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THE UNITED STATES OF AMERICA AGENCY FOR INTERNATIONAL DEVELOPMENT

and

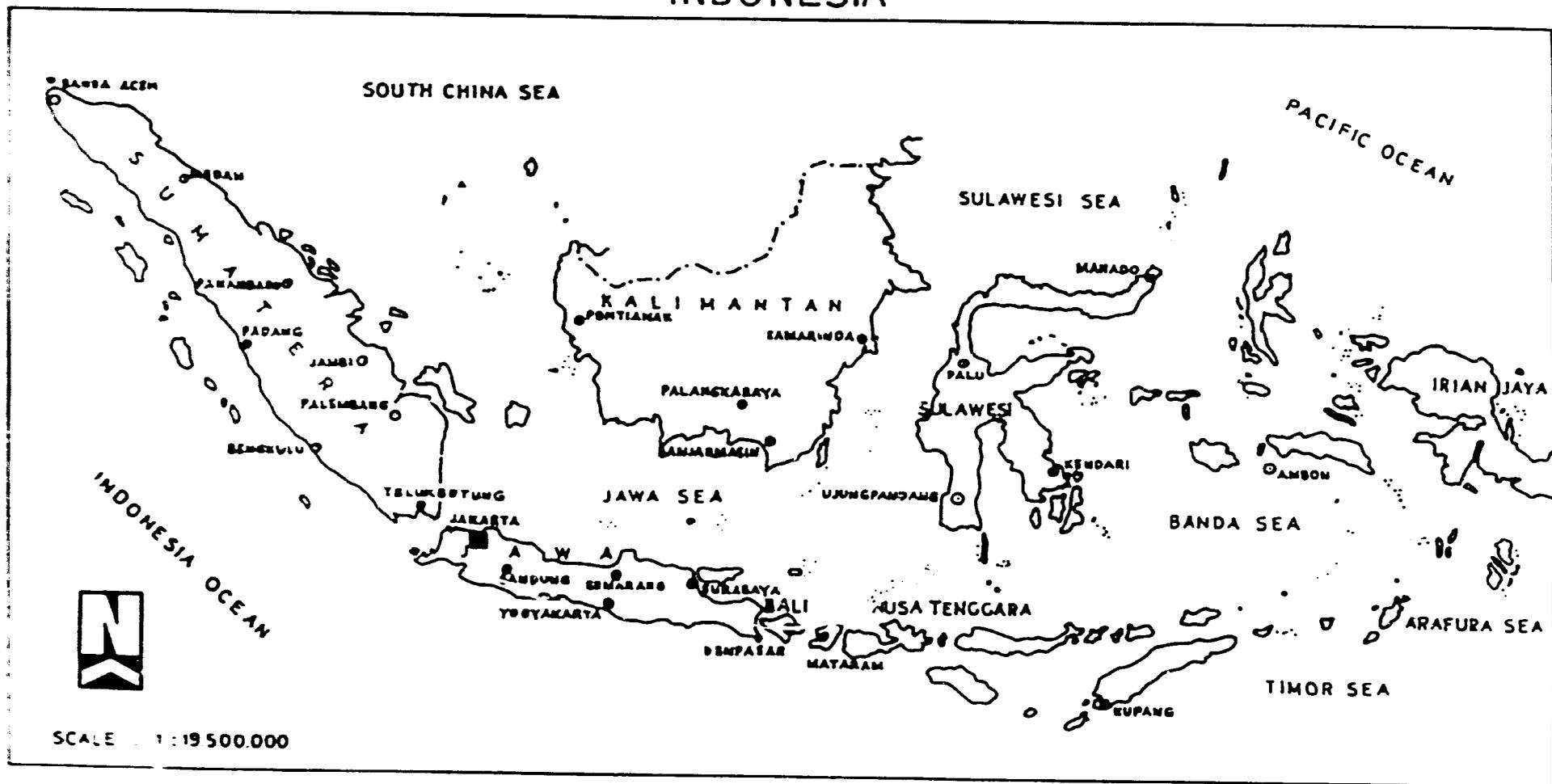
THE DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
of the
MINISTRY OF PUBLIC WORKS
representing
MINISTRY OF PUBLIC WORKS AND THE MINISTRY OF AGRICULTURE
GOVERNMENT OF INDONESIA

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

MONTHLY PROGRESS REPORT NO. 23
FOR PERIOD
MAY 1, 1982 - MAY 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



1. INTRODUCTION

The Contract between the United States of America, Agency of 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 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 twenty-third Monthly Report is submitted in accordance with Appendix A, Article K, Subarticle a of the Contract. It covers major events from May 1, through May 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 subproject inspections, subproject design reviews, certification of completed works, program monitoring, and updating the tertiary inventory, the status of active subprojects and the land development inventory.

Visits were made by the Central Advisory Team to Provincial and Regional Offices in Telukbetung, Lampung; Bengkulu; Bandung; West Java; Pontianak; West Kalimantan; and Ujung Pandang, South Sulawesi.

The Provincial Irrigation Engineers and Area Engineers performed subproject inspections in West Sumatra, Riau, Bengkulu, Lampung, East Java, Yogyakarta, West Kalimantan, Central Kalimantan, North Sulawesi, Central Sulawesi, South

Sulawesi and East Nusa Tenggara; design reviews in West Sumatra; and certifications in North Sumatra, West Sumatra, Riau, Bengkulu, West Kalimantan and Central Kalimantan.

The Regional Agricultural Teams performed subproject inspections in Riau, South Sumatra, Bengkulu, Lampung, West Java, Central Java, West Kalimantan, North Sulawesi, South Sulawesi, Southeast Sulawesi and West Nusa Tenggara; design reviews in North Sulawesi; and certifications in North Sumatra, West Sumatra, Riau, South Sumatra, Bengkulu, West Java, West Kalimantan, Southeast Sulawesi and West Nusa Tenggara.

Provincial Irrigation Engineers and Regional Agricultural Teams were given further instruction regarding their respective programs including area of responsibility, works schedules and priorities. Special emphasis was given to establishing which subprojects will have certifiable major works and/or tertiary works by June, 1982. The subprojects which require WUA certification were also established.

Efforts continued through most of the reporting period to prepare detailed programs for certification of major works and tertiary works constructed by DPU.

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, and meeting with DGWRD, DGFC and USAID officials concerning the program.

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

On May 31, 1982, 9 Certifications of Technical Soundness and 9 Certifications of Completion of Construction of Subproject Major Works were submitted to the DGWRD.

3.1 SUPPORT ACTIVITIES

On May 10 and 11, 1982, Mr. C.E. Aksamit, Resident Manager was in Bengkulu to meet with the Regional Agricultural Team and Provincial Irrigation Engineer and review the progress of their work in Bengkulu Province. Discussions were held with members of the Consultants staff and officials of Provincial Agricultural Services and Provincial Public Works on the respective monitoring programs and certifications of completed work.

From May 10 to 13, 1982, Mr. R.E. Dixon, Area Engineer visited the Provincial Public Works Office in Ujung Pandang, South Sulawesi. Subprojects Leang-Leang and Kajenjeng were inspected and problems were discussed with the DPU staff.

From May 10 to 14, 1982, Mr. J.A. Erickson, Area Engineer and Ir. Irdam Adil, Irrigation Design Engineer visited West Kalimantan Province. The primary purpose of the trip was field inspection visits for certifications of completed subprojects.

On May 11 and 12, 1982, Mr. R.T. Edwards, Agricultural Coordinator, visited the Telukbetung Agricultural Advisory Team for program review and assistance with their subproject certification.

From May 12 to 15, 1982, Mr. J.Y. Hsu, Water User Association (WUA) Advisor, assisted the Bandung Agricultural Advisory Team with their program for upgrading the WUA. Two Subprojects, Cukang Sadang (237 ha) and Cikamal (226 ha), were visited and discussions held with the District, Sub-District and Village officials on strengthening the farmers training and participation for improvement of the tertiary development and water management practices.

On May 14 and 15, 1982, Mr. R.T. Edwards, Agricultural Coordinator, visited the Bandung Regional office for program review and to assist the Agricultural Advisory Team with the editing of Mr. T.H. Lee's technical paper from his Water Management Seminar for the DAAD Staff.

From May 13 to 15, 1982, Mr. R.E. Dixon, Area Engineer visited the Provincial Public Works Office in Palu, Central Sulawesi. Meetings were held with the Chief of Water Resources and staff regarding Subproject Certifications, Major Works and Tertiary Status, and Monthly Monitoring.

From May 24 to 28, 1982, Mr. R.E. Dixon, Area Engineer and Ir. Irdam Adil, Irrigation Design Engineer visited Provincial Public Works Office in Samarinda, East Kalimantan. Meetings were held with the Chief of Water Resources and staff regarding subproject major works and tertiary status, tertiary inventory and monthly monitoring. Subprojects Handil Baru and Babulu Darat were inspected for tertiary construction completion certifications.

From May 24 to 28, 1982, Mr. J.A. Erickson, Area Engineer and Ir. A. Afif, Irrigation Design Engineer visited Central Kalimantan province. The primary purpose of the trip was field inspection visits for certification of completed subprojects. Discussions were also held with the Ir. Berti, The Sederhana Engineer concerning the latest design drawings for Subproject Tringsing.

Mr. C.E. Aksamit attended the Fourth Joint Agricultural Conference held in Semarang from May 26 to 30, 1982 which is discussed further in this report.

3.2 PROGRAM MONITORING

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

	Number of Provinces					
	With Active Subprojects		Monitoring Implemented		Monitoring Submitted this Month	
	<u>DGWRD</u>	<u>DGFC</u>	<u>DGWRD</u>	<u>DGFC</u>	<u>DGWRD</u>	<u>DGFC</u>
1976/77	0	6	0	6	0	2
1977/78	0	7	0	6	0	2
1978/79	13	7	12	7	6	4
1979/80	22	13	22	13	17	8
1980/81	23	10	23	10	17	6
1981/82	23	23	23	23	18	15
1982/83	23	23	13	0	14	0

The status of the April 31 Monthly monitoring submittals from each Province for each Program Year are presented in Table III-1 for the DGWRD and Table III-2 for the DGFC

3.3 MEETINGS

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

- On May 3, 1982, Mr. R.T. Edwards, Agricultural Coordinator, joined the meeting held by the DAAD staff and Ford Foundation on the HPSIS Program.
- On May 3 and 25, 1982, Mr. C.E. Aksamit, Resident Manager, held discussions with officials of USAID on extension of the Consultants services and administrative matters concerning closing out of the Consultant's Contract ending July 9, 1982.
- On May 5, 15 and 31, 1982, Mr. C.E. Aksamit, Resident Manager met with officials of DGFC on extension of the Consultant services and the need to advance funds to the Consultants to carry out their work.
- On May 13 and 25, 1982, Mr. C.E. Aksamit, met with officials of DGWRD on extension of the Consultants services and the Consultants work program up to July 9, 1982.
- On May 22, 29 and 31, 1982, Mr. B.C. Ferguson, Assistance Resident Manager met with officials of USAID regarding the disposal of the miscellaneous household purchases.

3.4 JOINT AGRICULTURAL CONFERENCE

The Fourth Joint Agricultural Conference was held in Semarang from May 27 to 29, 1982. Members of the Consultants Central and Provincial Agricultural Advisory Teams attended the meeting. The Consultants Counterparts from the Central and Provincial Team and officials from the DGFC, GDWRD, USAID and Ford Foundation were also in attendance.

The main purpose of the conference was to review the progress of work since the last conference in December 1981, determine the Consultants work program until the end of the contract on July 9, 1982 and formulate the future Sederhana Program for the period from July 1982 to July 1984.

Major items or activities of each day's meetings were as follow:

May 27, 1982

- Field trip to the Land Development Project (UPP) of Wonogiri District of Central Java Province.
- Opening ceremony with opening remark by Mrs. Sulbiyati, Chief, DIPERTA of Central Java; Mr. Semito S., Director of DAAD; Mr. W.J. Ackerman, Sederhana Project Officer, USAID; and Mr. C.E. Aksamit, Resident Manager, Consultants.

May 28, 1982

- Presentation by Mr. W.J. Ackerman, Sederhana Project Officer, USAID, on the USAID proposals for the HPSIS Program and concept of the Community Organizer Program.
- Presentation by Dr. Jan Gerards, USAID Water Management Consultant, on the HPSIS Program.
- Presentation by Mr. Mamad Ismail, Chief, Sub-Directorate of Construction Management II, DGWRD, on the Community Organizer Program.
- Summary Reports by each Consultant's Team Leader of respective Regional Teams on their activities and progress of work.
- Progress report by Mr. S.M. Lee, Land Development Engineer, on the Survey and Design for Land Development.

May 29, 1982

- Open discussion by participants on the future program for the Sederhana Project.
- Presentation by Mr. Kusnadi A., Chief, Sub-Directorate of Water Management, DAAD, on the proposed responsibility for formation of WUA.
- Presentation by Mr. S. Yunan, Administrator for Foreign Aid, DAAD, on Land Development Pilot Project.
- Presentation by Mr. H.Y. Hsu, WUA Advisor, on Strategy for Development of Irrigation System and Water User Association.
- Conclusions and recommendations were presented by Mr. Yunan.
- Closing remarks by Mr. Semito S., Director, DAAD read by Mr. Kusnadi A.

TABLE 111
STATUS OF DGWRD MONITORING PROGRAM
MAY, 1982 1/

PROVINCE	PROGRAM YEAR						
	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83
Aceh	-	-	-	Complete	Complete	Complete	Complete
North Sumatra*	-	-	-	Complete	Complete	Complete	Complete
West Sumatra*	-	-	Complete	Partial	Complete	Complete	Complete
Riau	-	-	Complete	Partial	Partial	Partial	Complete
Jambi	-	-	NS	Complete	Complete	Complete	Partial
South Sumatra*	-	-	NS	Complete	Partial	Complete	Partial
Bengkulu	-	-	-	Complete	Complete	Complete	NS
Lampung*	-	-	-	Complete	Complete	Complete	Partial
West Java	-	-	-	Partial	Complete	Complete	Complete
Central Java	-	-	-	NS	NS	NS	NS
D.I. Yogyakarta	-	-	-	NS	NS	Complete	NS
East Java	-	-	-	-	NS	NS	NS
West Kalimantan	-	-	NS	NS	NS	NS	NS
Central Kalimantan	-	-	-	NS	NS	NS	NS
South Kalimantan	-	-	NS	Complete	Partial	Complete	Complete
East Kalimantan	-	-	NS	Complete	Complete	Complete	Complete
North Sulawesi*	-	-	Complete	Complete	Complete	Complete	Complete
Central Sulawesi	-	-	Complete	Complete	Complete	Complete	Partial
South Sulawesi*	-	-	Complete	Complete	Complete	Complete	Partial
Southeast Sulawesi	-	-	NS	NS	NS	NS	NS
Bali	-	-	-	-	-	-	-
West Nusa Tenggara*	-	-	Complete	Partial	Complete	Complete	Complete
East Nusa Tenggara	-	-	NS	Complete	Partial	Complete	NS
Maluku	-	-	-	Complete	Complete	Complete	NS

* designates home province
 - designates not required
 NS designates not submitted
 1/ Monitoring Submitted 30 April 1982

TABLE III - 2
 STATUS OF DGFC MONITORING PROGRAM
 MAY, 1982 1/

PROVINCE	PROGRAM YEAR						
	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83
Aceh	-	-	-	-	Complete	Complete	NS
North Sumatra*	-	-	-	Complete	Complete	Complete	NS
West Sumatra*	-	Complete	-	Complete	Complete	Complete	NS
Riau	Complete	-	-	-	-	Complete	NS
Jambi	NS	NS	-	NS	-	NS	NS
South Sumatra*	-	-	-	Complete	Complete	Complete	NS
Bengkulu	NS	NS	-	NS	NS	NS	NS
Lampung*	-	-	Complete	Complete	Complete	Complete	NS
West Java	Complete	Complete	Complete	-	-	Complete	NS
Central Java	-	-	-	-	-	Complete	NS
D.I. Yogyakarta	-	-	-	NS	-	NS	NS
East Java	-	-	-	-	NS	NS	NS
West Kalimantan	NS	-	Complete	Complete	-	Complete	NS
Central Kalimantan	-	NS	-	-	NS	NS	NS
South Kalimantan	NS	NS	-	NS	-	NS	NS
East Kalimantan	-	NS	NS	-	NS	NS	NS
North Sulawesi*	-	-	-	Complete	-	Complete	NS
Central Sulawesi	-	-	-	-	-	Complete	NS
South Sulawesi*	-	-	-	-	-	Complete	NS
Southeast Sulawesi	-	-	NS	NS	-	NS	NS
Bali	-	-	-	-	-	Complete	NS
West Nusa Tenggara*	-	-	Complete	Complete	Complete	Complete	NS
East Nusa Tenggara	-	-	-	Complete	-	Complete	NS
Maluku	-	-	NS	-	-	NS	NS

* designates home province
 - designates not required
 NS designates not submitted
 1/ Monitoring Submitted 30 April 1982

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

The activities of the Jakarta office staff in support of the Provincial Irrigation Engineers are presented in Section 3.1 - Support 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.

4.2 IRRIGATION ENGINEERING ACTIVITIES - PROVINCIAL OFFICES

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 works; 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, prepared certifications of completed subprojects. He also assisted with subproject selection, submittals of subproject schematics and cost estimates, implementation of the monitoring program, development and implementation of O & M programs and preparation of reports.

Drs. Tampubolon BIE, Coordinator of North Sumatra Sederhana Office will be transferred to Section Simalungan as Chief of Section on June 1, 1982. On May 27, Drs. Tampubolon visited Mr. Lizardo to discuss his new work responsibility. He was advised to pattern his activities after those developed for the Sederhana Program. Specifically, programs for subproject selection, surveying and mapping checking, design review, construction supervision and inspection, as-built drawings, operation and maintenance, and monitoring should follow the examples set under the Sederhana Program.

Both DPU and DIPERTA have completed survey and design of tertiary works for overlapping areas on Subprojects Sihail-Hail, Aek Mandosi I & II, and Aek Sitanding Sigoit. Efforts were made to develop coordination activities that will prevent future duplications of efforts.

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 with subproject selection, design reviews, construction problems, upgrading of construction supervision and inspection, upgrading the monitoring program, upgrading of Sederhana Staff, coordination with agricultural programs, development of an O & M program and annual O & M inspections.

From May 17 to 19 and 22, 1982, Mr. Lizardo visited DPU Section Offices in Kabupaten Pesisir Selatan and Limapuluh Kota in the home province. Discussions were held concerning the certification program, construction progress and special problem areas. O & M activities and the Annual O & M Inspection Program were discussed in detail.

From May 18 to 23, 1982, Messrs. Istiyono and Taryono of DGWRD Office, Jakarta visited West Sumatra DPU Offices to coordinate the proposed HPSIS Program, submittals of designs and cost estimates to USAID and other related matters.

From May 26 to 28, 1982, Annual O & M Inspections were made on Subprojects Air Tambang (297 ha) and Air Singkarak (128 ha) in Kabupaten Pesisir Selatan. A Joint Meeting was held in the Bupati's Office attended by Mr. Ismail Lengah S.H., Bupati, Mr. Lizardo, Mr. Syahril Bahar, the DIPERTA Section Chief, and his staff, DPU Provincial and Section level staff, local government officials, and members of the Water Users Association. Agreements were made that P3A would assist DPU in maintaining the irrigation system on the above mentioned subprojects.

From May 26 to 30, 1982, seminars and field trips were made for orientation of local farmers on the formation of Water Users Association. Some 80 farmers participated in visits to selected subprojects in the Pesisir Selatan and Limapuluh Kota Kabupatens in West Sumatra. Ir. Gunawan, Chief of the O & M Group, DPU, in Riau Province and Mr. R.S.F. Lizardo assisted in the organization and coordination of these activities.

C. Palembang Provincial Office (Jambi & South Sumatra) - During the reporting period Mr. M.J. Crawford, the Provincial Irrigation Engineer, made a four-day trip to Lubuk Linggau area to inspect subprojects for possible certification. Another four-day trip was made to Jambi for the purpose of initiating reporting of monitoring data on the latest revised forms and to make assignments for the collection of other needed data. A one-day field trip was made to nearby Sekojo Ujung.

A three-hour meeting at Sekojo Ujung was held with a group of about 30 members of P3A Sekojo Ujung. The main purpose of the meeting was to discuss problems being encountered by the farmers and the management program in this area. This meeting was sponsored jointly by Mr. Romeo P. Miras, of the Regional Agricultural Team and Mr. M.J. Crawford.

The four-day trip to Lubuk Linggau included the inspection of Subproject Air Tupak and Megang Tikip. There is still work to be done on both of these subprojects before they can be certified.

The four-day trip to Jambi was made together with the Sederhana Office Manager, Mr. Badaruddin. The time was spent in the DPU Offices explaining the monitoring requirements as contained in the latest revised guidelines. Assistance

was given in filling out the new forms (M2, M4, M5) for the April 30, 1982 report wherein Major Works and Tertiary Works are listed on the same reporting sheets. Specific assignments were made to bring the monitoring up to date.

D. Telukbetung Provincial Office (Bengkulu and Lampung) - During the reporting period, Mr. D.W. Holloway, Provincial Irrigation Engineer made field inspection trips and prepared certifications of completed subprojects. He also assisted with the preparation of as-built schematics, construction supervision, and an annual O & M inspection.

The current program of joint O & M inspections was completed with a visit to Way Jagang in Lampung Utara by Mr. Holloway, the Regional Agricultural Team, and members the DPU staff from provincial and Section levels. A report of the result of this inspection was counter-signed and presented to the parties concerned.

From May 10 to May 15, 1982, Mr. Holloway visited Bengkulu Province. On May 10 meetings were held with Mr. C.E. Aksamit, the Resident Manager, Ir. A. Afif, Irrigation Design Engineer, the Palembang Regional Agricultural Team and Provincial level staff from DIPERTA and DPU Bengkulu. A detailed program for certification of On-Farm Works, Water Users Association and DPU Tertiary Works evolved from these meetings. For the remainder of the visit to Bengkulu, Mr. Holloway, DPU staff, and members of the Regional Agricultural Team visited Subprojects in Kabupaten Bengkulu Utara, Bengkulu Selatan, and Rejang Lebong for certification of both tertiary and major works.

E. Bandung Provincial Office (West Java, Central Java, D.I. Yogyakarta and East Java) - The principal activities of this office during the reporting period included field inspection trips to subprojects for special problems and certifications, coordinating programs with the Provincial Agricultural services and assisting the Provincial DPU Staff with other activities such as the new monthly monitoring guidelines, subproject selection and checking of survey and designs.

From May 10 to 13, 1982, Mr. M.C. Christensen, Provincial Irrigation Engineer visited East Java Province for the purpose of subproject certifications and to assist the Provincial Public Works Staff with on-going programs.

Meetings were held with Ir. Warsito Heru Dewanto, Chief of Water Resources, Mr. Darsono, Sederhana Engineer and other Public Works Staff to discuss the certification of the Tertiary Works and Water Users Association for Subproject Ulu - Ulu Banyu; new monthly monitoring guidelines and its implementation for Program Year 1982/83; subproject selection for Program Year 1982/83; and the time table for completion of subproject selection questionnaires and upgrading of Sederhana subprojects to technical classification.

From May 25 to 29, 1982, Mr. M.C. Christensen visited Yogyakarta for the purpose of subproject certifications and to assist the Provincial Public Works Staff with on-going programs.

Meetings were held with Mr. Sutandiyono BE, Chief of Water Resources, Mr. Djajus, Sederhana Engineer and other Public Works Staff to discuss the certification of Subproject Ketanggo and Randu; new monthly monitoring guidelines and its implementation for Program Year 1982/83; subproject selection for Program 1982/83; and the time table for completion of subproject selection questionnaires and upgrading of Sederhana projects to technical classification.

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, assisting in organizing the team for annual O & M inspection, assisting in the monitoring program and assisting in design revisions.

From May 5 to 6, 1982, Mr. Regonas and Regional Agricultural Team organized and prepared a schedule for the annual O & M inspection in Sections Minahasa and Bolaang Mongondow.

From May 10 to 15, Mr. Regonas visited Palu, Central Sulawesi with Mr. R.E. Dixon, Area Engineer, who arrived on May 13, 1982. Discussions were held with the Chief of Water Resources and staff regarding the tertiary works inventory, monitoring program, subproject certification and the missing for reimbursement of completed work.

On May 22, 1982, Ir. Mamad Ismail, Chief of Sub-Dir. of Construction Management II and Mr. Syaefullah S. BIE, Chief of Section VI arrived in Manado, North Sulawesi and visited Subproject Pentu (231 ha), HPSIS subproject under 1981/82 program. They were accompanied on the trip by Ir. R. Tewu, Chief of Water Resources, Mr. R. Suatmadja BIE, Sederhana Engineer and Mr. Regonas.

G. Ujung Pandang Provincial Office (South and Southeast Sulawesi) - During the reporting period, Mr. C.F. Sayer, Provincial Irrigation Engineer, concentrated his efforts on subproject certifications, design reviews, revising master copy forms of the monthly monitoring program and liaison with the Provincial Agricultural Team on certification of completed tertiary works and IUA's.

Mr. R.E. Dixon, Area Engineer, visited Ujung Pandang from May 10 through May 13, 1982. Together with the Provincial Irrigation Engineer and members of DPU Provincial Staff, he visited Subproject Leang-Leang in Kabupaten Maros, a selected HPSIS Subproject, and Subproject Kajenjeng in Kabupaten Gowa. The status of these two subprojects was discussed in detail with members of Provincial staff.

H. Mataram Provincial Office (Bali, West Nusa Tenggara and East Nusa Tenggara) - During the reporting period, the major activities of Mr. L.P. Lim, Provincial Irrigation Engineer were field inspections of subprojects under construction and subprojects completed for possible certifications. Mr. Lim also assisted in the preparation of monitoring reports for the provinces of East and West Nusa Tenggara.

On May 6, 1982, Mr. Lim attended a meeting with Mr. H.Y. Huang, Agricultural Team Leader and Ir. H. Masnun, Chief of Water Resources in Mataram regarding the annual O & M inspection; this meeting was attended by representatives from DPU Sections, DIPERTA and BAPEDA. A meeting was held with Mr. Sutrisno, Chief of Provincial O & M to resolve some problems in the Annual O & M program.

On May 14 to 24, 1982, Mr. Lim visited the Kupang Office. Meetings were held with Ir. Hartono, Chief of Water Resources, Mr. Bastomi, Chief of Construction, and Drs. D. Harlandja. Discussions included field construction supervision problems of on-going projects, planning and programming of works and monthly monitoring. Mr. Lim also inspected on-going projects on Timor Island during this visit.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
West Sumatra	Punggung Kasiek	1-C	80/81	4243	893	5/6	Certification	Certifiable, but new area requires some maintenance. 1981/82 drainage works are incomplete but functional. Proposed additional drainage works for construction.
		7-I	81/82		0	5/7	Completion	
		3-I	82/83		0	5/7	Design Review	
	Ampang Tulak	7-N	79/80	963	963	5/18	Certification	1981/82 DPU Tertiary still incomplete not certifiable.
	Air Tambang	NA	74/75	297	297	5/27	Special Purpose	Annual O & M Inspection
Air Singkarak	1	76/77	128	128	5/27	Special Purpose	Annual O & M Inspection	
Riau	Muara Jalai	7	76/77	400	400	5/11	Special Purpose	Joint inspection with DIPERTA and DPU for evaluation of project development. P3A already active.
	Salo	1	76/77	265	265	5/11	Special Purpose	Joint inspection with DIPERTA and DPU for evaluation of project development.
	Sei Pangoan	2-N	79/80	265	265	5/11	Certification	Certifiable. Farmers to organize P3A. Major works are complete and functional. O & M needed.
		7-I	81/82		0	5/11	Completion	
			NA	82/83		0	5/11	Design Review
Kebon Durian	3	76/77	194	194	5/12	Special Purpose	Joint inspection with DIPERTA and DPU for evaluation of project development. Few farmers. Manpower problem.	

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

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
Riau (Cont'd)	Petapahan Toar	4-N	79/80	180	180	5/12	Special Purpose	Joint inspection with DIPERTA and DPU for evaluation of project development
	Lubuk Ambacang	5-N	79/80	140	140	5/12	Certification	Certifiable. Farmers to organized P3A Certifiable. Improvement works are incomplete but functional. DPU Tertiary work construction
		2-C	80/81			5/12	Certification	
		1-C	81/82			5/12	Completion	
		NA	82/83		0	5/12	Design Review	
	Barabah	20	76/77	300	172	5/13	Special Purpose	Joint inspection with DIPERTA and DPU for evaluation of project development. P3A not active. Manpower problem. Improvement works are complete and functional.
81/82			5/13			Completion		
Lampung	Way Jagang	3	76/77	205	0	6	Special Purpose	Joint O & M inspection. Canal damage noted.
	Way Langsep	3-I	80/81	80	80	7	Certification	Certifiable. Upgrading of gabion weir to masonry.
	Way Lunik Penengahan ^{2/}	6	77/78	279	50	26	Certification	Not certifiable. DPU Tertiary works. Water supply and distribution problem.
	Way Andak	4-I	81/82	168	0	27	Certification	Not certifiable. 1981/82 Improvement complete, but weir and canal structures have been damaged.
Bengkulu	Air Rindu Hati	10	75/76	156	106	11	Certification	Not certifiable. DPU Tertiary works are complete and functional. DIPERTA Tertiary works not functional.

^{1/} Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.
^{2/} Certified 21 March 1979

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
Bengkulu (Cont'd)	Air Putih Cawang	3	74/75	287	287	11	Certification	DPU Tertiary works are complete and functional; much of area planted to coffee. DIPERTA Tertiary works are not functional and not certifiable.
	Air Embong III	17	76/77	675	675	12	Certification	Certifiable. DPU & DIPEPTA Tertiary works.
	Air Selebang	10	76/77	1027	685	13	Certification	DPU Tertiary works certifiable. DIPERTA Tertiary works not functional, not certifiable.
	Air Kedurang Lubuk Napalan	3-I	79/80	358	NA	14	Certification	Certifiable. Major works improvements are complete and functional.
East Java	Ulu-Ulu Banyu	1-N	80/81	400	400	5/11	Certification	Tertiary works not certifiable. No tertiary work to certify
	Kedong Pengaron	2-N	82/83	408	0	5/12	Special Purpose	
Yogyakarta	Ketanggo	2-N	79/80	125	125	5/26	Certification	Tertiary works not certifiable. Further inspection needed.
	Randu	2-N	80/81	144	0	5/26	Certification	Not certifiable. Canal damaged, 1982/83 Improvement scheduled.
West Kalimantan	Pak Kadu	2-N	80/81	115	115	5/12	Certification	Certifiable
	Runut	6-N 5-I	70/80	184	0	5/12	Special Purpose	Subproject not yet complete. Weir abutments (flood embankments) are not technically sound.
	Seburuk	4-N 3-I	79/80 81/82	238	187	5/13	Certification Completion	Certifiable Complete and functional.

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

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
West Kalimantan (Cont'd)	Seiense	1-N	80/81	251	152	5/13	Certification	Not certifiable. The work is complete and functional but the weir spillway capacity is too small and the flood embankments have already been breached and repaired.
	Pasuk Kayu	1-N 4-I	79/80 81/82	262	0	5/13	Special Problem	Not yet complete. About 20 hectares of rice will be flooded from the backwater of the completed weir. Purchase of the upstream rice fields was recommended
Central Kalimantan	Tumpang Laung	1-N 1-C	80/81 81/82	521	469 52	5/25	Certification Completion	Certifiable, 1981/82 work complete and functional. DPU Tertiary construction about 50% complete.
	Tanjung Jawa	2-N	80/81	392	392	5/25	Certification	Certifiable. DPU Tertiary works about 90% complete.
	Bering Bengkel I	1	77/78	1000	1000	5/28	Special Purpose	Reclamation, Transmigration subproject, Highly acid peat soils. Bogor Agricultural Institute has established a trial farm. No economic agricultural potential has been established to date.
North Sulawesi	Pentu	5-I	81/82	231	0	5/5	Completion	Completed and functional
	Motondong	5-I	80/81	135	0	5/6	Special Purpose	Improvement works under O & M Program
	Kaluntai	6-I	80/81	303	0	5/6 & 5/18	Special Purpose	Annual O & M inspection
	Yantaton	6	77/78	369	369	5/7 & 5/19	Special Purpose	Annual O & M inspection

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

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
Central Sulawesi	Saroso	2-C	79/80	1200	682	5/11	Construction	Original contract rescinded. Remaining works under two contracts. Mobilization underway.
		11-I	81/82	1200	0	5/11	Completion	
	Kasiguncu	1-N	79/80	788	788	5/12	Certification	Not certifiable, not fully functional; additional drainage and road crossings, and canal construction under 1982/83 program.
		14-I	81/82	788	0	5/12	Completion	Completed and functional.
South Sulawesi	Leang-Leang	1-C	79/80	640	500	5/11	Special Purpose	Inspection of existing works and sites of proposed works.
	Kajenjeng	16-N 2-I	76/77 80/81	731	200	5/12	Special Purpose	Inspection of works for discussion of problems involved in making subproject functional
East Nusa Tenggara	Haekto	7	80/81	400	NA	5/17	Construction	Intake and side spillway structure. Relocated inland by \pm 200 m.
	Nain	1-I	80/81	366	13	5/17	Construction	No activity at the time of inspection
	Nobelu	5-I	80/81	128	0	5/18	Construction	Standard plans will need adjustment to suit field conditions.
		2-I	79/80		0	5/19	Special Purpose	Contractor discontinued work.
	Lurasik	1-I	79/80	399	0	5/19	Construction	New construction will be necessary to replace erroneously constructed structures in the 1978/79 program.
	Tualeu	6-I	80/81	145	0	5/20	Certification	Not certifiable. System not functional
5-I		81/82		0	5/20	Construction	Weir crest elev. should be checked by level instrument.	

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

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

PROVINCE	SUBPROJECT			AREA (HA)		REVIEW STATUS ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG.		
West Sumatra	Bulakkan	2-N	82/83	391	391	Completed	Rehabilitation Additional drainage network Includes tertiary works
	Lubuk Buaya	1-I	82/83	1568	0	Completed	
	Lupak Sabahan	3-I	82/83	394	0	Completed	
	Punggung Kasiek	4-I	82/83	4243	0	Completed	
	Guguk Rantau	5-I	82/83	416	145	In progress	

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

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

PROVINCE	SUBPROJECT			AREA (HA)		TYPE OF CERTIFICATION ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
North Sumatra	Perbaungan	2-N	80/81	711	210	TSC and CCC	
West Sumatra	Punggung Kasiek	1-C	80/81	4243	893	TSC and CCC	
Riau	Sei Pangoan	2-N	79/80	265	265	TSC and CCC	
	Lubuk Ambacang	5-N 2-C	79/80 80/81	140	140 0	TSC and CCC TSC and CCC	
Bengkulu	Air Embong III	17	76/77	675	675	CCC and CSD	DPU & DIPERTA Tertiary works
	Air Selebang	10	76/77	1027	685	CCC and CSD	DPU Tertiary works
West Kalimantan	Pak Kadu	2-N	80/81	115	115	TSC and CCC	
	Seburuk	4-N	79/80	238	187	TSC and CCC	
Central Kalimantan	Tumpang Laung	1-N	80/81	521	469	TSC and CCC	
	Tanjung Java	2-N	80/81	392	392	TSC and CCC	
	Kuala Jelai	3-N	80/81	1257	250	TSC and CCC	Remote site, certification based on photographs.

^{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 OFFICE

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

- The Agricultural Coordinator coordinates all agricultural services provided and is the advisor to the DGFC Project Leader.
- 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 and operation of Water User Associations.
- 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.

From May 11 to 15, 1982, Mr. S.M. Lee, Land Development Engineer, with Mr. J.A. Erickson, Area Engineer, visited West Kalimantan Province for reviewing the on-farm works progress. Discussions were held both at the Provincial Public Works and DIPERTA offices. The Subproject Ser Lut (1300 ha) was inspected and the on-farm works construction was certified.

During this period, the Central Advisory Team spent considerable time in the preparation for the Fourth Joint Agricultural Conference held in Semarang, Central Java from May 27 to 29, 1982.

Mr. Lee completed the draft of a paper requested by the DAAD on "An Introduction to Project Management". Mr. J.Y. Hsu, WUA Advisor prepared a paper "The Strategy for Development of Irrigation Systems and Water Users Associations" as requested by the DAAD.

5.2 AGRICULTURAL ACTIVITIES - REGIONAL OFFICES

The MOA Training Courses, Subproject Inspections Subproject Design Program and subproject certifications completed during the reporting period by Regional Agricultural Advisory Teams are presented in Tables V-1, V-2 and V-3, and V-4.

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 (HPSIS) Program.
- The Action Research Program.
- The Monthly Monitoring Program.

A. Medan Regional Office (Aceh, North & West Sumatra and Riau) - On May 6, 1982, the Regional Agricultural Advisory Team met with the Chief, DIPERTA for North Sumatra Province and his staff for coordinating activities and for collecting data for the Tertiary Inventory and the Land Development Inventory.

From May 6 to 8, 1982, the Medan Regional Team met with Provincial Public Works staff for coordinating activities on the completion and certification of the On-Farm Works and Water User Associations in North Sumatra Province.

From May 10 to 15, 1982, the Medan Regional Team made a field trip to Riau Province for completing the MOA Questionnaire and certification of the WUA's for 7 subprojects and certification of On-Farm Works Construction for 2 sub-projects. Also, data was collected for the Tertiary Inventory and Land Development Inventory. Assistance was given the DIPERTA staff in completing the Monthly Monitoring for the Sederhana Program.

From May 26 to 30, 1982, the Regional Team attended and participated in the Joint Agricultural Conference in Semarang.

B. Palembang Regional Office (Jambi, South Sumatra and Bengkulu) - On May 3, 1982, Mr. R.P. Miras, Team Leader, met with Mr. M.J. Crawford, Provincial Irrigation Engineer to discuss certification of Subprojects Sekojo Ujung (1280 ha) and Rias (747 ha) for Tertiary Works and Water User Associations.

The Regional Agricultural Advisory Team and the Public Works Provincial Irrigation Engineer conducted a joint field inspection of Subproject Sekojo Ujung on May 6 & 7, 1982. They held a meeting at the site attended by 30 farmers to discuss the operation and maintenance of the tertiary irrigation system.

From May 10 to 15, 1982, Mr. C.E. Aksamit, Resident Manager and Ir. Afif from Jakarta met the Regional Agricultural Advisory Team and the Provincial Irrigation Engineer in Bengkulu Province. Subjects of discussion were the activities for the remainder of the present contract including inspection and certification of subprojects, updating of monthly monitoring, land inventory and the PAS under Sederhana Projects.

From May 18 to 22, 1982, the Regional Team visited proposed water management Subprojects Pilla Ranau (63 ha), Lubuk Tupak (104 ha) and Air Salak (130 ha) to inspect the progress of construction works and to gather data needed prior to HPSIS implementation.

From May 26 to 30, 1982, the Regional Agricultural Advisory Team attended the 4th Joint Agricultural Conference at Semarang, Central Java.

C. Telukbetung Regional Office (Lampung) - On May 1, 1982, the Telukbetung Regional Agricultural Advisory Team conferred with Mr. C.E. Aksamit, Resident Manager, about certification of the WUA's of all subprojects where the tertiary works will be completed in the 1982/83 program year. Also discussed were administrative matters and the remaining work until the completion of the Consultants contract. The HPSIS Subproject Way Awi II (326 ha) was visited and discussions were held with several farmers.

On May 6 and 7, 1982, Mr. R.B. Maza, Team Leader, and Mr. D.W. Holloway, Provincial Irrigation Engineer, conducted an O & M Inspection with Public Works and DIPERTA staff of the Subproject's Way Jagang (205 ha) and Way Langsep (80 ha). Discussions were held with the WUA's on repairs work required, water management and organization of the farmers.

On May 11 and 12, 1982, the Regional Team and Ir. Yusfian, Chief of Agricultural Areal Development for Lampung Province met with Mr. R.T. Edwards for discussions about the work program until the end of the present contract.

On May 24 and 25, 1982, the Regional Team made field visits to the Action Research Program sites for program evaluation. The Team made suggestions to the WUA officers regarding their program.

From May 26 to 30, 1982, the Regional Team attended the Joint Agricultural Conference in Semarang, Central Java.

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

- The work emphasis during this report period included certification of On-Farm Works Construction and preparation and attendance of the 4th Joint Agriculture Conference at Semarang, Central Java.

On May 18, 1982, the Bandung Regional Team travelled to Pandeglang District of West Java Province to assist with the selection of the new HPSIS site. Ir. Kusnadi A., Chief, Sub Directorate of Water Management, DAAD, and Dr. David McCauley of Ford Foundation were the selection team from the Central Office. Two Subprojects, Cisukma (111 ha) and Cikamal (226 ha) were visited as site candidates. The Subproject Cikamal was the unanimous choice of the Selection Team and will be staffed by the Community Organizer (C.O.) personnel as soon as their training program has been completed.

On May 15, 1982, the Regional Team met with Mr. T.H. Lee, Short-Term Water Management Specialist, and Mr. R.T. Edwards, Agricultural Coordinator, for reviewing the editing work of Mr. Lee's lecture notes entitled "Principles and Practices of Water Management for Irrigated Agriculture". These lecture notes are being edited by the Bandung Team for use by the DAAD staff.

During the Joint Agricultural Conference, Dr. McCauley met with the Bandung Regional Team for selecting two subprojects in West Java Province for use by LP3ES as C.O. training sites.

E. Manado Regional Office (North Sulawesi) - From May 5 to 8, 1982, the Regional Agricultural Advisory Team with Mr. F.B. Regonas, Provincial Irrigation Engineer made arrangement for the Annual O & M Inspection of Subproject Kaluntai (303 ha). The participants of the inspection included the Chief of BAPPEDA, the Chief of Public Works Irrigation Section and the Chief of Agricultural Service, all from Minahasa District. Also the Village Chief and the WUA officials joined the inspection. Public Works officials agreed to arrange a budget to support the cost of maintenance. The official from the District Office gave instructions to the Village Chief regarding water management and operations and maintenance problems.

On May 5 and 17, 1982, the Regional Team made arrangements with the WUA of the HPSIS Subproject Pentu (228 ha) to complete the tertiary canal construction in block I by "gotong royong" (mutual assistance).

On May 18 and 19, 1982, the Regional Team and Mr. Regonas assisted with the Annual O & M Inspection of the Subproject Yantaton (369 ha) in Bolaang Mongondow District. District government officials, village chief's and WUA Official participated in the inspection.

During this reporting period, Mr. K.F. Jenq, Team Leader prepared a special report on land development at the request of the DIPERTA Chief. The Regional Team assisted the DIPERTA staff with completion of the Monthly Monitoring and the MOA Questionnaires.

The Regional Team attended the Joint Agricultural Conference in Semarang, Central Java from May 26 to 30, 1982.

F. Ujung Pandang Regional Office (Central, South and Southeast Sulawesi and Maluku) - During this reporting period the Regional Team concentrated on completing the certifications of the WUA in Southeast Sulawesi Province, inspecting Land Development Construction in South Sulawesi Province and preparations for the Fourth Joint Agricultural Conference.

From May 9 to 12, 1982, the Regional Team made field visits to two UPP offices in South Sulawesi for inspecting the land development construction at 3 sub-projects.

From May 6 to 15, 1982, Mr. S.D. Scully, Team Leader, and Ir. Sidharto, Agricultural Engineer, made field visits to 8 subprojects in Southeast Sulawesi Province. After discussions with District DIPERTA Chiefs, Village Officials and WUA Officials, 10 MOA Questionnaires were completed and 6 WUAs will have reached certifiable standards by the end of June.

On May 13 and 15, 1982, Mr. C.C. Tai, Agricultural Engineer, and Ir. Prijanto, Agriculturist, attended the South Sulawesi Province DIPERTA working meeting to discuss the scope of the department's work with the 1982/83 budget.

The Regional Team and counterparts from the Ujung Pandang Regional DIPERTA Offices attended the Fourth Joint Agricultural Conference held at Semarang from May 26 to 30, 1982.

G. Mataram Regional Office (Bali, West and East Nusa Tenggara) - On May 6, 1982, the Regional Agricultural Advisory Team attended a meeting at Provincial Public Works, held by Ir. H. Mashun, Chief, Irrigation Division, PPW, NTB, regarding the performance of Annual O & M inspections. The participants included Provincial and District Public Works and Agricultural Service Staffs and the Provincial Irrigation Engineer, Mr. L.P. Lim.

From May 7 to 11, 1982, the Regional Team reviewed 8 subproject designs of Land Development Works completed by DIPERTA, NTB.

On May 12, 1982 The Regional Team accompanied NTB District Agricultural Service staff on a field inspection of Subproject Mencongah (322 ha). The subproject tertiary works construction was recently completed by Provincial Public Works and certified by the Provincial Irrigation Engineer.

On May 13, 1982, the Regional Advisory Team presented a practical demonstration on Land Development techniques of Survey and Design and Construction for the Lombok UPP and DIPERTA staffs during a field inspection trip for upgrading the WUA of Subproject Lendang Jurang (185 ha), NTB Province.

From May 17 to 19, 1982, the Regional Advisory Team visited Sumbawa DIPERTA, NTB, for providing assistance with their Land Development program. The Regional Team presented lectures on Water Measuring Techniques, Land Development, Design Reviews and Solving Rice Field Forming Problems to the Sumbawa UPP I and UPP II staffs.

From May 20 to 25, 1982, the Regional Advisory Team prepared proposals for Improved Methods of Developing the WUA in Indonesia and collecting data for presentation at the 4th Joint Agricultural Conference in Semarang, which they attended from May 26 to 30, 1982.

On May 31, 1982, Mr. H.Y. Huang, Team Leader submitted the proposed c.o. training schedule to Ir. K. Putra, Chief, Land Development Division, DIPERTA, NTB.

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

COURSE TITLE	COURSE DATE	COURSE LOCATION (District and Province)	PARTICIPANTS		COMMENTS
			NO.	CLASSIFICATION	
Upgrading UPP Staff	May 13, 1982	Lombok, Nusa Tenggara Barat	6 2	UPP Staff DIPERTA Staff	Lecture by H.Y. Huang
Upgrading UPP Staff	May 18, 1982	Sumbawa, Nusa Tenggara Barat (UPP II office)	14	UPP Staff	Lecture by Regional Team
Upgrading UPP Staff	May 19, 1982	Sumbawa, Nusa Tenggara Barat (UPP I office)	8	UPP Staff	Lecture by Regional Team

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
Riau	Tampan I & II	13	76/77	615	NA	5/10	Certification	WUA and on-Farm works. Not certifiable. Very few farmers and paddy not developed
	Salo	1	76/77	265	164	5/11	Certification	On-Farm works. Certifiable.
	Muara Jalai	7	76/77	400	250	5/11	Certification	WUA. Certifiable.
	Sei Pangoan	2	79/80	265	NA	5/12	Certification	WUA. Not certifiable.
	Kebun Durian	3	76/77	194	NA	5/12	Certification	WUA and on-Farm works. Not certifiable. Paddy not developed.
	Petapahan	4	79/80	180	180	5/13	Certification	WUA. Certifiable.
	Lubuk Ambacang	5	79/80	140	NA	5/13	Certification	WUA. Not certifiable.
	Barabah	20	76/77	300	NA	5/14	Certification	WUA and on-Farm works. Not certifiable. Paddy not developed. Very few farmers.
South Sumatra	Sekojo 'Ijung	13	76/77	1280	156	5/7	Certification	WUA. Certification.
	Pilla Ranau	9	76/77	63	43	5/19	Special Purpose	Water Management
	Lubuk Tupak	7	76/77	84	104	5/20	Special Purpose	HPSIS
	Air Salak	2	75/76	130	130	5/21	Special Purpose	HPSIS
Bengkulu	Air Rindu Hati	10	75/76	156	-	5/11	Certification	WUA and MOA On-Farm works. Not certifiable.
	Air Putih Cawang	3	74/75	279	56	5/11	Certification	WUA. Certifiable.
	Air Embong III	17	76/77	675	57	5/12	Certification	On-Farm works. Certifiable.

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

^{2/} Report On-Farm Works, Water User Association(WUA), Action Research Program (ARP), HPSIS Program or Land Development (WUA)

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
Bengkulu (Cont'd)	Air Gegasan	4	74/75	105	17	5/14	Certification	WUA and on-farm works. Certifiable.
	Air Petai	9	76/77	127	NA	5/13	Certification	WUA and on-farm works. Not certifiable.
	Air Kemumu	2	76/77	302	58	5/15	Certification	WUA and on-farm works. Certifiable.
Lampung	Way Jagang	3	76/77	205	100	5/6	Special Purpose	O & M Inspection with DPU
	Way Langsep	-	74/75	80	80	5/7	Special Purpose	O & M Inspection with DPU
	Way Sabu Kenanga	9	76/77	112	100	5/20	Special Purpose	ARP Subproject
	Way Tipo Lunik	5	76/77	390	300	5/24	Special Purpose	ARP Subproject
West Java	Cikamal	9	79/80	226	226	5/19	Special Purpose	HPSIS selection
	Cisukma	-	74/75	111	111	5/14	Special Purpose	HPSIS selection
Central Java	Watu Jaran	-	74/75	275	275	5/27	Special Purpose	Land development inspection
West Kalimantan	Sei Lui	1	76/77	400	268	5/12	Certification	On-farm Works, Certifiable
North Sulawesi	Pentu	9	77/78	231	50	5/58 5/17	Special Purpose	HPSIS
	Ranotuana	5	79/80	188	200	5/58 5/17	Special Purpose	WUA Formation

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

^{2/} Report On-farm Works, Water User Association(WUA), Action Research Program (ARP), HPSIS Program or Land Development (LDP)

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
North Sulawesi (Cont'd)	Motondong	7	79/80	135	40	5/6& 5/19	Special Purpose	WUA Formation
	Kaluntai	10	77/78	303	70	5/6& 5/18	Special Purpose	Annual O & M Inspection
	Yantaton	6	77/78	369	350	5/7& 5/19	Special Purpose	Annual O & M Inspection
South Sulawesi	Kariu I	9	76/77	432	322	5/10	Construction	Land development
	Panaikang II	11	76/77	369	226	5/10	Construction	Land development
	Pamukulu *	-	-	-	-	5/12	Construction	Land development
Southeast Sulawesi	Wonco I	1	79/80	840	160	5/8	Certification	WUA. Certifiable
	Wonco II	3	80/81	278	80	5/8	Certification	WUA. Certifiable
	Kolasa	3	79/80	474	10	5/10	Certification	WUA. Certifiable
	Roraya I	1	76/77	2381	0	5/11	Certification	WUA. Not certifiable
	Mowilla II	6	79/80	552	0	5/12	Certification	WUA. Not certifiable
	Loea	4	79/80	322	70	5/13	Certification	WUA. Certifiable
	Konaweha	7	79/80	415	147	5/14	Certification	WUA. Certifiable
	Tamboli	3	78/79	1398	293	5/14	Certification	WUA. Left side certifiable (689 ha)
West Nusa Tenggara	Mencongah	1	79/80	322	267	5/12	Certification	WUA. Certifiable
	Lendang Jurang	7	77/78	185	128	5/13	Special Purpose	WUA upgrading

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

^{2/} Report On-Farm Works, Water User Association (WUA), Action Research Program (ARP), HPSIS Program or Land Development (HPSIS)

* Not Sederhana

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
West Nusa Tenggara (Cont'd)	Rempek	3	79/80	617	113	5/13	Special Purpose	Land development, Paddy field forming
	Bagik Kenbaar *	-	80/81	NA	58	5/13	Construction	Land development

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

^{2/} Report On-Farm Works, Water User Association (WUA), Action Research Program (ARP), HPSIS Program or Land Development (LDP)

* Not Sederhana

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

PROVINCE	SUBPROJECT			AREA (HA)		REVIEW STATUS ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG.		
North Sulawesi	Tanoyan	7	76/77	700	471	Completed	
	Mopuya	1	77/78	419	26	Completed	
	Mopugad	2	77/78	741	441	Completed	
	Paniki Buha	5	77/78	381	25	Completed	
	Karowa	7	77/78	261	190	Completed	
	Pentu	9	77/78	231	50	Completed	
	Kaluntai	10	77/78	303	70	Completed	
	Likupang Oki	11	77/78	246	NA	Completed	
	Meayat	12	76/77	1959	1418	Completed	
	Tabulo	1	79/80	1080	200	Completed	
	Bongotua	2	79/80	442	300	Completed	
	Tadoy	6	79/80	282	232	Completed	
	Mopolo	8	79/80	178	15	Completed	
	Moyondok Hulu	9	79/80	84	69	Completed	
	Karangetan	1	80/81	323	NA	Completed	

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

TABLE 7 - 4
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT CERTIFICATIONS

MAY, 1982

PROVINCE	SUB-PROJECT			AREA (HA)		TYPE OF ^{1/} CERTIFICATION	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
North Sumatra	Semangat Baris I	1	79/80	280	280	WUA	
	Siharanjan	2	79/80	128	128	WUA	
West Sumatra	Lubuk Sarik	4	76/77	926	926	CCC & WUA	
	Ampang Tulak	7	79/80	965	965	WUA	
	Lubuk Buaya	6	79/80	1568	1568	WUA	
Riau	Salo	1	76/77	265	164	CCC	
	Muara Jelai	7	76/77	400	400	WUA	
	Pelapahan	4	79/80	180	180	WUA	
South Sumatra	Megang Tikip	3	75/76	1077	645	WUA	
	Sekojo Ujung	13	76/77	1280	579	WUA	
	Rias	2	79/80	747	676	WUA	
Bengkulu	Air Kemumu II	7	75/76	116	116	CSD	
	Air Kemumu	2	76/77	302	124	CCC	
					302	WUA	
	Air Gegasan	4	74/75	105	40	CCC	
					105	WUA	
	Air Putih Cawang	3	74/75	279	287	WUA	
	Air Rindu Hati	10	75/76	156	156	WUA	
Air Kotok Kota Agung	1	76/77	98	98	WUA		
	Air Susup II	3	76/77	58	58	WUA	

^{1/} Report CSD for Completion of Survey and Design, WUA for Water User's Association or CCC for Completion of Construction Certification.

TABLE V - 4
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT CERTIFICATIONS
 MAY, 1982

PROVINCE	SUB-PROJECT			AREA (HA)		TYPE OF CERTIFICATION ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
Bengkulu (Cont'd)	Air Napal	19	76/77	210	210	WUA	
West Java	Ciderum	6	76/77	150	150	WUA	
					141	CCC	
	Cimarayana	5	77/78	269	316	CCC & WUA	
West Kalimantan	Sei Lui	1	76/77	400	268	CCC	
Southeast Sulawesi	Landono	1	78/79	842	844	WUA	
	Tamboli	2	78/79	1398	689	WUA	Left side only.
	Wonco I	1	79/80	840	900	WUA	
	Kolasa	3	79/80	474	474	WUA	
	Loea	4	79/80	322	322	WUA	
	Konaweha	7	79/80	415	415	WUA	
	Wonco II	4	80/81	278	278	WUA	
West Nusa Tenggara	Mencongah	1	79/80	322	322	WUA	

^{1/} Report CSD for Completion of Survey and Design, WUA for Water User's Association or CCC for Completion of Construction Certification.

CONSULTANTS PERSONNEL IN INDONESIA

<u>Name</u>	<u>Classification</u>	<u>Location</u>	<u>Arrival Date</u>	<u>Departure Date</u>
<u>EXPATRIATE PERSONNEL - IECJ</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 9 Feb 82	25 Oct 80 7 Apr 81 9 Oct 81 17 Feb 82
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
O. Hougan	Chief, Water Resources	Jakarta	9 Feb 82	18 Feb 82

<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	

Short-Term Personnel

T.H. Lee	Water Manag. Specialist	Jakarta	16 Jun 81	31 Dec 81
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INDONESIAN PERSONNEL - SANGKURIANGTechnical Personnel

Ir. A. Afif	Irrig. Design Engr.	Jakarta	10 Jul 80	
Ir. H. Gunawan	Irrig. Engineer	Jakarta	10 Jul 80	15 May 82
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	20 Oct 80	
Mr. Wahyu A.	Irrig. Engineer	Jakarta	5 Jan 81	31 Mar 82
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>
<u>INDONESIAN PERSONNEL - SANGKURIANG (cont'd)</u>				
<u>Logistic Support Personnel</u>				
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
Afriarningsih	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. H.F. Siwy	Agricultural Engr.	Manado	21 Nov 80	
Ir. M. Noer	Agricultural Engr.	Palembang	5 Nov 80	
Ir. Sidharto	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 | Idung A. Bachri 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. Heru Dewanto | - 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. Syakhrum Yunan - Administrator of Foreign Aid
 Ir. Tangkas P. - Consultants' Counterpart

PROVINCIAL AGRICULTURAL SERVICES - REGIONAL COUNTERPARTS

- | | |
|---------------------|-----------------|
| Ir. S.T.M. Sihaloho | - Medan |
| Ir. A.R. Ridwan | - Palembang |
| Ir. Sawadi Ijon | - Telukbetung |
| Ir. Sulaeman H. | - Bandung |
| Ir. Slamet Sandjito | - Mataram |
| Ir. Hengkon | - Manado |
| Ir. D. Parrusengi | - Ujung Pandang |
| Ir. Syahrudin Saleh | - Ujung Pandang |

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

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	318.74	-	3.05	0.05	3.49	14.63	325.28	-	-	156.22
Feb 82	16.61	335.35	-	3.05	0.65	4.14	17.26	342.54	-	-	138.96
Mar 82	17.20	352.55	-	3.05	0.07	4.21	17.27	359.81	-	-	121.69
Apr 82	17.70	370.25	-	3.05	0.12	4.33	17.82	377.63	-	-	103.87
May 82	18.00	388.25	-	3.05	-	4.33	18.00	395.63	-	-	85.87
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.

SEDERHANA IRRIGATION PROJECT II ^{1/}
 MAX-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	6.94	122.73	-	6.50	0.52	4.30	7.46	133.53	-	-	55.47
Feb 82	7.00	129.73	-	6.50	0.21	4.51	7.21	140.74	-	-	48.26
Mar 82	7.00	136.73	-	6.50	0.21	4.72	7.21	147.95	-	-	41.05
Apr 82	7.00	143.73	-	6.50	0.21	4.93	7.21	155.16	-	-	33.84
May 82	7.00	150.73	-	6.50	0.21	5.14	7.21	162.37	-	-	26.63
Jun 82											
Jul 82											
CONTRACT ALLOWANCES	----	164.00	----	25.00	---	----	----	189.00	-	-	-----

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

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	-	-	208.66
Aug 80	7.06	10.90	-	-	-	-	7.06	10.90	-	-	201.60
Sep 80	9.00	19.90	-	-	-	-	9.00	19.90	-	-	192.60
Oct 80	9.10	29.00	-	-	-	-	9.10	29.90	-	-	182.60
Nov 80	9.87	38.87	-	-	-	-	9.87	38.87	-	-	173.63
Dec 80	9.94	48.81	-	-	-	-	9.94	48.81	-	-	163.69
Jan 81	9.87	58.68	-	-	-	-	9.87	58.68	-	-	153.82
Feb 81	10.00	68.68	-	-	-	-	10.00	68.68	-	-	143.82
Mar 81	10.00	78.68	-	-	-	-	10.00	78.68	-	-	133.82
Apr 81	10.00	88.68	-	-	-	-	10.00	88.68	-	-	123.82
May 81	10.00	98.68	-	-	-	-	10.00	98.68	-	-	113.82
Jun 81	9.90	108.58	-	-	-	-	9.90	108.58	-	-	103.92
Jul 81	8.29	116.87	-	-	-	-	8.29	116.87	-	-	95.63
Aug 81	8.94	125.81	-	-	-	-	8.94	125.81	-	-	86.69
Sep 81	9.00	134.81	-	-	-	-	9.00	134.81	-	-	77.69
Oct 81	9.00	143.81	-	-	-	-	9.00	143.81	-	-	68.69
Nov 81	9.00	152.81	-	-	-	-	9.00	152.81	-	-	59.69
Dec 81	9.00	161.81	-	-	-	-	9.00	161.81	-	-	50.69
Jan 82	9.00	170.81	-	-	-	-	9.00	170.81	-	-	41.69
Feb 82	9.00	179.81	-	-	-	-	9.00	179.81	-	-	32.69
Mar 82	9.00	188.81	-	-	-	-	9.00	188.81	-	-	23.69
Apr 82	8.00	196.81	-	-	-	-	8.00	196.81	-	-	15.69
May 82	7.48	204.29	-	-	-	-	7.48	204.29	-	-	8.21
Jun 82											
Jul 82											
CONTRACT ALLOWANCES	---	212.50	---	---	---	---	---	212.50	---	---	---

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	MONTH TOTAL	TOTAL TO DATE	MONTH TOTAL	TOTAL TO DATE	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	REINSTATED (+)	
Jul 80	6.42	6.42	-	-	-	-	6.42	6.42	-	-	221.58
Aug 80	10.00	16.42	-	-	-	-	10.00	16.42	-	-	211.58
Sep 80	10.00	26.42	-	-	-	-	10.00	26.42	-	-	201.58
Oct 80	10.90	37.32	-	-	-	-	10.90	37.32	-	-	190.68
Nov 80	11.00	48.32	-	-	-	-	11.00	48.32	-	-	179.68
Dec 80	11.00	59.32	-	-	-	-	11.00	59.32	-	-	168.68
Jan 81	10.77	70.09	-	-	-	-	10.77	70.09	-	-	157.91
Feb 81	10.00	80.09	-	-	-	-	10.00	80.09	-	-	147.91
Mar 81	9.35	89.44	-	-	-	-	9.35	89.44	-	-	138.56
Apr 81	10.00	99.44	-	-	-	-	10.00	99.44	-	-	128.56
May 81	9.52	108.96	-	-	-	-	9.52	108.96	-	-	119.04
Jun 81	10.47	119.43	-	-	-	-	10.47	119.43	-	-	108.57
Jul 81	10.55	129.98	-	-	-	-	10.55	129.98	-	-	98.02
Aug 81	9.81	139.79	-	-	-	-	9.81	139.79	-	-	88.21
Sep 81	8.37	148.16	-	-	-	-	8.37	148.16	-	-	79.84
Oct 81	9.26	157.42	-	-	-	-	9.26	157.42	-	-	70.58
Nov 81	9.90	167.32	-	-	-	-	9.90	167.32	-	-	60.68
Dec 81	9.58	176.90	-	-	-	-	9.58	176.90	-	-	51.10
Jan 82	9.03	185.93	-	-	-	-	9.03	185.93	-	-	42.17
Feb 82	9.89	195.82	-	-	-	-	9.89	195.82	-	-	32.18
Mar 82	10.00	205.82	-	-	-	-	10.00	205.82	-	-	22.18
Apr 82	10.00	215.82	-	-	-	-	10.00	215.82	-	-	12.18
May 82	9.81	225.63	-	-	-	-	9.81	225.63	-	-	2.37
Jun 82											
Jul 82											
CONTRACT ALLOWANCES	---	228.00 ^{2/}	---	---	---	---	---	228.00 ^{2/}	---	---	---

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

^{2/} Includes Administrative Officer

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 (+)							
Ju1 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
Ju1 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	5.00	74.07	-	-	-	-	5.00	74.07	-	-	28.43
Feb 82	5.00	79.07	-	-	-	-	5.00	79.07	-	-	23.43
Mar 82	5.00	84.07	-	-	-	-	5.00	84.07	-	-	18.43
Apr 82	5.00	89.07	-	-	-	-	5.00	89.07	-	-	13.43
May 82	5.00	94.07	-	-	-	-	5.00	94.07	-	-	8.43
Jun 82											
Ju1 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	\$ 426,051.47	
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	\$ 213,138.98	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 ^{1/2}	11 Dec 81	\$ 72,653.89	
18.	Nov. 1981	13 Feb 82	\$ 147,253.34	25 Feb 82	\$ 146,039.14	
19.	Dec. 1981	15 Feb 82	\$ 206,175.98	12 Mar 82	\$ 204,177.68	
20.	Jan. 1982	5 Mar 82	\$ 210,279.39	26 Apr 82	\$ 203,499.49	
21.	Feb. 1982	5 Apr 82	\$ 224,291.37	19 May 82	\$ 206,976.90	
22.	Mar. 1982	29 Apr 82	\$ 208,030.69	24 May 82	\$ 204,827.08	

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. 4,092,935	25 Jan. 82	Rp. 4,092,935	
17.	Nov. 1981	30 Dec. 81	Rp. 3,569,440	25 Jan. 82	Rp. 3,569,440	
18.	Dec. 1981	23 Feb. 82	Rp. 3,167,615	15 Mar. 82	Rp. 3,167,615	
19.	Jan. 1982	19 Mar. 82	Rp. 2,102,405	15 May. 82	Rp. 2,102,405	
20.	Feb. 1982	29 Mar. 82	Rp. 2,600,145	15 May. 82	Rp. 2,600,145	
21.	Mar. 1982	27 Apr. 82	Rp. 3,027,418	15 May. 82	Rp. 3,027,418	
22.	Apr. 1982	27 May. 82	Rp. 2,668,265			

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			
18.	Dec. 1981	23 Feb. 82	Rp. 5,029,170			
19.	Jan. 1982	19 Mar. 82	Rp. 3,460,190			
20.	Feb. 1982	29 Mar. 82	Rp. 4,132,705			
21.	Mar. 1982	27 Apr. 82	Rp. 5,951,180			
22.	Apr. 1982	27 May. 82	Rp. 3,743,815			