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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. 21  
FOR PERIOD  
MARCH 1, 1982 - MARCH 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 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 twenty-first Monthly Report is submitted in accordance with Appendix A, Article K, Subarticle a of the Contract. It covers major events from March 1 through March 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 Padang, West Sumatra; Palembang, South Sumatra; Telukbetung, Lampung; Bandung, West Java; Semarang, Central Java; and Ujung Pandang, South Sulawesi.

The Provincial Irrigation Engineers and Area Engineers performed subproject inspections in Aceh, North Sumatra, West Sumatra, South Sumatra, Bengkulu,

Lampung, West Java, Central Java, North Sulawesi, Southeast Sulawesi, and West Nusa Tenggara; design reviews in Aceh, North Sumatra, Lampung, West Java, and West Nusa Tenggara; and certifications in Aceh, North Sumatra, West Sumatra, Lampung, Bengkulu, West Java, Central Java, Southeast Sulawesi, South Sulawesi and West Nusa Tenggara.

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

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.

The Land Development Inventory was updated with information from the provinces through February 28, 1982. Copies were provided to DGWRD, DGFC and USAID on March 12, 1982.

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 report on non-certifiable subprojects was prepared.

### 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.

Mr. J.D. Sabiniano, Irrigation Design Engineer (Surveys) returned to work on March 15, 1982, following medical leave since December 16, 1981.

Mr. Wahyu A., Irrigation Engineer resigned his position and departed on March 31, 1982. Mr. Wahyu will not be replaced due to the short time remaining in the contract and his duties will be performed by Ir. Irdam Adil, Irrigation Design Engineer.

#### 3.1 SUPPORT ACTIVITIES

From March 4 to 6, 1982, Mr. R.E. Dixon, Area Engineer and Mr. Wahyu A., Irrigation Engineer, visited the Provincial Public Works Office in Bandung, West Java. Discussions were held with the DPU Sederhana Staff and the Agricultural Regional Team regarding potential subprojects to be considered for inclusion in the High Performance Sederhana Irrigation System (HPSIS) Program.

From March 8 to 13, 1982, Mr. J.Y. Hsu, Water User Association (WUA) Advisor, assisted the Telukbetung Agricultural Advisory Team with their program for upgrading the WUA, water management practices and water measurement devices. Three subprojects, Way Bulok Sukamara (253 ha), Way Gading (272 ha) and Way Lunik Panengahan (353 ha) were visited in Lampung Province.

On March 11 and 12, 1982, Mr. C.E. Aksamit, Resident Manager, Mr. J.A. Erickson, Area Engineer and Mr. H. Cnawan, Irrigation Engineer visited Palembang, South Sumatra Province. Meetings were held with the Provincial Irrigation Engineer, the Regional Agricultural Team and staff of the Provincial Agricultural Services. Major topics of discussion were monitoring and certifi-

cation and the HPSIS Program. Emphasis was placed on scheduling the certification work for completion by June 20, 1982, coordination of the HPSIS Subprojects with Public Works survey and design contractors, and joint team efforts to minimize duplication of trips during the certification program.

From March 19 to 21, 1982, Mr. Hsu made a trip to West Java Province to assist the Pandeglang District Agricultural Service with their special program for improving the on-farm system for the Subproject Cukang Sadang (237 ha). Technical assistance for this special program is provided by the Bandung Agricultural Advisory Team.

From March 25 to 27, 1982, Mr. J.A. Erickson, Area Engineer visited Padang, West Sumatra. Meetings were held with the Provincial Irrigation Engineer, the Regional Agricultural Team and Provincial Public Works staff. Monitoring and certification programs were discussed. Emphasis was given to establishing a joint effort to complete outstanding certifications by June 20, 1982.

From March 22 to 26, 1982, Mr. R.E. Dixon, Area Engineer, Mr. Wahyu, Irrigation Engineer and Mr. M.C. Christensen, Provincial Irrigation Engineer, visited the Provincial Public Works office in Semarang, Central Java. Four subprojects were inspected and three were found to be certifiable. During this period, the group met with the Provincial DPU Chief of Water Resources and discussed the subproject inspection results, revised monitoring forms and upgrading of subprojects to Technical classification. Subproject major works and tertiary programs for the 1982/83 Program Year were reviewed. On March 24, 1982, a meeting was held with the Provincial Chief of Crop Protection and Chief of Water and Soil Conservation regarding production data for subprojects under consideration for upgrading to Technical classification.

On March 31, 1982, Mr. C.L. Aksmit was in Ujung Pandang to review the progress of the work of the Regional Agricultural Team and Provincial Irrigation Engineer. He returned to Jakarta on April 2, 1982.

### 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	
	DGWRD	DGFC	DGWRD	DGFC	DGWRD	DGFC
1976/77	0	6	0	6	0	2
1977/78	1	7	1	6	1	2
1978/79	12	7	12	7	5	3
1979/80	22	13	22	13	15	4
1980/81	23	10	23	10	16	3
1981/82	23	23	23	23	17	6

The status of the February 28 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.

Work continued on the preparation of a manual for monitoring MOA activities in the Sederhana II Program and revisions to the monthly monitoring forms.

### 3.3 MEETINGS

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

- On March 1, 1982, Mr. C.E. Aksamit, Resident Manager and Mr. R.T. Edwards, Agricultural Coordinator attended a meeting on the High Performance Sederhana Irrigation Systems (HPSIS) program held jointly by the Directorate of Agricultural Area Development (DAAD), U.S. Agency for International Development (USAID) and Ford Foundation. The meeting primarily concerned the scheduling of team visits to the 7 concentration provinces for selection of subprojects for the HPSIS program.
- On March 4 and 18, 1982, Mr. S.M. Lee, Land Development Engineer and Mr. Edwards joined meetings on the Land Development (UPP) program held by Mr. Utje S.R.B., Chief, Sub-directorate of Land Development, DAAD, and Sajogo, Professor of Rural Sociology, Bogor Agricultural Institute (IPB). The meetings were attended by DAAD and IPB Staff. The principal subject for discussion was the use of "Process Documentation" for the UPP program. Dr. Michael Morfit, USAID Consultant, participated in the meeting held on March 18.
- On March 5, 1982, Messrs. Aksamit, Edwards and Lee attended a meeting on the UPP program held by the DAAD staff and USAID officials Messrs. C.R. Rheingans and W.J. Ackerman.
- On March 12, 1982, Mr. R.E. Dixon, Area Engineer, met with Mr. W.J. Ackerman, USAID Sederhana Project Officer, regarding subproject certification and travel restrictions during the election campaign period.
- On March 16, 1982, a meeting was held at the DGWRD offices in Jakarta on the monitoring forms for survey and design and construction, attended by the DGWRD Section Chiefs and the Consultants. Agreement was reached on revisions to the monitoring forms to better serve the needs of the DGWRD Section Chiefs.
- On March 16 and 27, 1982, Mr. Edwards joined meetings held by the DAAD staff and Dr. Mark Poffenberger, USAID Consultant, concerning a classification system for Sederhana subprojects.

- On March 17, 1982, Messrs. Aksamit and Edwards attended a meeting held by the DAAD staff with Mr. W.J. Ackerman, USAID Sederhana Project Officer, and his staff. The selection team reported on their visits to the provinces for selecting the 7 new subprojects for the HPSIS program.
- On March 23 and 25, 1982, Mr. C.E. Aksamit, Resident Manager, met with officials of DGWRD on the Consultants work program and other matters concerning the project.
- On March 24 and 30, 1982, Mr. C.E. Aksamit met with officials of DGFC on the Consultants Work Program, including HPSIS, and other matters concerning further development and plans for the HPSIS program.
- On March 26, 1982, Mr. Edwards attended a meeting held by USAID officials, chaired by Mr. Ackerman, with DAAD staff and a Ford Foundation representative concerning further development and plans for the HPSIS program.
- On March 30, 1982, Mr. R.E. Dixon met with Drs. Pintor Tambunan, Chief of Sub-directorate of P4 Planning and Programing to review the 1982/83 program for submitting and processing Sederhana Subproject Selection Questionnaires.

TABLE III - 1  
 STATUS OF DGWRD MONITORING PROGRAM  
 MARCH, 1982

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

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

TABLE III - 2  
STATUS OF DGFC MONITORING PROGRAM  
MARCH, 1982

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

\* 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 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 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.

Mr. R.E. Dixon reviewed the weir design for subproject Teritip in East Kalimantan. The weir is being modified from masonry to a gabion structure due to foundation conditions.

B. Survey and Mapping Activities - On February 15, 1982, Mr. J.D. Sabiniano, Irrigation Design Engineer (Surveys) returned to work from confinement to quarters upon doctor's orders. For the remainder of February, he assisted with administrative matters and worked on a specification for plane tables and alidades to be purchased by the DGWRD for the Sederhana Project.

## 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 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, including the Medan office for February and March.

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, development of O & M programs, annual O & M inspections, coordination with agricultural programs and special design and construction problems.

On January 29, a meeting was held in DPU Sederhana Office regarding the submittal of proposals by contractors for the completion of the weir at Subproject Gido Zebua in Nias, North Sumatra.

From February 15 to 18, Mr. O Hougen, Chief of Water Resources, IECO, San Francisco, and Mr. J.A. Erickson, Area Engineer, were in Medan, North Sumatra to review the program activities in Medan. On February 16, they met the Chief of Public Works, Chief of Water Resources, Acting Chief of Irrigation and the Sederhana Engineer and discussed the activities of the Sederhana Project. Meetings were also held with the Agriculture Services staff and the Regional Agricultural Team. From Feb. 16 to 17, Mr. Hougen and Mr. Erickson accompanied by Mr. Lizardo, and Ir. B. Panjaitan, Chief of the Sederhana Office Construction group visited 6 Sederhana Subproject in Sections Deli Serdang, Simalungun and Tapanuli Utara.

On February 18, Mr. J.A. Erickson, Area Engineer, and Mr. C.S.F. Lizardo, Provincial Irrigation Engineer, met Mr. C.W. Shih, Agriculture Engineer, Ir. Sihaloho, Agricultural Services Counterpart, Mr. Tambunan, Chief of Sederhana Project Activities and his staff. The coordination of activities concerning

operation and maintenance and the HPSIS Program were discussed. Also discussed were certifications of Water Users Associations and construction completion of tertiary works.

On February 26, Mr. C.S.F. Lizardo, Mr. A. Tjahya BIE and Ir. D. Panjaitan of DPU Sederhana Office met the DPU Section Office staff of Simalungun and discussed operation and maintenance of completed subprojects.

On March 4, Mr. C.S.F. Lizardo, Consultant, and Mr. A. Tjahya BIE of DPU Sederhana Office met the Chief of Section Deli Serdang and discussed operation and maintenance problems of Subproject Pekan Dolok.

The Provincial Irrigation Engineer, Regional Agricultural Team, staff of Provincial Agricultural Services and the USAID Evaluation Team from Jakarta cooperated in selection of subprojects for the HPSIS Program in North Sumatra. Field inspection trips were made from March 8 to 10 to Subproject Bandar Sidoras (1808 ha), Kelahun Pinang (530 ha) and Lau Simeme (170 ha). Further meetings were held regarding subproject evaluation on March 6 and 9 in DPU Sederhana Office and on March 9 and 12 in the Bappeda Office of North Sumatra. The team included Dr. M. Poffenberger, Mr. M. Morfit and Dr. Jan Gerards of USAID and were accompanied by Mr. S. Yunan, Administrator of Foreign Aid, DGFC, Jakarta.

On March 13, a meeting was held in the DPU Sederhana Office regarding the classification of irrigation systems. Sederhana subprojects in North Sumatra were classified as good, fair or poor. These classifications were primarily determined from the condition of the subproject physical works and on the strength of the Water User Association. Present at this meeting were Dr. M. Poffenberger of USAID, Mr. S. Yunan, DGFC, the Provincial Irrigation Engineer, the Regional Agricultural Team and concerned staff from Provincial Public Works and Provincial Agricultural Services.

From March 15 to 24, Mr. C.S.F. Lizardo visited the DPU Sederhana Office in Aceh and inspected several subprojects for special problems, design review, construction inspections and certifications. Discussions were held with the Chief of Water Resources and Sederhana Engineer concerning the progress of the programs.

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, checking of survey and mapping, construction problems, upgrading of construction supervision and inspection, development of O & M programs, presentation of the design guidelines and working papers, upgrading the monitoring program, preparation for tendering of construction and survey and design contracts and upgrading of the Sederhana Staff.

On March 2, 1982, a meeting was held at the DPU Office in West Sumatra attended by the Chief of Irrigation and his staff, the Provincial Irrigation Engineer, Mr. Supangat, Director of BP. Tritunggal, Bandung and his staff. The standard survey and design specifications and the requirements for effective systems of checking by DPU were discussed.

Between March 6 and 16, 1982, Mr. Lizardo together with the Sederhana Staff visited DPU Section Office in Kabupaten Solok and Pasaman. The program for upgrading Sederhana Subprojects to Technical Classification, the Land Development Program and Status of Irrigation Systems were discussed. O & M activities, construction progress, water users organization and the certification program were discussed in detail.

From March 9 to 12, 1982, Mr. Lizardo visited the DPU Section Office in Kabupaten Pesisir Selatan and met Mr. Asmiran, Chief of Section and his staff. The O & M activities on Subproject Talang Kemuning Jaya (985 ha) and special efforts to strengthen the water users organization were the major items of discussion. The O & M Section was urged to implement repairs so that the tertiary works for the entire subproject area can be made functional and certifiable.

From March 24 to 27, 1982, the Regional Agricultural Team and Mr. J.A. Erickson, Area Engineer, visited West Sumatra Province. Discussions were held concerning certification programs on major works and tertiary works, certification of Water Users Associations, the selection of candidates for the High Performance Sederhana Irrigation System Program, annual O & M inspections, monitoring program revisions and administrative matters. Inspection schedules were established for certification under the Sederhana II Program.

C. Palembang Provincial Office (Jambi and South Sumatra) - During the reporting period, Mr. M.J. Crawford, the Provincial Irrigation Engineer, made one field trip regarding certification of a completed subproject and another field trip regarding a nearby problem subproject, incorporated the latest changes into the monitoring system and assisted with special problems.

Inspection for possible certification was made of the upper end of Subproject Tangga Dewata during a two-day field trip.

The problem area of Subproject Sekojo Ujung was visited once during the month. Installation of automatic water level recorders has not yet been started.

On March 3, Mr. Gunawan W., USAID Engineer, Jakarta, and Ir. Soehartono, staff of Land Development, DGFC, Jakarta, visited Palembang. Discussions were held with Provincial Agricultural Services staff, the Provincial Irrigation Engineer and the Regional Agricultural Team concerning selection of candidates for the High Performance Sederhana Irrigation Systems (HPSIS).

On March 11, Mr. C.E. Aksamit, the Resident Manager, Mr. J.A Erickson, Area Engineer and Mr. H. Gunawan, Irrigation Engineer visited Palembang. Instructions were given on the subjects of certifications, monitoring program changes, annual O & M inspections, coordination with the Agricultural Team on field trips, and in particular on the HPSIS Program.

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 assisted with design reviews, upgrading of construction supervision and inspection and the O & M joint inspection program.

A joint inspection for O & M purposes was carried out at Subproject Way Waya Srikaton on March 18. Members of the Consultants Regional Agricultural team and Provincial Public Works staff were accompanied by the Provincial Engineer on this inspection.

Completed copies of the report, which includes a major works improvement program, have since been distributed to all the parties concerned.

Mr. Holloway visited Bengkulu DPU from March 9 to 13. During this period discussions were held with DPU staff on the new monitoring requirements. A special effort was made with the DPU and Pertanian to obtain details of the uncertified tertiary works completed by Pertanian. Field trips were also made for certification of major and tertiary works in Bengkulu Utara and Rejang Lebong.

On March 25, Mr. Holloway had a meeting with Mr. Rubini Yusuf, DPU Irrigation Engineer, Lampung and members of his staff concerning re-design of the replacement weir for Subproject Way Getah Srimenanti.

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 making field inspection trips to subprojects for certification and subproject selection, coordinating programs with the agricultural department, and assisting with other activities such as subproject monitoring, selection and checking.

From March 4 to 6, 1982, Mr. R.E. Dixon, Area Engineer and Mr. Wahyu A., Irrigation Engineer, visited the Bandung Provincial Office to discuss new guidelines for subproject monitoring, selection of the subprojects for the High Performance Sederhana Irrigation Systems (HPSIS) Program, certification of Sederhana major works and tertiary systems and the high number of non-functional subprojects in West Java Province.

On March 5, 1982, Mr. R.E. Dixon, Mr. Wahyu A., and Mr. M.C. Christensen met with Ir. Adnan Samudi, Provincial Public Works Sederhana Engineer to discuss the above subjects.

On March 5, 1982, Mr. R.E. Dixon, Mr. Wahyu and Mr. Christensen also met with Mr. W.J. Schoenleber, Agricultural Engineer to discuss selection of the HPSIS Program subprojects.

On March 11, 1982, Mr. M.C. Christensen attended a meeting at the Agricultural office dealing with the selection of the HPSIS Program subproject. From March 11 to 12, Mr. Christensen accompanied Mr. McCauley of the Ford Foundation, Mr. Schoenleber and Ir. Kusnadi, Chief of Sub Directorate of Water Management to proposed HPSIS Program subprojects.

From March 22 to 27, 1982, Mr. M.C. Christensen accompanied Mr. R.E. Dixon and Mr. Wahyu to Central Java for inspection of completed subprojects.

On March 22, 1982, Mr. M.C. Christensen, Mr. R.E. Dixon and Mr. Wahyu met with Ir. Martopo, Chief of Water Resources and Ir. Subekti, Provincial Public Works Sederhana Engineer to discuss the Monthly Monitoring Program and certification of Sederhana II subprojects.

F. Manado Provincial Office (North Sulawesi, Central Sulawesi and Maluku) - During the period, Mr. F.B. Regonas, Provincial Irrigation Engineer, concentrated his efforts on subproject inspection; review of preliminary canal layout and structures location for subprojects under 1981/82 Survey and Design; updating and revising the monthly monitoring forms to include tertiary works program; and coordination with the Regional Agricultural Team in connection with the HPSIS Program.

From March 10 to 12, 1982, Ir. Joes Oemar Hamzah, USAID Engineer and Mr. Daud Brahmana BSc., MOA, Jakarta, visited North Sulawesi for the HPSIS Program subproject selection. The Regional Agricultural Team, DIPERTA and DPU staff and Mr. Regonas accompanied and assisted the team in the subproject inspections. On March 12, 1982, a meeting was held in the DIPERTA office with Ir. D.A. Sihombing, Agricultural Inspector, and his staff, Mr. R. Suatmadja BIE, Sederhana Engineer, representatives from the BAPPEDA and BANGDA, Mr. K.F. Jeng, Agricultural Engineer and Mr. Regonas to discuss the HPSIS Program.

G. Ujung Pandang Provincial Office (South Sulawesi and Southeast Sulawesi) - During this period, Mr. C.F. Sayer, Provincial Irrigation Engineer concentrated his efforts on certifications, completion of design reviews, monitoring of major and tertiary works and liaison with Dinas Pertanian on development of Sederhana subprojects.

Further discussions were held with Ir. A. Yantahin, Chief of Water Resources, South Sulawesi on completion of construction of the subprojects for program years 1979/80 and 1980/81. The O & M organization for 1982/83 was also discussed.

On March 8, 1982, joint discussions were held between DPU and Dinas Pertanian and visitors from Jakarta on selection of subprojects for the HPSIS program. This is reported fully under the Agricultural section of this report. Mr. C.F. Sayer attended a meeting on March 20, 1982 at the Dinas Pertanian Offices where a system for priority rating of Sederhana subprojects was discussed with the Consultants Agricultural Regional Team and members of Dinas Pertanian staff. Dr. M. Poffenberger, USAID and Mr. Daud, DGFC, on a visit from Jakarta, also participated.

H. Mataram Provincial Office (Bali, West Nusa Tenggara and East Nusa Tenggara)

- During the reporting period Mr. L.P. Lim, Provincial Irrigation Engineer in coordination with Mr. H.Y. Huang, Agricultural Engineer and DPU and DIPERTA counterparts made field inspection trips preparatory to the annual O & M inspections of selected subprojects in West Nusa Tenggara. Other activities included inspection trips to completed subprojects with special problems on structure repairs, design reviews of proposed subprojects, and design of the Sambana weir and chute structure for Subproject Batu Swan.

On March 11, 1982, Mr. Lim met Mr. Sutrisno, Chief of O & M, regarding the formation of the annual O & M inspection party, to be composed of representatives from the various concerned government agencies. It was agreed that the inspection be made on the first week of April, 1982.

On March 24, 1982, Mr. Lim together with Mr. H.Y. Huang attended a meeting at the DIPERTA office, which was headed by Dr. Mark Poffenberger and Mr. M. Morfit from USAID. Purpose of the meeting was to identify Sederhana subprojects with high productivity potential.

On March 23 to 27, 1982, Ir. Satrio Judo, USAID Civil Engineer and Mr. Lasim BE., Binlak II staff visited West Nusa Tenggara and was accompanied by Mr. Lim and Mr. H.Y. Huang on a joint inspection trip to subprojects with certified major and tertiary works.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <sup>1/</sup>	
Aceh	Krueng Ulin	2-1	79/80	324	0	3/17	Special Purpose	Evaluation of gabion weir improvement works.
		6-1	80/81		0	3/17	Completion	20 meter of new canal lining damaged.
		2-1	81/82		0	3/17	Completion	Improvements to gabion weir completed.
	Rimba Raya I & II	NA	75/76	608	0	3/18	Special Purpose	Updating of irrigation schematic.
		5-1	80/81		188	3/18	Certification	Certifiable.
	Tizbang Gajah	NA	74/75	507	0	3/19	Special Purpose	Updating of irrigation schematic.
		4-1	80/81		164	3/19	Certification	Certifiable.
	Alue Ubai	1-C	79/80	2309	659	3/20	Certification	1979/80 & 1980/81 works certifiable and 1981/82 successfully completed as of inspection. (Note: gabion weir damaged by flood on April 2, 1982 - No longer certifiable). Review of weir site for design of masonry weir.
		1-C	80/81		488	3/20	Certification	
		1-C	81/82		391	3/20	Construction	
		-	82/83		0	3/20	Design Review	
	Manggeng I & II	NA	75/76	867	0	3/23	Special Purpose	Schematic of older works upgraded. New work presently not functional because of road and bridge construction. Site of improvement of free intake investigated to facilitate design review.
		6-1	79/80		78	3/23	Certification	
		2-1	80/81		334	3/23	Certification	
		5-1	81/82		455	3/23	Construction	
-		82/83	0		3/23	Design Review		

Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <sup>1/</sup>	
Aceh (Cont'd)	Krueng Geupeu	1-N	80/81	144	144	3/16	Special Purpose	
		-	82/83		0	3/16	Design Review	
North Sumatra	Semangat Baris I	1-N	79/80	280	230	2/16	Special Purpose	Evaluation for HPSIS
	Aek Mandosi III	3-N	81/82	400	50	2/17	Special Purpose	Evaluation for HPSIS
	Aek Mandosi I,II	2-C	79/80	893	0	2/17	Special Purpose	Evaluation for HPSIS
	Sisuhar-Suhar	3-N	80/81	600	497	2/17	Special Purpose	Evaluation for HPSIS
	Aek Simare	9-I	78/79	395	0	2/17	Special Purpose	Evaluation for HPSIS
	Purwaganda/ Purwogondo	3-I	81/82	200	0	2/25	Construction	Replacement of gabion weir by masonry weir. Weir design revised due to bedrock foundation in river.
	Pekan Dolok	3-N	79/80	625	307	2/26	Certification	Certifiable. Need additional improvement works to irrigate part of area from two temporary free intakes by farmers. 1981/82 work of poor quality.
		1-I	80/81		0	2/26	Certification	
		1-I	81/82		0	2/26	Completion	
	Bandar Sidoras	6-I	80/81	1808	1094	3/8	Special Purpose	Evaluation for HPSIS
6-C		81/82	0		3/8	Construction	Construction of drainage facilities satisfactory.	
-		82/83	0		3/8	Design Review	Improvements of drainage facilities.	

TABLE IV - 1  
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<sup>1/</sup> Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <sup>1/</sup>	
North Sumatra (Cont'd)	Kelahun Pinang	NA	74/75	530	0	3/9	Special Purpose	Evaluation for HPSIS
		3-I	79/80		241	3/9	Special Purpose	Evaluation for HPSIS
		5-I	80/81		289	3/9	Special Purpose	Evaluation for HPSIS
	Lau Simeme	NA	75/76	170	0	3/10	Special Purpose	Evaluation for HPSIS
		4-I	79/80		170	3/10	Special Purpose	Evaluation for HPSIS
West Sumatra	Guguk Landuk	2-N	80/81	236	211	3/6	Certification	Certifiable, some O & M needed.
		10-I	81/82		0	3/6	Construction	Construction just started.
	Timbulun Koto	6-I	78/79	196	196	3/9	Certification	Tertiary works not yet complete.
	Talang Kemuning Jaya	4	76/77	985	985	3/10	Certification	Major works functional. O & M active. Tertiary works not yet certifiable, 585 hectares are not yet functional.
	Lubuk Buaya	6-N	79/80	1568	946	3/11	Construction	Tertiary works are under construction.
	Tamiang Ampalu	3	76/77	337	337	3/17	Special Purpose	O & M needed. 1979/80 improvement works are complete and functioning.
		3-I	79/80		0	3/17	Completion	
	Batang Karumie	3-N	79/80	228	133	3/18	Special Purpose	Major works functional. O & M needed. 1981/82 improvement works are incomplete but functional.

TABLE IV - 1  
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<sup>1/</sup> Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <sup>1/</sup>	
West Sumatra (Cont'd)	Batang Karumie (Cont'd)	5-C	80/81		95	3/18	Special Purpose	Major works functional. O & M needed. 1981/82 improvement works are incomplete but functional.
		9-I	81/82		0	3/18	Special Purpose	
South Sumatra	Sekojo Ujung	13	76/77	1280	1280	2/1 2/6	Special Purpose	Special program to develop operational procedures and farmer interest in a under utilized reclamation subproject.
	Air Sunur	6	77/78	1060	0	2/18	Special Purpose	Evaluation of project development.
		1-C	79/80		368	2/18	Special Purpose	Evaluation of project development.
		1-I	80/81		524	2/18	Special Purpose	Evaluation of project development.
		1-I	81/82		0	2/18	Special Purpose	Evaluation of project development.
	Lantipe	NA	75/76	266	0	2/19	Completion	No rice being grown. Canal banks have been cut, reportedly by coffee growers. Canal alignment at upper reaches dangerously close to river.
		8-I	78/79		NA			
Ataran Bagindo	1-N	79/80	178	NA	2/20	Certification	Weir design not technically sound. Gabion construction will not withstand flood forces. Intake basin will fill with large river cobbles. Life of weir will be very short. Over 80% of subproject area developed to rice. Not certifiable	
	2-I	81/82		NA				

TABLE IV - 1  
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Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <sup>1/</sup>	
South Sumatra (Cont'd)	Tangga Dewata	5-I	80/81	440	NA	3/19	Certification	Questionable. To be resolved.
	Sekojo Ujung	13	76/77	1280	1280	3/31	Special Purpose	Development of operating procedures.
engkulu	Air Besi	20	76/77	785	0	3/9	Certification	Not certifiable. Pertanian tertiary works inspection. No evidence of construction. System overgrown in coffee plantations.
	Air Durian	15	77/78	166	166	3/10	Construction	Not certifiable. Pertanian tertiary works, construction satisfactory. No land developed to rice, all in coffee or other uses.
	Air Buah	1-N	80/81	132	0	3/11	Construction	Dam site satisfactory but possible future problems with canal on steep hillside.
	Air Uram	3-N	80/81	768	768	3/12	Certification	Certifiable, extensive existing rice.
		3-I	81/82	0	0	3/12	Completion	Complete and functional.
mpung	Way Kulur	1-N	79/80	643	0	3/4	Special Purpose	Extensive canal silting and undergrowth. Farmers are using the water from a free intake downstream of the weir.
		5-I	81/82	0	0	3/4	Special Purpose	
	Way W. Srikaton	4-I	80/81	0	671	3/18	Special Purpose	Joint O & M inspection.
	Way Sungkai I	1-N	80/81	268	268	3/22	Special Purpose	Appraisal of farmer usage of irrigation water.

TABLE IV - 1  
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Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <sup>1/</sup>	
West Java Ciamis (Cont'd)	Way Sungkai II	1-N	81/82	156	0	3/22	Construction	Satisfactory, approximately 70% complete. Water supply questionable.
	Way Sabuk Sindang Agung	4	78/79	230	230	3/23	Certification	DPU tertiary works satisfactory for 109 ha. Satisfactory.
		1-I	81/82			3/23	Construction	
	Way Getah Sri-menanti	8-I	81/82	733	733	3/23	Design Review	Relocation of replacement weir.
	Way Getah Hilir	1	78/79	172	172	3/31	Certification	DPU tertiary works incomplete. Coffee growing area, farmers not using the water.
	Citaman	2-N	77/78	110	0	3/9	Certification	Tertiary subproject. Work is deferred maintenance and not certifiable.
	Cisempar/Cinagara	4-N	78/79	195	195	3/10	Certification	Tertiary subproject. Certifiable.
	Surakatiga	22-N	79/80	402	402	3/11	Special Purpose	HPSIS selection.
	Sukanagalih	2-N	78/79	306	306	3/12	Special Purpose	HPSIS selection.
Leuwi Jubleg	3-N	78/79	319	319	3/12	Special Purpose	HPSIS selection.	

TABLE IV - 1  
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<sup>1/</sup> Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <sup>1/</sup>	
Central Java	Kalongan	1-C	80/81	153	NA	3/23	Certification	Not certifiable. Needs embankment.
	Glintiran	3-N	80/81	425	0	3/24	Certification	Certifiable.
		1-C	81/82		425			
	Ubalan	1-N	80/81	201	201	3/26	Certification	Certifiable.
	Woro	4-N	80/81	101	101	3/26	Certification	Certifiable.
North Sulawesi	Meras Atas	6	74/75	128	128	3/4	Special Purpose	HPSIS Pre-selection.
						3/10	Special Purpose	HPSIS Selection.
	Tumalimudut	10	75/76	280	280	3/4	Special Purpose	HPSIS Pre-selection.
	Paniki Buha	5	77/78	381	0	3/10	Special Purpose	HPSIS Selection.
	Lombiawan	4-N	79/80	353	0	3/11	Special Purpose	HPSIS Selection.
	Tadoy	6-N	79/80	282	0	3/11	Special Purpose	HPSIS Selection.
	Southeast Sulawesi	Wonco I	1-N	79/80	840	840	3/3	Certification
2-I			80/81	0		3/3	Certification	Certifiable.
Wonco II		3-N	80/81	278	NA	3/3	Certification	Certifiable.

<sup>1/</sup> Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <sup>1/</sup>	
Southeast Sulawesi	Kolasa Kiri	3-N	79/80	474	474	3/4	Certification	Certifiable.
		4-C	80/81	-	0	3/4	Certification	Certifiable.
		3-I	80/81	-	0	3/4	Certification	Certifiable.
		1-C	81/82	-	0	3/4	Certification	Certifiable.
West Nusa Tenggara	Renpek	1-I	81/82	617	347	3/3	Certification	Certifiable.
	Irot	NA	NA	200	200	3/4	Subproject Selection	Feasible.
	Genter	NA	NA	150	150	3/4	Subprojec Selection	No water during dry season.
	Mencongah	1	79/80	322	269	3/8	Certification	Tertiary works.
	Penimbung	4-C	78/79	656	401	3/9	Special Purpose	Preparatory O & M Annual Inspection.
	Benjor	4	77/78	227	227	3/9	Special Purpose	Preparatory O & M Annual Inspection.
	Lendang Jurang	7	77/78	185	185	3/10	Special Purpose	Preparatory O & M Annual Inspection.
	Sindang Gila	2	80/81	855	259	3/23	Special Purpose	USAID verification visit.
	Penimbung	4-C	78/79	656	401	3/23	Special Purpose	USAID verification visit.
	Tarusa I	5	77/78	395	395	3/25	Special Purpose	USAID verification visit.

<sup>1/</sup> Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <sup>1/</sup>	
West Nusa Tenggara (Cont'd)	Tarusan	1-I	78/79	678	0	3/25	Special Purpose	USAID verification visit.
	Lekong	2-C	79/80	456	136	3/25	Special Purpose	USAID verification visit.
	Patula	2	79/80	342	0	3/26	Special Purpose	USAID verification visit. gabion weir non functional due to settlement.
		1-C	80/81	-	342	3/26	Special Purpose	
	Mada Pangga	1	80/81	454	454	3/27	Certification	Certifiable.
		2-I	81/82	-	0	3/27	Certification	Certifiable. Improvement of flume will be done under the 1982/83 program.
	Ncoha	2-C	78/79	522	204	3/27	Special Purpose	USAID verification visit.
	Brang Kolong	4-N	79/80	310	197	3/27	Special Purpose	Gabion weir washed out.

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<sup>1/</sup> Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.

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

PROVINCE	SUBPROJECT			AREA (HA)		REVIEW STATUS <sup>1/</sup>	COMMENTS
	NAME	NO.	YEAR	TOTAL	IPRIG.		
Aceh	Krueng Geupeu	-	82/83	144	0	Completed	Improvement works on gabion weir and secondary canal lining.
	Alue Ubai	-	82/83	2309	0	In progress	Design investigation for upgrading gabion weir to masonry.
	Manggeng I & II	-	82/83	867	0	Completed	Design investigation for free intake. Irrigation water blocked by road and bridge construction.
North Sumatra	Purwaganda/Purwagondo	3-I	81/82	200	0	Completed	Revised to use bed rock in river channel
Lampung	W. Getah Srime-nanti	8-I	81/82	733	733	Completed	Redesign of weir. Construction was halted at an early stage and weir relocated.
West Java	Cigurawes	-	82/83	169	169	Completed	Satisfactory.
West Nusa Tenggara	Gamente	NA	83/84	308	NA	In progress	Weir hydraulic and structural computation not submitted.
	Goge	NA	NA	500	NA	In progress	Weir hydraulic and structural computation not submitted.
	Batu Swan	NA	NA	428	NA	In progress	Weir hydraulic and structural computation not submitted.

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

PROVINCE	SUBPROJECT			AREA (HA)		TYPE OF CERTIFICATION <sup>1/</sup>	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
Aceh	Rimba Raya I&II	5-I	80/81	608	188	TSC and CCC	Conversion of gabion weirs to masonry and extension of subproject area.
	Timbang Gajah	4-I	80/81	507	164	TSC and CCC	Conversion of gabion weir to masonry and extension fo subproject area.
North Sumatra	Padang Mahondang	1-N	80/81	1281	286	TSC and CCC	Water assured during wet season.
		1-C	81/82		717	TSC and CCC	Water assured during wet season.
West Sumatra	Guguk Landuk	2-N	80/81	236	211	TSC and CCC	Satisfactory.
Lampung	Way Sabuk Sindang Agung	4	78/79	109	109	CSD and CCC	DPU Tertiary works
Bengkulu	Air Uram	3 (N)	80/81	768	768	TSC and CCC	
		3 (I)	81/82	0	0	TSC and CCC	
West Java	Babakan Cicau	20-N	79/80	183	183	TSC and CCC	
		13-I	81/82		0		
	Ciherang	4-N	80/81	487	249	TSC and CCC	
		1-C	81/82		229		
	Glintran	3	80/81	425	0	TSC and CCC	
		1-C	81/82		425		
	Ubalan	1	80/81	201	201	TSC and CCC	
Moro	4	80/81	101	101	TSC and CCC		

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

PROVINCE	SUBPROJECT			AREA (HA)		TYPE OF CERTIFICATION <sup>1/</sup>	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
Southeast Sulawesi	Wonco I	1-N	79/80	840	840	TSC and CCC	Awaiting revised schematic
		2-I	80/81	-	0	TSC and CCC	
	Wonco II	3-N	80/81	278	278	TSC and CCC	Awaiting revised schematic
	Kolasa Kiri	3-N	79/80	474	474	TSC and CCC	Awaiting revised schematic
		4-C	80/81	-	0	TSC and CCC	
		3-I	80/81	-	0	TSC and CCC	
		1-C	81/82	-	0	TSC and CCC	
South Sulawesi	Gelung Lohe	7-N	79/80	960	925	TSC and CCC	Awaiting revised schematic
West Nusa Tenggara	Mada Pangga	1	80/81	454	454	TSC and CCC	Tertiary works needed
		2-I	81/82	-	0	TSC and CCC	Tertiary works needed
	Rempek	1-C	81/82	617	347	TSC and CCC	Land development and tertiary work needed
	Mencongah	1	79/80	322	269	CSD and CCC	Tertiary works

## 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 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 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.

On March 27, 1982, Mr. S.M. Lee, Land Development Engineer and Ir. Tangkas P., Counterpart met with Mr. C.E. Aksmit, Resident Manager and Mr. R.E. Dixon, Area Engineer for discussion concerning the potential subproject certifications in the Provinces of Kalimantan.

On March 30 and 31, 1982, Mr. Lee and Ir. Tangkas P. went to South Kalimantan to review the program progress with Ir. Soebekti S., Chief DIPERTA, Ir. Bambang, Division Chief, and their staff.

During this reporting period, Mr. J.Y. Hsu, WUA Advisor continued to assist the staffs of the Sub-directorate of Water Management, DAAD, and the Provincial and District Agricultural Services with their program on the use of instruments for measuring water discharge and loss in irrigation canals.

During this reporting period, Mr. R.T. Edwards, Agricultural Coordinator assisted the DAAD staff with their programs on HPSIS and Land Development. Also the first draft of the MOA Monthly Monitoring Manual was completed.

## 5.2 AGRICULTURAL ACTIVITIES - REGIONAL OFFICES

The MOA Training Courses, Subproject Inspections and Subproject Design Reviews 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 Program.
- The Action Research Program.
- Implementation of the Monthly Monitoring Program.

A. Medan Regional Office (Aceh, North & West Sumatra and Riau) - From March 1 to 3, 1982, the Regional Agricultural Advisory Team met with the DIPERTA staff of North Sumatra Province for coordinating the Sederhana Project activities. The collection of data for the tertiary and the Land Development Inventories were given special attention.

On March 5 and 6, 1982, the Regional Advisory Team joined Mr. C.S.F. Lizardo, Provincial Irrigation Engineer for inspecting the Subproject Bandar Sidoras (1808 ha) as a potential site for the HPSIS Program in North Sumatra Province.

From March 8 to 13, 1982, the Regional Advisory Team accompanied the HPSIS selection team from Jakarta for the final selection of a site for the HPSIS Program. A total of 3 subprojects were visited. The Subproject Kelahun Pinang (530 ha) was selected as the site for North Sumatra Province.

From March 24 to 27, 1982, the Regional Advisory Team visited West Sumatra Province for a meeting with Mr. J.A. Erickson, Area Engineer, and Mr. R.S.F. Lizardo, Provincial Irrigation Engineer. The main purpose of the discussion was the subprojects which could be certified before July 1982.

B. Palembang Regional Office (Jambi, South Sumatra and Bengkulu) - On March 3, 1982, the Regional Advisory Team participated in a meeting of the DIPERTA staff with the HPSIS selection team from Jakarta. Twenty-six officials from various South Sumatra Provincial agencies attended the meeting.

From March 4 to 7, 1982, the Regional Advisory Team accompanied the Jakarta selection team, Ir. Soehartono, DAAD, and Ir. Gunawan, USAID, and officials from DIPERTA, Public Works and the University on the inspection of two subproject candidates for the HPSIS Program. The Subproject Lubuk Tupak (104 ha) was selected as the site for the HPSIS Program.

Mr. R.P. Miras, Team Leader met on March 10, 1982 with Mr. M.J. Crawford, Provincial Irrigation Engineer for discussing certification of the tertiary work by Public Works before July 1982. These subprojects will require the certification of the WUA's to qualify for reimbursement.

On March 11, 1982, the Regional Advisory Team held a conference with Mr. C.E. Aksamit for overall program progress and planning of activities until the end of the Consultant's contract in July 1982.

A joint conference between the Regional Agricultural Advisory Team and the Provincial Irrigation Engineer was held on March 12, 1982, with Messrs. C.E. Aksamit, J.A. Erickson and Ir. Gunawan from the Consultants Central Office, Jakarta.

From March 16 to 18, 1982, Team Leader R.P. Miras, Agricultural Engineer M. Noer A. and DIPERTA Counterpart A. R. Ridwan visited Jambi Province for discussions with the DIPERTA staff about WUA certifications.

From March 17 to 20, 1982, Agricultural Engineer A.H. Lo, Agriculturist Hilmar H., and Palembang UPP Chief Herman Beroni visited UPP offices in the Districts of Muara Enim and Baturaja to check the progress of the Land Development Program.

On March 22, 1982, Mr. Miras discussed with the DIPERTA staff the selection of Community Organizers (CO) candidates to be assigned to the HPSIS subprojects. Also discussed was the completion of the MOA Questionnaires required for the WUA certification.

From March 24 to 27, the Regional Advisory Team visited Bengkulu Province for discussions with the DIPERTA staff about certifications, land development and monthly monitoring.

C. Telukbetung Regional Office (Lampung) - From March 4 to 5, 1982, the Regional Advisory Team assisted the Jakarta selection team, Ir. Kusnadi, DAAD, and Dr. David McCauley, Ford Foundation, with the selection of the site for the HPSIS Program. Subproject Way Awi II (326 ha) was selected as the site.

From March 8 to 12, 1982, Mr. J.Y. Hsu, WUA Advisor assisted the Regional Team with the WUA upgrading at 4 subprojects. Mr. Hsu met with the DIPERTA staff for discussions on water management and water measuring devices.

On March 18, 1982, the Regional Team assisted Provincial Public Works with a joint annual O & M Inspection of Subproject Way Waya Srikaton (671 ha).

On March 27, 1982, Mr. R.B. Maza, Team Leader, held a conference with Mr. D.W. Holloway, Provincial Irrigation Engineer, for coordinating program activities.

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

The Major work emphasis during this report period was the selection of suitable candidates as the new HPSIS subproject. On March 11 and 12, 1982, the Jakarta selection team made an inspection of the 3 most suitable candidates. Because of various problems with the candidates, it has been decided to inspect other candidates in the Banten area next month before deciding on a final site.

The Subproject Leuw! Bitung (325 ha) was certified as having the on-farm construction completed during this report period. On March 30 and 31, 1982, the Subproject Ciderum (150 ha) was inspected and found to be certifiable while the Subproject Cimarayana (269 ha) is not certifiable because the construction progress remains unsatisfactory.

**E. Manado Regional Office (North Sulawesi) -** On March 2, 5 and 6, 1982, the Regional Advisory Team assisted the DIPERTA staff with the formation of the WUA for the Subprojects Motondong (135 ha) and Ranotuana (188 ha). The organization charts and the schematic maps were prepared.

The Regional Team assisted the Jakarta selection team, Ir. Daud, DAAD and Ir. Joes, USAID with the selection of Subproject Tadoy (282 ha) as the new site for the HPSIS program. From March 8 to 12, 1982, 4 HPSIS subproject candidates were inspected by the selection team, Provincial Public Works Staff, DIPERTA staff and other officials.

On March 29, 1983, the Regional Advisory Team inspected the existing HPSIS Subproject Pentu (231 ha) to check the progress of the improvement work on the Major Works and the On-farm Works which has been done by PPW. The WUA will be assisted by DIPERTA for the completion of the related canal system.

Several design maps for land development were reviewed by the Regional Team during this report period. Many problems were identified (see Table V-3) and recommendations were provided for improving the designs.

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

On March 1, 1982, Mr. C.C. Tai, Agricultural Engineer, and Ir. Prijanto S., Agriculturist, attended a meeting of UPP Chiefs from South Sulawesi Province and discussed program progress.

From March 5 to 9, 1982, the Regional Advisory Team assisted with the selection of a new site for the HPSIS program. The Jakarta selection team held several meetings with officials from DIPERTA, Public Works, Planning and other agencies. Three potential sites were visited. The Subproject Kocikang (245 ha) was selected as the new HPSIS site.

On March 19, 1982, Dr. Mark Poffenberger, USAID and Ir. Daud B., DAAD held discussions with Mr. S.D. Scully, Team Leader and Ir. Sidarto, Agricultural Engineer about data collection for a proposed program to classify Sederhana subprojects. On March 20, 1982, Dr. Poffenberger met with DIPERTA and Public Works officials to discuss his proposed classifications of "good", "intermediate" and "poor" performances for subprojects in South Sulawesi. A temporary classification was made for the 86 subprojects listed - 20 were good, 37 were intermediate, 11 were poor and 18 were not classified.

From March 16 to 19, 1982, Messrs. Tai and Prijanto visited Maluku Province to assist DIPERTA with their UPP program and to present lectures at a training course.

From March 24 to 26, 1982, Messrs. Tai and Prijanto visited Southeast Sulawesi Province at the request of the Chief, DIPERTA to assist land development contractors and the UPP staff in upgrading the UPP program.

G. Mataram Regional Office (Bali, West and East Nusa Tenggara) - From March 3 to 6, 1982, the Regional Advisory Team visited Sumbawa UPP Office for the purpose of giving assistance on the Land Development Program. Two days of lectures covering survey, design, construction and paddy field forming techniques were presented to 15 staff of Sumbawa UPP I and II.

From March 9 to 11, 1982, joint O & M inspections were made to the Subprojects Penimbang (right side 235 ha), Benjor (227 ha), Lendang Jurang (185 ha) and

Mencongah (322 ha). The inspection team included Provincial Public Works staff, DIPERTA staff, WUA officials and the Consultants. The locations of needed repair works were recorded.

From March 12 to 14, 1982, the Regional Team visited DIPERTA, Bali, for the purpose of giving assistance on the use of cut-throat flumes, cipolletti weirs and Thompson weirs for water discharge measurements. Theoretical and practical instructions, together with demonstrations, were given to the staff of DIPERTA at Nyitdah, Kabupaten Tabanan. Also, the potential area for land development of the Subproject Caguh (1,079 ha) was inspected.

On March 22 and 23, 1982, the Regional Team assisted the Sederhana team from Jakarta with the subproject classification program. The team included Ir. Daud B., DAAD, Dr. Mark Poffenberger, USAID, and Dr. Michael Morfit, USAID. Sample subproject inspections were made at Subprojects Sindang Gila (855 ha), Penimbung (right side 235 ha) and Montong Tanggi (305 ha). Also, discussions were held with the farmers and WUA Officials.

On March 24, 1982, the Regional Team attended a meeting to classify subprojects. Participants included the team from Jakarta, Mataram University, BAPPEDA, Provincial DPU, and DIPERTA representatives. The 27 subprojects in the province of West Nusa Tenggara were classified into three classes with 11 good, 14 intermediate and 2 poor.

From March 23 to 27, 1982, the Regional Agricultural Advisory Team accompanied the USAID Engineer for the field inspection of completed construction of both Major and On-farm Works in the Province of West Nusa Tenggara. The field trips were made with Ir. Satrio Yudo, USAID; Mr. Lasim BE., DGWRD; Messrs. Conny S. BIE and Ida Made B., PPW; Burhanuddin, Chief Sumbawa UPP; and Mr. L.P. Lim, Provincial Irrigation Engineer. Ten subprojects were inspected - 4 for Major Works and 6 for On-farm Works. The needed improvement works and the emergency measures required to reduce damage were noted.

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

COURSE TITLE	COURSE DATE	COURSE LOCATION (District and Province)	PARTICIPANTS		COMMENTS
			NO.	CLASSIFICATION	
and development and 3A development	During all of January 1982-3 days course per UPP unit	UPP offices, Lampung	25	Farmer Groups	
Orientation Training for UPP Staff	March 15-20, 1982	Ambon, Maluku	16	Technical & Field Worker Staff	C.C. Tai and Prijanto involved in giving lec- tures.
Upgrading for Land Development Design	March 25-26, 1982	Kendari, Southeast Sulawesi	10	Contractor's Designers and DIPERTA Staff	Special short intensive course by C.C. Tai, Prijanto S., and Djafar Parussengi.
and Development Survey, Design and Construction	March 4-5, 1982	Sumbawa, West Nusa Tenggara	15	UPP Staff	Lectures by H.Y. Huang.
Water Management Program	March 13, 1982	Tabanan, Bali	2 2	DIPERTA Staff UPP Staff	Lectures and Demonstra- tion by H.Y. Huang.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS <sup>2/</sup>
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE <sup>1/</sup>	
North Sumatra	Bandar Sidoras	6-1	80/81	1808	600	3/5,8	Special Purpose	For HPSIS subproject selection. Tertiary system has survey & design completed. Construction not yet.
	Kelahun Pinang	-	74/75	530	444	3/9	Special Purpose	For HPSIS subproject selection. Preliminary survey & design has been completed.
	Bukit Cermin	7	76/77	542	542	3/9	Special Purpose	For ARP and visited P3A.
	Aek Mandosi	11	76/77	852	493	3/10	Special Purpose	For Water User Association.
	Pekan Dolok	3	79/80	625	265	3/11	Special Purpose	For Action Research Program.
	Aek Simare	9	76/77	512	512	3/10	Special Purpose	For Water User Association.
	Siharanjang	2	79/80	128	128	3/12	Special Purpose	For HPSIS selection.
	Kuala Janji	6	76/77	1347	360	3/12	Special Purpose	For Water User Association.
	Kelahun Pinang	-	74/75	530	444	3/12	Special Purpose	Selected as the HPSIS subproject.
	North Sumatra	Lubuk Tupak	7	76/77	84	100	3/5	Special Purpose
Sungai Bahu		-	75/76	110	NA	3/6	Special Purpose	Accompanied USAID & DAAD inspection.

TABLE V - 2  
 Sheet 1 of 6

<sup>1/</sup> Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.  
<sup>2/</sup> Report On-Farm Works, Water User Association (NUA), Action Research Program (ARP), HPSIS Program or Land Development (IIP).

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS <sup>2/</sup>
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE <sup>1/</sup>	
South Sumatra (Cont'd)	Belitang II*	-	-	2001	NA	3/19	Special Purpose	Land development program.
Lampung	Way Ngison	4	79/80	950	500	3/4	Special Purpose	HPSIS Subproject Selection.
	Way Awi II	7	79/80	326	300	3/5	Special Purpose	HPSIS Subproject Selection.
	Way Bulok Sukamara	7	77/78	253	253	3/9	Special Purpose	WUA Upgrading with Mr. J.Y. Hsu.
	Way Lunik Penengahan	6	77/78	353	353	3/11	Special Purpose	WUA Upgrading with Mr. J.Y. Hsu.
	Way Gading	9	78/79	272	272	3/12	Special Purpose	WUA Upgrading with Mr. J.Y. Hsu.
	Way Maya Srikaton	4	76/77	671	510	3/18	Special Purpose	O & M inspection with DPU.
	Way Batu Keting	8	77/78	356	300	3/22	Construction	On-farm works completed.
	Way Sabuk Sindang Agung	4	78/79	486	486	3/23	Special Purpose	O & M inspection with DPU.
	Way Getah Hilir	1	78/79	172	30	3/23	Special Purpose	O & M inspection with DPU.
West Java	Suraka Tiga	22	79/80	402	NA	3/11	Special Purpose	HPSIS site selection.
	Leuwi Jubleg	3	78/79	319	NA	3/12	Special Purpose	HPSIS site selection.

Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.  
Report On-Farm Works, Water User Association (WUA), Action Research Program (ARP), HPSIS Program or Land Development (LDP).  
\* Not a Sederhana Subproject.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS <sup>2/</sup>	
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE <sup>1/</sup>		
West Java (Cont'd)	Sukanagalih	2	78/79	306	NA	3/12	Special Purpose	HPSIS Site Selection.	
	Cimarayana	5	77/78	269	316	3/30	Construction	On-farm Works.	
	Ciderum	6	76/77	150	141	3/31	Construction	On-farm Works.	
North Sulawesi	Motondong	7	79/80	135	36	3/2 3/6	Special Purpose	WUA Formation.	
	Ranotwana	5	79/80	188	180	3/5 3/6	Special Purpose	WUA Formation.	
	Meras Atas	6	74/75	128	50	3/4 3/10	Special Purpose	HPSIS Site Selection.	
	Paniki Buha	5	77/78	381	35	3/10	Special Purpose	HPSIS Site Selection.	
	Tumalimudud	3	75/76	280	270	3/3	Special Purpose	HPSIS Site Selection.	
	Lombiawan	4	79/80	353	216	3/11	Special Purpose	HPSIS Site Selection.	
	Tadoy	6	79/80	282	282	3/11	Special Purpose	HPSIS Site Selection.	
	Pontu	9	77/78	231	52	3/29	Special Purpose	HPSIS, The improvement of major works, and the structures of tertiary works were completed.	
	South Sulawesi	Pompengan*	-	-	NA	NA	3/4	Special Purpose	Planned for land development program.

TABLE V - 2  
 Sheet 3 of 6

<sup>1/</sup> Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.  
<sup>2/</sup> Report On-Farm Works, Water User Association (WUA), Action Research Program (ARP), HPSIS Program or Land Development (UPP).  
 \* Not a Sederhana Subproject.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS <sup>2/</sup>
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE <sup>1/</sup>	
South Sulawesi (Cont'd)	Bajo*	-	-	NA	NA	3/5	Special Purpose	Land development construction.
	Leang-Leang	6	77/78	640	NA	3/6	Special Purpose	HPSIS Site.
	Kajuara*	-	-	NA	NA	3/6	Special Purpose	HPSIS Site.
	Cambojawa*	-	-	NA	NA	3/6	Special Purpose	HPSIS Site Selection.
	Kocikang	-	75/76	245	NA	3/7, 19	Special Purpose	HPSIS Site Selection.
	Panaikang III	2-N	81/82	223	NA	3/7	Special Purpose	HPSIS Site Selection.
	Balang Tieng	4	79/80	358	NA	3/7	Special Purpose	HPSIS Site Selection.
	Tappanjen*	-	-	300	NA	3/8	Special Purpose	HPSIS Site Selection.
	Nomongan	1	76/77	241	NA	3/11	Special Purpose	WUA, to provide a water management plan.
	Kariu I	9	76/77	432	NA	3/20	Special Purpose	Data for subproject classification.
Panaikang II	11	76/77	369	NA	3/21	Special Purpose	Data for subproject classification.	
Bali	Caguh	1	78/79	1097	1060	3/13	Special Purpose	Land development potential area.

TABLE V - 2  
Sheet 4 of 6

<sup>1/</sup> Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.  
<sup>2/</sup> Report On-Farm Works, Water User Association (WUA), Action Research Program (ARP), HPSIS Program or Land Development (LDP).  
\*Not a Sederhana Subproject.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS <sup>2/</sup>
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE <sup>1/</sup>	
Bali (Cont'd)	Tabanan*	-	-	300	300	3/13	Special Purpose	Check measuring devices and Demonstration.
West Nusa Tenggara	Penimbung	6	77/78	625	235	3/9	Special Purpose	Joint O & M Inspection with DPU.
	Benjor	4	77/78	227	106	3/9	Special Purpose	Joint O & M Inspection with DPU.
	Lendang Jurang	7	77/78	185	128	3/10	Special Purpose	Joint O & M Inspection with DPU.
	Mencongah	1	79/80	322	322	3/11	Special Purpose	Joint O & M Inspection with DPU.
West Nusa Tenggara	Sindanggila	2	80/81	855	116	3/22	Special Purpose	Accompanied USAID Inspection.
	Penimbung	6	77/78	656	235	3/23	Special Purpose	Accompanied USAID Inspection.
	Montong Tangi	5	76/77	305	305	3/23, 24	Special Purpose	Accompanied USAID Inspection.
	Sidemen	6	76/77	626	556	3/24	Special Purpose	Accompanied USAID Inspection.
	Lekong	3	78/79	456	401	3/25	Special Purpose	Accompanied USAID Inspection.
	Tarusa I	5	77/78	395	395	3/25	Special Purpose	Accompanied USAID Inspection.
	Tarusan	5	76/77	678	558	3/25	Special Purpose	Accompanied USAID Inspection.

TABLE V - 2  
 Sheet 5 of 6

Report Subproject Selection, Design Review, Construction, Certification, or Special Purpose.  
 Report On-Farm Works, Water User Association (WUA), Action Research Program (ARP), HPSIS Program or Land Development (UPP).  
 \* Not a Sederhana Subproject.

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

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS <u>2/</u>
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE <u>1/</u>	
West Nusa Tenggara (Cont'd)	Patula	2	79/80	342	282	3/26	Special Purpose	Accompanied USAID Inspection.
	Mada Pangga	1	80/81	454	254	3/27	Special Purpose	Accompanied USAID Inspection.
	Ncoha	1	77/78	522	522	3/27	Special Purpose	Accompanied USAID Inspection.

TABLE V - 2  
 Sheet 6 of 6

Report Subproject: Selection, Design Review, Construction, Certification, or Special Purpose.  
 Report In-Farm Works, Water User Association (WUA), Action Research Program (ARP), HPSIS Program or Land Development (UPI).

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

PROVINCE	SUBPROJECT			AREA (HA)		REVIEW STATUS <sup>1/</sup>	COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG.		
North Sumatra	Aek Pernaldoan*	-	-	250	NA	In progress	Land Development, Survey & Design completed, earth volume calculation not yet sent.
	Aek Bustak*	-	-	170	NA	In progress	Land Development, Survey & Design completed, earth volume calculation not yet sent.
	B. Sitongkon*	-	79/80	400	NA	In progress	Land Development, Reviewed only 221 Ha., earth volume calculation not yet sent.
	M. Boru/Sikuah-kuah*	-	-	400	NA	In progress	Land Development, Reviewed for 400 Ha., earth volume calculation not yet sent.
South Sumatra	Pilla Ranau	9	76/77	75	53	Completed	Land Development, Revision needed.
	Sunut*	-	-	350	187	Completed	Land Development, Revision needed.
North Sulawesi	Tadoy	6	79/80	282	282	In progress	
	Mopugad	2	77/78	741	441	In progress	

Report Received, In Progress or Completed.

\* Not a Sederhana Subprojects.

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

PROVINCE	SUB-PROJECT			AREA (HA)		TYPE OF <sup>1/</sup> CERTIFICATION	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
West Java	Lewi Bitung	9	77/78	325	325	On-farm works	Construction by MOA.

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 - 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 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	Jakarta	9 Feb 82	18 Feb 82

APPENDIX "A"  
(Sheet 2 of 3)

<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 Person. 1</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 - SANGKURIANG

Technical Personnel

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	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. 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. Syakhrum 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 <sup>1/</sup>  
 MAN-MONTH EXPENDITURES: IEEO

MONTH <sup>2/</sup>	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	-	-	203.95
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	4.13	17.26	342.54	-	-	138.96
Mar 82	17.00	352.35	-	3.05	-	4.13	17.00	359.54	-	-	121.96
Apr 82											
May 82											
Jun 82											
Jul 82											
CONTRACT ALLOWANCES	-----	446.50	-----	25.00	-----	10.00	-----	481.50	-----	-----	-----

Contract period: 10 July 1980 - 9 July 1982.  
 Billing period is from 26th of preceding month to 25th of month shown.

SEDERHANA IRRIGATION PROJECT II <sup>1/</sup>  
 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	5.81	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											
May 82											
Jun 82											
Jul 82											
<b>CONTRACT ALLOWANCES</b>	----	164.00	----	25.00	---	----	----	189.00	-	-	-----

Contract period: 10 July 1980 - 9 July 1982.

**SEDERHANA IRRIGATION PROJECT II <sup>1/</sup>**  
**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 (+)							
Ju1 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
Ju1 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											
May 82											
Jun 82											
Ju1 82											
<b>CONTRACT ALLOWANCES</b>	---	212.50	---	---	---	---	---	212.50	---	---	---

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

SEDERHANA IRRIGATION PROJECT II <sup>2/</sup>  
 MAN-MONTHS EXPENDITURES : SANGKULIANG 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	-	-	103.57
Jul 81	10.55	129.98	-	-	-	-	10.55	129.98	-	-	98.02
Aug 81	9.81	139.79	-	-	-	-	9.81	139.79	-	-	83.21
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											
May 82											
Jun 82											
Jul 82											
TRACT ADVANCES	---	228.00 <sup>2/</sup>	---	---	---	---	---	228.00 <sup>2/</sup>	---	---	---

Contract period: 10 July 1980 - 9 July 1982.  
 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 (+)							
Jul 80	-	-	-	-	-	-	-	-	-	-	-
Aug 80	-	-	-	-	-	-	-	-	-	-	-
Sep 80	-	-	-	-	-	-	-	-	-	-	-
Oct 80	0.16	0.16	-	-	-	-	-	-	-	-	-
Nov 80	4.20	4.36	-	-	-	-	0.16	0.16	-	-	102.36
Dec 80	5.00	9.36	-	-	-	-	4.20	4.36	-	-	98.14
							5.00	9.36	-	-	93.14
Jan 81	5.00	14.36	-	-	-	-	-	-	-	-	-
Feb 81	5.00	19.36	-	-	-	-	5.00	14.36	-	-	88.14
Mar 81	5.00	24.36	-	-	-	-	5.00	19.36	-	-	83.14
Apr 81	5.00	29.36	-	-	-	-	5.00	24.36	-	-	78.14
May 81	5.00	34.36	-	-	-	-	5.00	29.36	-	-	73.14
Jun 81	5.00	39.36	-	-	-	-	5.00	34.36	-	-	68.14
Jul 81	5.00	44.36	-	-	-	-	5.00	39.36	-	-	63.14
Aug 81	4.71	49.07	-	-	-	-	5.00	44.36	-	-	58.14
Sep 81	5.00	54.07	-	-	-	-	4.71	49.07	-	-	53.43
Oct 81	5.00	59.07	-	-	-	-	5.00	54.07	-	-	48.43
Nov 81	5.00	64.07	-	-	-	-	5.00	59.07	-	-	43.43
Dec 81	5.00	69.07	-	-	-	-	5.00	64.07	-	-	38.43
							5.00	69.07	-	-	33.43
Jan 82	5.00	74.07	-	-	-	-	-	-	-	-	-
Feb 82	5.00	79.07	-	-	-	-	5.00	74.07	-	-	28.43
Mar 82	5.00	84.07	-	-	-	-	5.00	79.07	-	-	23.43
Apr 82							5.00	84.07	-	-	18.43
May 82											
Jun 82											
Jul 82											
TRACT ADVANCES	----	102.50	---	---	---	---	----	102.50	---	---	-----

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 <sup>1</sup>	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	\$ 206,106.22	
20.	Jan. 1982	5 Mar 82	\$ 210,279.39			

## 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	
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			
20.	Feb. 1982	29 Mar. 82	Rp. 2,600,145			

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			