.42	6.42	-	-	197.58
Aug 80	10.00	16.42	-	-	-	-	10.00	16.42	-	-	187.58
Sep 80	10.00	26.42	-	-	-	-	10.00	26.42	-	-	177.58
Oct 80	10.90	37.32	-	-	-	-	10.90	37.32	-	-	166.68
Nov 80	11.00	48.32	-	-	-	-	11.00	48.32	-	-	155.68
Dec 80	11.00	59.32	-	-	-	-	11.00	59.32	-	-	144.68
Jan 81	10.77	70.09	-	-	-	-	10.77	70.09	-	-	133.91
Feb 81	10.00	80.09	-	-	-	-	10.00	80.09	-	-	123.91
Mar 81	9.35	89.44	-	-	-	-	9.35	89.44	-	-	114.56
Apr 81	10.00	99.44	-	-	-	-	10.00	99.44	-	-	104.56
May 81	9.52	108.96	-	-	-	-	9.52	108.96	-	-	95.04
Jun 81	10.47	119.43	-	-	-	-	10.47	119.43	-	-	84.57
Jul 81	10.55	129.98	-	-	-	-	10.55	129.98	-	-	74.02
Aug 81	9.81	139.79	-	-	-	-	9.81	139.79	-	-	64.21
Sep 81	8.37	148.16	-	-	-	-	8.37	148.16	-	-	55.84
Oct 81	9.26	157.42	-	-	-	-	9.26	157.42	-	-	46.58
Nov 81	9.90	167.32	-	-	-	-	9.90	167.32	-	-	36.68
Dec 81	9.58	176.90	-	-	-	-	9.58	176.90	-	-	27.10
Jan 82	8.35	185.25	-	-	-	-	8.35	185.25	-	-	18.75
Feb 82											
Mar 82											
Apr 82											
May 82											
Jun 82											
Jul 82											
CONTRACT ALLOWANCES	---	204.00	---	---	---	---	---	204.00	---	---	---

1/ Contract period: 10 July 1980 - 9 July 1982.

SEDERHANA IRRIGATION PROJECT II ^{1/}
 MAN-MONTH EXPENDITURES: INDRA DEVELOPMENT

MONTH	LONG TERM		SHORT TERM		HOME OFFICE		TOTAL		DISALLOWED BY CLIENT		UNEXPENDED BALANCE TO DATE
	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	REINSTATED (+)							
Jul 80	-	-	-	-	-	-	-	-	-	-	-
Aug 80	-	-	-	-	-	-	-	-	-	-	-
Sep 80	-	-	-	-	-	-	-	-	-	-	-
Oct 80	0.16	0.16	-	-	-	-	0.16	0.16	-	-	102.36
Nov 80	4.20	4.36	-	-	-	-	4.20	4.36	-	-	98.14
Dec 80	5.00	9.36	-	-	-	-	5.00	9.36	-	-	93.14
Jan 81	5.00	14.36	-	-	-	-	5.00	14.36	-	-	88.14
Feb 81	5.00	19.36	-	-	-	-	5.00	19.36	-	-	83.14
Mar 81	5.00	24.36	-	-	-	-	5.00	24.36	-	-	78.14
Apr 81	5.00	29.36	-	-	-	-	5.00	29.36	-	-	73.14
May 81	5.00	34.36	-	-	-	-	5.00	34.36	-	-	68.14
Jun 81	5.00	39.36	-	-	-	-	5.00	39.36	-	-	63.14
Jul 81	5.00	44.36	-	-	-	-	5.00	44.36	-	-	58.14
Aug 81	4.71	49.07	-	-	-	-	4.71	49.07	-	-	53.43
Sep 81	5.00	54.07	-	-	-	-	5.00	54.07	-	-	48.43
Oct 81	5.00	59.07	-	-	-	-	5.00	59.07	-	-	43.43
Nov 81	5.00	64.07	-	-	-	-	5.00	64.07	-	-	38.43
Dec 81	5.00	69.07	-	-	-	-	5.00	69.07	-	-	33.43
Jan 82	4.26	73.33	-	-	-	-	4.26	73.33	-	-	29.17
Feb 82											
Mar 82											
Apr 82											
May 82											
Jun 82											
Jul 82											
CONTRACT ALLOWANCES	----	102.50	---	---	---	---	----	102.50	---	---	-----

^{1/} Contract period: 10 July 1980 - 9 July 1982. The contract with I.D. Consultants was effective October 27, 1980.

BILLING STATUS - USAID DOLLAR ACCOUNT

BILL NO.	MONTH	SUBMITTED		APPROVED		REMARKS
		Date	Amount	Date	Amount	
1.	Jul. 1980	17 Oct 80	\$ 79,257.07	16 Jan 81	\$ 79,257.07	
2.	Aug. 1980	29 Oct 80	\$ 324,725.38	16 Jan 81	\$ 324,725.38	
3.	Sep. 1980	7 Nov 80	\$ 428,595.89	16 Jan 81	\$ 426,053.47	
4.	Oct. 1980	12 Dec 80	\$ 299,627.77	16 Jan 81	\$ 299,627.77	
5.	Nov. 1980	17 Jan 81	\$ 275,227.52	29 Jan 81	\$ 275,227.52	
6.	Dec. 1980	27 Feb 81	\$ 242,419.80	14 May 81	\$ 241,300.91	
7.	Jan. 1981	14 Mar 81	\$ 225,141.43	14 May 81	\$ 224,180.98	
8.	Feb. 1981	31 Mar 81	\$ 234,185.54	14 May 81	\$ 234,000.57	
9.	Mar. 1981	30 Apr 81	\$ 213,138.88	29 May 81	\$ 212,313.12	
10.	Apr. 1981	30 May 81	\$ 213,174.67	17 Jun 81	\$ 213,174.67	
11.	May 1981	30 Jun 81	\$ 217,020.30	29 Jul 81	\$ 217,020.30	
12.	Jun 1981	31 Jul 81	\$ 255,698.60	17 Sep 81	\$ 254,834.27	
13.	Jul 1981	31 Aug 81	\$ 250,735.97	24 Sep 81	\$ 250,715.32	
14.	Aug. 1981	30 Sep 81	\$ 243,606.10	22 Oct 81	\$ 240,107.56	
15.	Sep. 1981	21 Nov 81	\$ 264,435.79	21 Nov 81	\$ 263,018.35	
16.	Oct. 1981	26 Nov 81	\$ 236,280.65	11 Dec 81	\$ 234,582.54	
17.	Nov. 1981	5 Dec 81	\$ 72,653.89 ^{1/}	11 Dec 81	\$ 72,653.89	

1/ Partial submittal.

BILLING STATUS - DGWRD RUPIAH ACCOUNT

BILL NO.	MONTH	SUBMITTED		APPROVED		REMARKS
		Date	Amount	Date	Amount	
1.	Jul. 1980	17 Nov. 80	Rp. 1,089,914	12 Jan. 81	Rp. 1,089,914	
2.	Aug. 1980	17 Nov. 80	Rp. 2,644,975	12 Jan. 81	Rp. 2,644,975	
3.	Sep. 1980	17 Nov. 80	Rp. 3,700,050	12 Jan. 81	Rp. 3,700,050	
4.	Oct. 1980	23 Dec. 80	Rp. 3,813,530	12 Jan. 81	Rp. 3,813,530	
5.	Nov. 1980	30 Dec. 80	Rp. 4,725,430	21 Feb. 81	Rp. 4,725,430	
6.	Dec. 1980	31 Jan. 80	Rp. 5,117,345	21 Feb. 81	Rp. 5,117,345	
7.	Jan. 1981	28 Feb. 81	Rp. 3,751,070	17 Jun. 81	Rp. 3,751,070	
8.	Feb. 1981	25 Mar. 81	Rp. 4,588,560	17 Jun. 81	Rp. 4,588,560	
9.	Mar. 1981	30 Apr. 81	Rp. 4,496,957	17 Jun. 81	Rp. 4,496,957	
10.	Apr. 1981	30 May 81	Rp. 4,072,310	24 Aug. 81	Rp. 4,072,310	
11.	May 1981	30 Jun. 81	Rp. 4,181,259	24 Aug. 81	Rp. 4,181,259	
12.	Jun. 1981	31 Jul. 81	Rp. 5,295,965	13 Oct. 81	Rp. 5,295,965	
13.	Jul. 1981	31 Oct. 81	Rp. 2,368,180	23 Nov. 81	Rp. 2,368,180	
14.	Aug. 1981	31 Oct. 81	Rp. 4,404,905	23 Nov. 81	Rp. 4,404,905	
15.	Sep. 1981	30 Dec. 81	Rp. 4,034,445	25 Jan. 82	Rp. 4,034,445	
16.	Oct. 1981	30 Dec. 81	Rp. 4,093,035	25 Jan. 82	Rp. 4,092,935	
17.	Nov. 1981	30 Dec. 81	Rp. 3,576,940	25 Jan. 82	Rp. 3,569,440	

BILLING STATUS - DGFC RUPIAH ACCOUNT

BILL NO.	MONTH	SUBMITTED		APPROVED		REMARKS
		Date	Amount	Date	Amount	
1.	Jul. 1980	17 Nov. 80	Rp. 114,190	12 Jan. 81	Rp. 114,190	
2.	Aug. 1980	17 Nov. 80	Rp. 1,062,050	12 Jan. 81	Rp. 1,062,050	
3.	Sep. 1980	17 Nov. 80	Rp. 2,238,847	12 Jan. 81	Rp. 2,238,847	
4.	Oct. 1980	23 Dec. 80	Rp. 3,576,110	12 Jan. 81	Rp. 3,576,110	
5.	Nov. 1980	30 Dec. 80	Rp. 2,932,940	21 Feb. 81	Rp. 2,932,940	
6.	Dec. 1980	31 Jan. 81	Rp. 4,482,105	21 Feb. 81	Rp. 4,482,105	
7.	Jan. 1981	28 Feb. 81	Rp. 5,241,455	25 Sep. 81	Rp. 5,241,455	
8.	Feb. 1981	25 Mar. 81	Rp. 7,007,095	25 Sep. 81	Rp. 7,007,095	
9.	Mar. 1981	30 Apr. 81	Rp. 3,691,671	25 Sep. 81	Rp. 3,691,671	
10.	Apr. 1981	30 May. 81	Rp. 4,841,175	25 Sep. 81	Rp. 4,841,175	
11.	May 1981	30 Jun. 81	Rp. 6,490,522	25 Sep. 81	Rp. 6,490,522	
12.	Jun. 1981	31 Jul. 81	Rp. 4,240,070	25 Sep. 81	Rp. 4,240,070	
13.	Jul. 1981	31 Oct. 81	Rp. 4,210,140			
14.	Aug. 1981	31 Oct. 81	Rp. 5,011,325			
15.	Sep. 1981	30 Dec. 81	Rp. 4,463,510			
16.	Oct. 1981	30 Dec. 81	Rp. 4,840,735			
17.	Nov. 1981	30 Dec. 81	Rp. 3,757,855			