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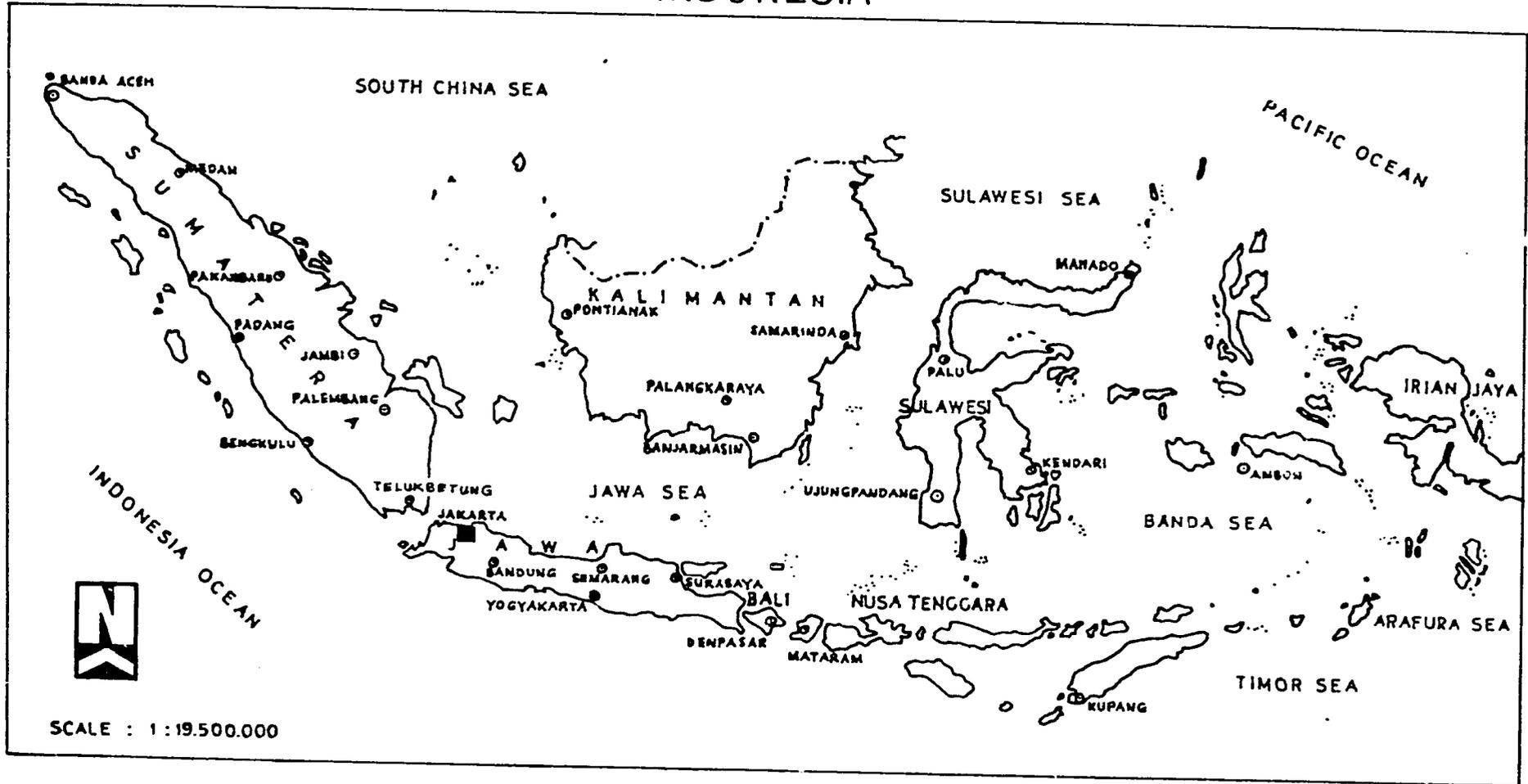
THE UNITED STATES OF AMERICA AGENCY FOR INTERNATIONAL DEVELOPMENT
and
THE DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
of the
MINISTRY OF PUBLIC WORKS
representing
MINISTRY OF PUBLIC WORKS AND THE MINISTRY OF AGRICULTURE
GOVERNMENT OF INDONESIA

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

MONTHLY PROGRESS REPORT NO. 17
FOR PERIOD
NOVEMBER 1, 1981 - NOVEMBER 30, 1981

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

INDONESIA



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"A"	CONSULTANT'S PERSONNEL
"B"	COUNTERPART PERSONNEL
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"D"	BILLING STATUS

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.

This seventeenth Monthly Report is submitted in accordance with Appendix A, Article K, Subarticle a of the Contract. It covers major events from November 1 through November 30, 1981 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 inspection, subproject design review, certification of completed works, program monitoring, updating the tertiary inventory and updating the status of active subprojects.

Visits were made by the Central Advisory Team to Provincial and Regional Offices in Pekanbaru, Riau; Jambi; Telukbetung, Lampung; Palembang, South Sumatra; Bandung, West Java; Manado, North Sulawesi; and Kendari, Southeast Sulawesi.

The Provincial Irrigation Engineers performed subproject inspections in North Sumatra, West Sumatra, Riau, South Sumatra, Jambi, Lampung, Bengkulu,

West Java, North Sulawesi, South Sulawesi and West Nusa Tenggara; design reviews in North Sumatra, West Sumatra, Lampung, West Java and South Sulawesi; and certifications in North Sumatra, West Sumatra, Riau, Lampung, Bengkulu, West Java and East Java.

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

Provincial Irrigation Engineers and Regional Agricultural Teams were given further instruction regarding their respective programs including area of responsibility, work schedules and priorities. Special emphasis was given to completing design reviews for works to be constructed under the 1981/82 Program, upgrading construction supervision activities, completion of outstanding subproject selection questionnaires for works to be designed or constructed in 1982/83, coordinating the tertiary inventory between DPU and DIPERTA, and status of active subprojects.

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 November 30, 1981, 13 Certifications of Technical Soundness and 13 Certifications of Completion of Construction of subproject Major Works were submitted to DGWRD.

Mr. C.W. Shih, Agricultural Engineer for Medan, returned from Official R & R Leave on November 4, 1981.

Mr. C.E. Aksamit, Resident Manager departed on official R & R Leave on November 28, 1981. Mr. Aksamit will remain in the United States until mid-January for treatment of a serious medical problem.

Mr. R.T. Edwards, Agricultural Coordinator, was on official emergency leave to attend his mothers funeral from November 20 to 29, 1981.

Mr. R.B. Maza, Agricultural Engineer for Telukbetung was on Official R & R Leave from November 8 to 20, 1981.

Mr. H.Y. Huang, Agricultural Engineer for Mataram, was on official R & R Leave from November 8 to 28, 1981.

3.1. SUPPORT ACTIVITIES

Mr. J.Y. Hsu, Water User Association Advisor, visited the Bandung and Telukbetung Regional Agricultural Advisory teams on November 4 to 7 and 9 to 13, 1981 respectively. The training movies "Kadir Pendekar Air" and "Agricultural Development in Taiwan" were shown to the farmers and their families at two sub-projects in West Java Province and at three subprojects in Lampung Province.

From November 11 to 13, 1981, Mr. R.E. Dixon, Area Engineer and Ir. Wahyu A., Irrigation Engineer visited the Provincial Public Works Office in Kendari, Southeast Sulawesi to update the Tertiary Inventory and and review the status of active subprojects. On November 14, 1981, discussions were held with the Ujung Pandang Agricultural Team.

From November 5 to 8, 1981, Mr. J.A. Erickson, Area Engineer and Ir. H. Gunawan, Irrigation Engineer, accompanied Ir. Mamad Ismail, Chief of Sub-Dir. of Construction Management II, and Mr. Sutomo BIE., Chief of Section IV (Sumatra) to Pekanbaru, Riau Province. The purpose of the trip was to access the Sederhana Program in Riau and inspect subproject improvements proposed for the 1982/83 program year.

From November 24 to 28, 1981, Mr. J.A. Erickson, Area Engineer, and Mr. A. Afif, Irrigation Design Engineer, traveled to South Sumatra and Jambi Province. November 24 and 28 were spent in Palembang assisting Mr. M.J. Crawford,

the Provincial Irrigation Engineer, to develop his home province program. From November 25 to 27, 1981, Mr. Crawford was accompanied to Jambi, introduced to the Provincial DPU staff and assisted with the development of a consultants work program for Jambi.

3.2 PROGRAM MONITORING

Subproject monitoring continued during this period with updated progress and data sheets being transmitted to DGWRD, Jakarta and DGFC, Pasar Minggu. Monitoring is conducted only for active Subprojects. The number of provinces having active subprojects and the number for which monitoring has been initiated are presented below:

<u>Program Year</u>	<u>Number of Provinces</u>					
	<u>With Active Subprojects</u>		<u>Monitoring Implemented</u>		<u>Monitoring Submitted this Month</u>	
	<u>DGWRD</u>	<u>DGFC</u>	<u>DGWRD</u>	<u>DGFC</u>	<u>DGWRD</u>	<u>DGFC</u>
1976/77	11	9	11	9	7	2
1977/78	13	9	13	9	9	2
1978/79	16	2	16	2	10	2
1979/80	23	19	23	19	15	2
1980/81	23	18	23	18	16	1
1981/82	23	24	23	20	16	3

Table III-1 and III-2 present the status of the October 31 submittals from each Province for each Program for the DGWRD and DGFC, respectively.

A special request was made in September of all Provincial Public Works Offices to submit Subproject Data Sheets (monitoring forms S1, S2, S3 and S4) to Jakarta, for all active subprojects. Table II-3 shows the provinces which submitted or did not submit the required data sheets.

3.3 MEETINGS

On November 3, 1981, Mr. C.E. Aksamit, Resident Manager and Mr. R.T. Edwards, Agricultural Coordinator met with Mr S. Yunan, Administrator of Foreign Aid, and Dr. Effendi P., Chief of Operations, both from DAAD. Discussions were primarily directed to the Consultants future activities in the Sederhana II program.

On November 12, 1981, Mr. R.T. Edwards met with Ir. Kusnadi A., Chief Sub Directorate of Water Management, Ir. Daud B., Chief of Water Management Section and Mr. S. Yunan, all from DAAD. Details, with time and place, were arranged for the Water Management Seminars to be presented this month by Mr. T.H. Lee, Water Management Specialist to the DGFC Staff.

On November 13, 1981, Mr. C.E. Aksamit and the Central Agricultural Advisory Team attended a meeting of USAID Representations and the Senior staff of DAAD. Ir. Semito S., Director DAAD, chaired the meeting which concerned the planned trip to Taiwan and the Philippines of GOI officials connected with the HPSIS program. The trip to Taiwan is planned for the period November 29 to December 26 followed by visit to the Philippines from December 6 to 13, 1981, all expenses to be paid from USAID Grant Funds.

On November 12, 1981, Mr. R.E. Dixon and Ir. Wahyu A. met with Ir. Soeharno, Sub Directorate of O & M to review the Tertiary Development Program subproject inventory.

On November 13, 1981, Mr. B.C. Ferguson, Assistant Resident Manager met with USAID officials regarding the lease and expenses for maintaining the USAID leased house occupied by the Provincial Irrigation Engineer in Ujung Pandang. Mr. Ferguson also met with the USAID engineering staff regarding the Sederhana II Tertiary Program. A listing of the Tertiary Works implemented under the Provincial Public Works Sederhana Program was provided to the USAID engineering staff.

Mr. C.E. Aksamit, Resident Manager and Mr. B.C. Ferguson, Assistant Resident Manager, attended a meeting at the Public Works offices on November 24, 1981 between Ir. Mamad Ismail, Chief of Sub-Directorate of Construction Management II and his staff, Mr. W.J. Ackerman, USAID. The chief topic was the Sederhana II loan reimbursement for tertiary works. Also discussed was major works certification and reimbursement, the submittal of design materials. The DGWRD agreed to provide USAID with lists of subprojects for which reimbursement will be sought under the Sederhana II loan (both major and tertiary works), and cost data to permit evaluation of the reimbursement rate for tertiary works.

3.4 SHORT TERM SPECIALIST

Mr. T.H. Lee, Water Management Specialist visited the Manado Regional Agricultural Advisory Team from November 2 to 6, 1981 in preparation of Water Management Plans for two subprojects in North Sulawesi: Kaluntai (303 ha) in Minahasa District and Yantaton (369 ha) in Bolaang Mongondow District. Site visits were made to both subprojects where Mr. Lee explained in detail the procedures of preparing water management plans to the district DIPERTA staff, the village chief, the WUA officials and the Ulu-Ulu (ditch tender for the irrigation system). Also time was spent this reporting period reviewing and correcting Water Management Plans sent in to the Central Office from the Regional Agricultural Advisory Teams of Medan, Palembang and Mataram.

On November 18, 1981, Mr. Lee met with Mr. J.A. Erickson, Area Engineer for discussion about the irrigation problems of Subproject Sekojo Ujung (1280 ha) located near Palembang, South Sumatra.

During the reporting period considerable time was spent by Mr. Lee in preparing the material for a series of Water Management Seminars to be presented to the DGFC staff in Jakarta. Two full days on November 26 and 27, 1981, were used to present the seminars to 15 staff members. The topics presented were as follow:

- (1) Water Management Principles and Practices
- (2) Water Management and Water User Association
- (3) Water Management Plan of an Irrigation System
- (4) Distribution of Water
- (5) Application of Water Management in Sederhana Project Areas
- (6) Drainage in Irrigated Agricultural Land
- (7) Information System for Irrigation Systems

TABLE III - 1
STATUS OF DGWRD MONITORING PROGRAM

November, 1981

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

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

TABLE III - 2
STATUS OF DGFC MONITORING PROGRAM
November, 1981

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

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

TABLE III - 3
 DGWRD MONITORING PROGRAM
 SUBMITTAL OF PROVINCIAL DATA SHEETS
 November, 1981

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

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

IV. IRRIGATION ENGINEERING ACTIVITIES

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

4.1 IRRIGATION ENGINEERING ACTIVITIES - JAKARTA OFFICE

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

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

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

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

During this period, the DGWRD provided course materials used in the DGWRD's construction supervision training courses, for use by the Consultants in future construction supervision training courses. This material was translated by the Consultants staff and reviewed.

B. Survey and Mapping Activities - During the month of November, Mr. J.D. Sabiniano, Irrigation Design Engineer, made field trips to Bengkulu and Yogyakarta to give training courses in checking surveys and mapping.

From November 9 to 18, 1981, Mr. J.D. Sabiniano, Irrigation Design Engineer, accompanied by Ir. Wahyu A., Irrigation Engineer, visited Bengkulu, Bengkulu Province where they presented a training course in survey and mapping aimed chiefly at upgrading the Provincial Public Works capability in this area. The course was attended by 21 participants who were mostly designers and surveyors from Provincial Public Works and Bupati Offices and three national consultants. The survey and mapping specifications and guidelines for checking surveys and mapping were explained in detail. Five days were spent in the field, including checking actual completed surveys for Subprojects Air Telatang Besar and Air Petai, using both the compass theodolite and the planetable. The methods of closing the traverse, checking and adjusting survey readings, plotting and preparing topographic maps were demonstrated. As-built survey and mapping was also demonstrated. Since bench marks were missing on Subproject Air Telatang Besar, special assistance was given on the establishment and maintenance of bench marks.

From November 23 to 26, 1981, Mr. Sabiniano and Ir. Irdam Adil visited Yogyakarta where they presented a survey course in survey and mapping aimed chiefly at upgrading the capability of the Provincial Public Works Staff in checking surveys performed by national consultants. The course was conducted at the DPU Training Center in Yogyakarta and was attended by 17 Provincial Public Works staff from 12 Provinces. The survey and mapping specifications and guidelines for checking survey and mapping were explained in detail. Two days were spent in the field demonstrating the use of the planetable. The methods of closing the traverse, checking and adjusting survey readings, establishing and preserving bench marks, and plotting and preparing topographic maps were demonstrated.

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.

A. Medan Provincial Office (Aceh and North Sumatra) - During the reporting period Mr. C.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, preparation of as-built schematics, upgrading of construction supervision and inspection, development of an O & M program, coordination with agricultural programs, training, and special design and construction problems.

On November 10, 1981, a meeting was held with the Chief of Water Resources and staff in Medan concerning the problems at Subproject Risma Duma.

From November 16 to 23, 1981, Mr. Gunawan, USAID Engineer and Mr. Martono of DGWRD were in North Sumatra to inspect Sederhana Subprojects. They were accompanied on the inspections by Mr. Lizardo, Mr. A. Tjahya, DPU North Sumatra and the Medan Regional Agricultural Team.

On November 24 and 25, 1981, meetings were held with Chief of Section, at DPU Section Offices in Tapanuli Tengah and Deli Serdang. Completion of problem subprojects and preparation of subproject questionnaires were discussed.

Mr. Lizardo assisted Drs. Tampubolon BIE, Sederhana Staff Training Coordinator, North Sumatra, with preparation of training programs for construction supervision, subproject selection and design.

B. Padang Provincial Office (West Sumatra and Riau) - During the reporting period, Mr. R.S.F. Lizardo, the Provincial Irrigation Engineer, made field inspections, prepared certifications of completed subprojects and assisted in programs for operation and maintenance and upgrading of construction supervision and inspection.

From November 2 to 8, 1981, Mr. Lizardo travelled to Pekanbaru, Riau Province for assistance with special problems areas and for refinement of his work program in Riau. From November 5 to 8, 1981, Mr. Lizardo accompanied Ir. Mamad Ismail, Chief of the Sub Directorate of Construction Management II, Mr. Soetomo BIE., Chief of Section IV, Mr. Rubai BIE., Chief of Water Resources Riau, Mr. J.A. Erickson, Area Engineer and Mr. H. Gunawan, Area Engineer on inspections of Sederhana subprojects in Riau.

From November 16 to 20, 1981, Mr. Lizardo travelled to Riau Province. On November 19 and 20 a two day presentation on Construction Supervision was presented at the Section Office in Bangkinang Kabupaten Kampar.

From November 16 to 23, 1981, Mr. Satrio J., USAID Engineer, visited in West Sumatra Province. Mr. Lizardo accompanied Mr. Satrio on field inspections for verifications of tertiary and major works. Mr. Lizardo also accompanied Mr. Satrio to the DIPERTA Provincial Office in Lubuk Sikaping and assisted in explaining the certification and reimbursement programs.

On November 28, a joint meeting was held with DPU and DIPERTA staff in Padang to coordinate subproject selection and operation and maintenance activities.

C. Palembang Provincial Office (South Sumatra and Jambi) - During the reporting period, Mr. Malcolm J. Crawford, the Provincial Irrigation Engineer made field inspection trips and assisted with annual O & M subprojects inspections, special problem areas and determining the status of active subprojects.

Field trips were made to Subprojects Talang Kelapa and Kancil Putih as part of a special joint team effort to address operational and crop production problems at these subprojects.

From November 10 to 12, 1981, Mr. C.E. Aksamit, Resident Manager, was in Palembang. During his visit he met with the DPU Irrigation staff as well as the Consultant Provincial Irrigation and Agricultural Engineers. The central topic of discussion was the formation of a joint O & M inspection team for the purpose of making annual inspections of Sederhana Subprojects.

He recommended participation of representatives from DPU, Agriculture, Local Government and Water Users Association with implementation to begin as soon as possible. A start with Subproject Air Salak, Air Sunur and Pilla Ranau, was suggested. The proposal was well received and it was decided to begin inspections the next week.

From November 16 to 21, 1981, Mr. J.A. Erickson, Area Engineer and Mr. A. Afif, Irrigation Design Engineer, visited the Palembang DPU Office and from November 25 to 27 they and Mr. Crawford visited Jambi. Mr. Crawford was introduced to Officials in Jambi and specific problems and activities of subprojects were discussed. Subproject Dusun Kermio was inspected to assess special problem areas.

D. Telukbetung Provincial Office (Bengkulu and Lampung) - 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, O & M Planning and presentation of the survey and mapping course.

The main effort during the month was design reviews for 1982/83 major works construction. Special assistance was given in checking the design of an on-going 1981/82 subproject in South Lampung where soils investigations and tests were required for redesign.

On November 3, 1981, a joint meeting was held with DIPERTA and DPU staff in Lampung Provinces. Discussions centered on coordination of efforts on the High Performance Subproject and for subproject maintenance.

From November 9 to 13, 1981, Mr. Holloway travelled to Bengkulu Province to assist Mr. Sabiniano in presentation of the Survey and Mapping Course and for certification of completed Major Works.

E. Bandung Provincial Office (West Java, Central Java, Yogyakarta and East Java) - The principle activities of this office for the reporting period included making field inspection trips to subprojects for design review, completion, certification and improvement; assisting in upgrading the survey and design review program; subproject selection; construction inspection; and various engineering activities.

On November 9, 1981, Mr. M.C. Christensen, Provincial Irrigation Engineer, accompanied Mr. W.J. Schoenleber, Agricultural Engineer to Sumedang Kabupaten for the first annual operation and maintenance inspection of Subproject Cikalong. This inspection and the subsequent meeting were used as a training aid to institute an operation and maintenance plan on Sederhana Subprojects in West Java. The meeting was well attended by the Provincial Public Works and Provincial Agriculture Staffs.

On November 11, 1981, Mr. M.C. Christensen accompanied Mr. W.J. Schoenleber to Cianjur Kabupaten for the first annual operation and maintenance inspection of subproject Cumanggala.

F. Manado Provincial Office (North Sulawesi, Central Sulawesi and Maluku) - During the period, Mr. F.B. Regonas, Provincial Irrigation Engineer, concentrated his efforts on new subproject appraisals, subproject construction inspection, lectures on construction supervision and preparation and updating data for the monitoring program.

From November 5 to 13, 1981, Mr. Sudadi BE. and Mr. D. Damrah of DGWRD, Jakarta, visited Manado, North Sulawesi to appraise subprojects for construction under 1982/83. Mr. Regonas assisted the appraisal team and accompanied in the inspection trips from November 6 to 9, 1981 in Section Minahasa and Bolaang Mongondow.

On November 12, 1981, Mr. Regonas attended a staff meeting of Section Minahasa and presented a lecture on the guidelines for construction inspection and supervision. Ir. R. Tewu, Chief of Water Resources also spoke during the meeting which was attended by 34 participants. On November 14, 1981, Mr. Regonas gave the same lecture to 14 participants in Section Bolaang Mongondow.

On November 17, 1981, Mr. Regonas accompanied Ir. R. Tewu and staff to inspect construction of 1981/82 improvement subprojects Pentu and Ranotuana in Section Minahasa.

G. Ujung Pandang Provincial Office (South Sulawesi, Southeast Sulawesi and East Kalimantan) - During the period. Mr. C.F. Sayer, Provincial Irrigation Engineer concentrated his efforts on subproject inspections, updating the monitoring program, reviewing subproject designs and discussions with Provincial staff.

The monitoring programs were again reviewed during the reporting period and design reviews completed for two subprojects and started for a further four. Discussions were held with Provincial Chiefs of staff in South and Southeast Sulawesi on ways of improving construction organization and supervision in their Provinces. Further meetings were held with the Agricultural Team to discuss tertiary program implementation.

Mr. R.E. Dixon, Area Engineer, accompanied by Mr. Wahyu A., visited Southeast Sulawesi and South Sulawesi from November 11 to 14, 1981. Topics discussed included certifications to be made for works completed before July, 1982, monitoring of major and tertiary works and subproject selection.

H. Mataram Provincial Office (Bali, East Nusa Tenggara and West Nusa Tenggara) - During this period, Mr. L.P. Lim, Provincial Irrigation Engineer, concentrated efforts on the review and checking of proposed subprojects preliminary design layout submitted by the local Survey and Design Consultants, before undertaking final canal location and profile survey. Meetings were held with local design consultants and discussions for new design concepts based on the Sederhana technical papers. Improvement of construction drawings and adaptation of Sederhana design criteria was also emphasized during the meetings.

From November 9 to 12, 1981, Mr. L.P. Lim and Mr. Karya Sudarma, Director of Tri Tunggal Regional Office (Design and Survey Consultant) travelled to Sumbawa Island to check completed survey and mapping layouts. Relocation of canal alignment and structures was recommended to the design contractor.

On November 28, 1981, Mr. L.P. Lim accompanied Ir. H. Masnun, Chief of Section and staff on a field inspection to special subproject Sindang Gila. The purpose of the trip was to assess the contractor's work, and evaluate the DPU field supervisor's work.

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
North Sumatra	Berastepu	4-N	79/80	887	131	11/18	Special Purpose	USAID visit on certified major works.
		6-C	80/81		756	11/18	Certification	Certifiable.
		7-C	81/82		0	11/18	Certification	Not certifiable.
	Sisuhar-suhar	3-N	80/81	600	135	11/19	Special Purpose	USAID visit on certified major works.
		2-C	81/82		362	11/20	Construction	Construction satisfactory.
	Aek Mandosi I&II	11	76/77	893	39	11/19	Special Purpose	USAID visit on tertiary works.
		8	77/78		237	11/19	Special Purpose	USAID visit on tertiary works.
		2-C	79/80		0	11/19	Certification	Certifiable.
	Sigohi Butuha	3-C	80/81	400	325	11/19	Certification	Certifiable.
		4-N	80/81		221	11/20	Special Purpose	USAID visit on certified major works.
	Aek Mandosi III	3-N	81/82	400	50	11/21	Construction	Irrigable area limited.
	Semangat Baris I	1-N	79/80	280	230	11/22	Special Purpose	O & M satisfactory.
		1-T	80/81		315	217	11/22	Special Purpose
	Pekan Dolok	3-N	79/80	625	625	11/23	Certification	Not certifiable. Damaged at 3 locations of primary canal. Two km of primary canal/silted.
		1-I	80/81		0	11/23	Certification	Not certifiable.

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

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS	
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <u>1/</u>		
North Sumatra (cont'd)	Pekan Dolok (Cont'd)	1-I	81/82	625	0	11/23	Design Review	Review of improvement works for sub-project functionality.	
West Sumatra	Punggung Kasiek	3	77/78	4243	1194	11/10	Special Purpose	As built schematics prepared for 77/78, 78/79 & 79/80 works. 1980/81 works not yet complete.	
		2-C	78/79		1026	11/10	Special Purpose		
		2-C	79/80		1130	11/10	Special Purpose		
		1-C	80/81		893	11/10	Certification		Not certifiable.
		7-I	81/82		0	11/10	Construction		Improvement work not yet started.
	Pasar Bawan	1-N	79/80	437	243	11/11	Certification	1979/80 work is certifiable. 1980/81 Improvement work not yet started. Tertiary work construction for 242 ha progressing well. Requires closer field supervision.	
		1-I	81/82		0	11/11	Construction		
		1-T	81/82		242	11/11	Construction		
	Bandar Bunian	3-N	80/81	105	105	11/16	Special Purpose	USAID verification inspection.	
		6-I	81/82		0	11/16	Construction	USAID inspection. Improvements to major works not yet started. Tertiary work construction not yet started.	

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

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS		
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}			
West Sumatra (cont'd)	Batang Karumie	3-N	79/80	228	133	11/21	Special Purpose	USAID verification inspection. 1981/82 work not yet started.		
		5-C	80/81		95					
		9-I	81/82		0					
	Punggai Bawah	6	76/77	673	362	11/22	Special Purpose		USAID verification inspection.	
		7	77/78		170					
		25-I	78/79		141					
		4-I	79/80		0					
		6-T	76/77		673					339
	Riau	Sei Silam	1-N	79/80	713	0	11/5		Special Purpose	DGWRD inspection.
1-C			80/81	713						
2-C			81/82	0						
Lubuk Ambacang		5-N	79/80	140	140	11/6	Special Purpose	DGWRD inspection.		
		2-C	80/81		0					
		1-C	81/82		0					
Petapahan Toar		4-N	79/80	180	180	11/6	Special Purpose		DGWRD inspection.	

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

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS	
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}		
Riau (cont'd)	Rumbio Taluk	10	76/77	249	150	11/6	Special Purpose	DGWRD Inspection.	
		5	77/78		0				
		13-I	78/79		99				
		4-I	79/80		0				
		1-I	80/81		0				
	Rawang Udang	2	77/78	150	72	11/6	Special Purpose		
		17-I	78/79						
		2-I	80/81						
	Tampan I + II	13	76/77	615	0	11/7	Special Purpose		
		13	77/78		615				
		1-I	79/80		1600				0
	Pantai Marpoyan	10	77/78	1600	0	11/7	Special Purpose		DGWRD inspection.
	Sei Palis	5-I	80/81		0	11/18	Certification		Certifiable.
Perak	2-I	79/80	100	0	11/18	Certification	Certifiable.		
South Sumatra	Kancil Putih	14-I	78/79	1230	1230	10/31	Special Purpose	Special joint consultant effort to resolve problems of operation and on-farm management. Tidal irrigation on acid peat soils.	
		2-I	80/81						

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
November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
South Sumatra (cont'd)	Talang Kelapa	11	77/78	272	272	11/5	Special Purpose	Same as above, an extension of the Kancil Putih Subproject.
	Pilla Ranau	9	76/77	63	50	11/16	Special Purpose	Joint team annual O & M inspection.
	Air Sunur	6	77/78	1060	992	11/18	Special Purpose	Joint team annual O & M inspection.
	Air Salak	NA	75/76	130	130	11/20	Special Purpose	Joint team annual O & M inspection.
Jambi	Sei Dusun Kermio	1	76/77	477	477	11/26	Special Purpose	Water supply not adequate during dry season. About half of subproject floods during wet season. System not yet utilized.
Lampung	Way Kulur	1	79/80	643	0	11/5	Certification	Not yet functional.
		5	81/82		0	11/5		
	Way Jerinjing	4	82/83	419	0	11/11	Subproject Selection	Likely to be short of water for planned area.
	Way Ilian Balak	1	82/83	836	0	11/11	Subproject Selection	Likely to be short of water for planned area.
	Way Gunung Alip	10	81/82	558	0	11/30	Certification	Certifiable.
Bengkulu	Air Mengayau	2-I	81/82	164	164	11/11	Certification	Certifiable.

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

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
Bengkulu (cont'd)	Air Embong III	3-I	81/82	682	682	11/11	Certification	Certifiable.
West Java	Harja Tani	1-N	79/80	92	92	11/6	Certification	Certifiable.
		1-N	81/82					
	Cikeusal	4-N	79/80	126	0	11/6	Certification	Construction not complete.
		2-I	81/82					
	Cilesung	5-N	79/80	215	215	11/6	Certification	Certifiable.
	Liang Maung	6-N	79/80	235	188	11/7	Certification	Not completely functional.
	Cikalong	21-N	76/77	472	472	11/9	Special Purpose	Annual maintenance plan.
	Cumanggala	8-N	76/77	341	341	11/11	Special Purpose	Annual maintenance plan.
Ranca Buaya	5-N	81/82	450	0	11/13	Design Review	Insufficient water, subproject cancelled.	
North Sulawesi	Pangian	NA	82/83	70	NA	11/6	Subproject Selection	Farmers available and water supply adequate.
	Ranoyapo	NA	82/83	1528	NA	11/6	Subproject Selection	Farmers available and water supply adequate.
	Kinali	NA	82/83	322	NA	11/7	Subproject Selection	Farmers available and water supply adequate.

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

TABLE IV -
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
North Sulawesi (cont'd)	Moayat	NA	82/83	1959	0	11/7	Subproject Selection	Improvement to major works.
	Molong	NA	82/83	286	0	11/7	Subproject Selection	Improvement to major works.
	Pinogoluman	NA	82/83	386	NA	11/8	Subproject Selection	Two-weir system; Water inadequate during dry season in one system.
	Tongop	NA	82/83	1080	NA	11/8	Subproject Selection	Farmers available and water supply adequate.
	Paniki Buha	NA	82/83	381	0	11/9	Subproject Selection	Improvement to major works.
	Lombiawan	NA	82/83	353	0	11/14	Subproject Selection	Improvement of major works.
	Pentu	5-I	81/82	231	0	11/17	Construction	Sand trap gate structure excavation encountering boulders, design revision required.
	Ranotuana	7-I	81/82	188	0	11/17	Construction	Weir improvement on-going.
South Sulawesi	Baroangin	5-I	80/81	300	0	11/19	Certification	Certifiable.
	Lenag-Leang	1-C	79/80	640	640	11/2-	Construction	Progress very slow.
	Lancirang	8-I	81/82	417	0	11/25	Certification	Certifiable.
	Baraka	5-I	79/80	195	0	11/26	Certification	Certifiable.

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

TABLE IV - 1
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
South Sulawesi (cont'd)	Baraka (Cont'd)	2-I	81/82	195	0	11/26	Construction	Construction behind schedule.
	Rappang	2-I	79/80	577	0	11/26	Certification	Certifiable.
West Nusa Tenggara	Lekong Madi	NA	82/83	NA	NA	11/5	Project Selection	Service area is already served by "Waduk Dau".
	Muncan	NA	82/83	NA	NA	11/5	Subproject Selection	Proposed irrigation source is without base flow.
	Sindang Gila	1-C	81/82	855	259	11/6	Construction	Revision of division box structures BTS, 3.
	Ijo Balit	NA	82/83	300	NA	11/7	Design Review	Tunneling not feasible.
	Goge (New)	NA	82/83	250	NA	11/7	Design Review	Subproject will need a census of coco land conversion to paddy field.
	Sambana	NA	82/83	414	NA	11/10	Design Review	Revision of Gabion Weir Design to masonry.
	Mada Pangga	2-I	81/82	454	NA	11/11	Construction	Flume will require increased slope.
	Rade	NA	82/83	226	NA	11/11	Special Purpose	Problems of flooding cropping land upstream of proposed new weir site.
	Lido Belo	NA	NA	450	NA	11/11	Design Review	Weir should be relocated upstream to conform with proposed Pelaparado project development.
	Rempek	1-I	81/82	617	297	11/21	Construction	Land Development should be started.

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

TABLE IV - 2
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT DESIGN REVIEWS
November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		REVIEW STATUS ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG.		
North Sumatra	Pekan Dolok	1-I	81/82	625	0	Completed	Improvement works for drainage problem, damage of primary canal and sedimentation of canals.
West Sumatra	Batang Karumie	9-I	81/82	228	0	Completed	None.
Lampung	Way Muara Balak II	6	82/83	205	0	Completed	None.
	Way Tabak	5	82/83	200	0	Completed	Weir need re-siting.
	Way Ilian Balak	1	82/83	836	0	Completed	None.
	Way Jerinjing	4	82/83	419	0	Completed	None.
West Java	Ranca Buaya	5-N	81/82	450	0	Completed	Insufficient water, subproject cancelled.
South Sulawesi	Baroangin	5-1	80/81	300	NA	Completed	Satisfactory.
	Lancirang	8-1	81/82	417	NA	Completed	Satisfactory.

TABLE IV - 3
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT CERTIFICATIONS
November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		TYPE OF CERTIFICATION ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
North Sumatra	Berastepu	6-C	80/81	887	756	TSC and CCC	
	Aek Mandosi I & II	2-C	79/80	893	0	TSC and CCC	
		3-C	80/81	-	325	TSC and CCC	
West Sumatra	Pasar Bawan	1-N	79/80	437	243	TSC and CCC	
Bengkulu	Sei Palis	5-I	80/81	230	0	TSC and CCC	
	Perak	2-I	79/80	100	0	TSC and CCC	
Lampung	Way Gunung Alip	10	81/82	558	0	TSC and CCC	
Bengkulu	Air Mengayau	2-I	81/82	164	0	TSC and CCC	
	Air Embong III	3-I	81/82	682	0	TSC and CCC	
West Java	Harja Tani	1-N	79/80	92	92	TSC and CCC	
	Cilesung	5-N	79/80	215	215	TSC and CCC	
Central Java	Cangkok	6-N	79/80	70	70	TSC and CCC	

V. AGRICULTURAL ACTIVITIES

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

5.1 AGRICULTURAL ACTIVITIES - PASAR MINGGU

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

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

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

During this reporting period, Mr. R.T. Edwards, Agricultural Coordinator, held several meetings with the DAAD staff in preparation for the Third Joint Agricultural Conference to be held in Yogyakarta from December 16 to 19, 1981.

On November 10, 1981, Mr. S.M. Lee, Land Development Engineer, held discussions with Ir. Otje S.R.B., Chief, Subdirector of Land Development, Ir. Dach'an, Section Chief, and other staff on administration of prefinancing and inventory of Land Development Program.

From November 23 to 26, 1981, Mr. S.M. Lee and Ir. Ibnu M., Agricultural Engineer, visited West Kalimantan Province for discussions and review of the

land development program and monitoring with DIPERTA staff.

During this reporting period, Mr. S.M. Lee assisted with the preparation work for the Joint Agricultural Conference. He also assisted the DAAD with arrangements for their program for visiting Taiwan from November 29 to December 5, 1981.

5.2 AGRICULTURAL ACTIVITIES - REGIONAL OFFICES

The MOA Training Courses, Subproject Inspections, Subproject Design Reviews and Subproject Certifications completed during the reporting period by Regional Agricultural Advisory Teams are presented in Tables V-1 through 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
- Formation and Certification of Water User Associations
- The Land Development Program
- Design Review of Land Development Work
- 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 November 17 to 22, 1981, Ir. Gunawan, USAID staff, visited North Sumatra Province for inspecting certified Sederhana subprojects which have been submitted for USAID reimbursement by the DGFC. Mr. C.W. Shih, Team Leader, Ir. Sumarna, Agriculturist, and Ir. A.B. Harahap, DIPERTA staff accompanied Ir. Gunawan to the subprojects Paya Lah-Lah (1980 ha), Kuala Janji (1347 ha), Aek Mandosi (852 ha) and Aek Pandurungan (1675 ha).

From November 18 to 24, 1981, Mr. S. Yunan, DAAD staff, visited Medan for discussions about the HPSIS Program. Ir. Abdurrahman, Chief of North Sumatra DIPERTA with Mr. Yunan inspected the HPSIS Subproject Semangat Baris (230 ha). Mr. Yunan also met with Ir. Gunawan for discussions on reimbursement by USAID.

From November 18 to 21, 1981, the Regional Team visited two Land Development (UPP) Offices at Simalungun and Sibolga, North Sumatra Province, for assistance with their program. Design reviews were made for Land Development on two subprojects (see Table V-3). Recommendations were given to the contractor and UPP staff on presenting data according to the standards set by the DAAD.

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

The Regional Agriculture Advisory Team met with the Provincial Irrigation Engineer and his staff on November 4, 11, 13 and 30, 1981, for coordinating activities for the Water Management and Land Development Programs.

From November 19 to 12, 1981, Mr. C.E. Aksamit visited Palembang to review program activities and administrative matters with the Regional Team. Particular emphasis was directed to the Water Management Program which includes preparing the Water Management Plans and making subproject annual O & M inspections. Meetings were held with the DIPERTA and Public Works Sederhana staffs.

From November 16 to 22, 1981, the Regional Team assisted by Mr. M.J. Crawford, Provincial Irrigation Engineer, accompanied DIPERTA and Public Works staff of South Sumatra Province on an O & M Annual Inspection of the Subprojects Pilla Ranau (63 ha), Air Sunur (1060 ha) and Air Salak (130 ha). The village chiefs, the WUA Chairmen and other local officials also participated in the inspections. Repairs and improvements required for the irrigation systems were noted and recommendations were made for taking immediate action by the responsible agency and/or WUA.

On November 27 & 28, 1981, the Regional Team inspected two land development subprojects in North Sumatra Province. Subprojects Kancil Putih (1230 ha) and Talang Kelapa (272 ha) are under UPP II Unit, Palembang, with 170 ha

and 89 ha developed respectively. The farmers in both subprojects are reporting serious difficulty in producing irrigated rice due to low quality water (high acid), pests, peat soils, etc. To overcome these problems, special production assistance must be provided.

C. Telukbetung Regional Office (Lampung)

The Regional Team, during this reporting period, assisted the DIPERTA staff with the Sederhana Subproject Selection Questionnaires by inspecting six potential areas to be considered for the 1982/83 program year.

From November 9 to 13, 1981, Mr. J.Y. Hsu, WUA Advisor and Ir. I. Mustari, Agricultural Engineer, assisted the Regional Team with their programs for upgrading the WUA and Water Management for three subprojects.

The films "Hero of Water Management" and "Agriculture Development in Taiwan" were shown to 2000 persons at Subproject Way Gading (272 ha), to 400 persons at Way Bulak Sukamara (253 ha) and to 350 persons at Way Lunik Panengahan (353 ha).

On November 16, 1981, the Regional Team made a joint inspection of the irrigation system with DIPERTA and Public Works of the three subprojects selected for upgrading. The village chiefs and WUA officers also joined the inspection team. The problems identified were given immediate action by the responsible office or group responsible for carrying out the activity.

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

From November 4 to 7, 1981, Mr. J.Y. Hsu, WUA Advisor assisted the Regional Team with their program for upgrading the WUA and Water Management at Subprojects Cikalong (472 ha) and Cumanggala (341 ha). Two films on water management were shown with 300 attendance at Cikalong and 1000 attendance at Cumanggala.

On November 9 and 11, 1981, the Regional Team assisted with the Annual O & M Inspection of two subprojects. A third subproject was scheduled for inspection but had to be cancelled because of flooding from an unusually severe

storm. The inspection team included staff from DIPERTA, Public Works, local government and WUA members. For the Subproject Cikalong (472 ha), the inspection was made by 35 participants and for Subproject Cumanggala (341 ha), there were 46 participants. After the inspection, the participants held discussions to explore the means of achieving rehabilitation or repair work where required. All organizations concerned with the Sederhana Program were coordinated toward the common goal of identifying obstacles or problems of promoting good water management by improved O & M activities.

E. Manado Regional Office (North Sulawesi)

On November 3 & 4, 1981, Mr. T.H. Lee, Water Management Specialist, assisted the Regional Team with setting-up Water Management Plans for Subprojects Kaluntai (303 ha) and Yantaton (369 ha). Basic information was collected for making a cropping calendar, irrigation schedule, O & M plan, etc. to be included in the Water Management Plan for each subproject.

From November 9 to 14, 1981, the Regional Team visited five subprojects. At Subproject Yantaton, the Team assisted the DIPERTA staff in making a field survey for producing a situation map. The uses of the plane-table, transit and hand level were demonstrated. A meeting of WUA of Subprojects Motoboy (157 ha) and Mopugad (741 ha) was held for upgrading the organization. Two non-Sederhana subprojects were also visited for assistance to the UPP staff.

From November 25 to 28, 1981, the Regional Team with four Community Organizer (CO) candidates for the HPSIS Program made a field survey of Subproject Pentu (231 ha) for making the detailed situation map. The uses of the plane table and transit were demonstrated to the CO's and WUA officials. Also shown was the method for measuring stream flow.

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

On November 4 & 5, 1981, the Regional Team collected information and data for Water Management Plans from the FAO soils team and Public Works of South Sulawesi Province. Useful soils and rainfall data were obtained. Also, considerable extension training material was found to be available

from Public Works on WUA, Water Management and Land Development.

On November 6 & 7, 1981, the Regional Team visited the UPP staff in Bulukumba District of South Sulawesi Province. An inspection of land development work was made at Subproject Kadieng (616 ha). The importance of the use of the hand level for checking construction was emphasized. Some advice was given for improving bulldozer operation for land levelling work.

From November 11 to 13, 1981, the Regional Team visited Subproject Sulewatang (310 ha) for presenting the Water Management Plan to the WUA. A meeting was held with Polmas District Public Works who has delegated one staff member for working at Subproject Sulewatang. It was found that farmers in the subproject area are having some difficulty with proper timing of preparing the land for rice. This is the direct result of having sold most of their oxen in anticipation of completely trouble free operation of newly acquired tractors. Some belated advice was given in the hopes that other areas take heed to avoid similar problems.

From November 17 to 21, 1981, the Regional Team visited two non-Sederhana Subprojects in South Sulawesi Province to give the UPP staff assistance with rice field forming work. It was recommended that farmers construct a temporary tertiary canal system once the field forming was completed.

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

On November 2, 1981, the Regional Team held discussions with the Mataram DIPERTA Sederhana staff concerning upgrading the WUA and preparing Water Management Plans for Sederhana subprojects. Information was presented on making cropping calendars, irrigation schedules and O & M plans.

From November 3 to 7, 1981, Ir. M. Dardjoko, Agriculture Engineer and Ir. Slamet S., PAS Counterpart visited East Nusa Tenggara for inspection of land development subprojects. Information and data were collected for the Land Development Inventory.

On November 4, 1981, Mr. H.Y. Huang, Team Leader, met with Mr. L.P. Lim, Provincial Irrigation Engineer, for collecting data for Water Management Plans and for coordinating activities.

From November 5 to 7, 1981, Mr. H.Y. Huang visited the DIPERTA staff of Province for collecting data for the Land Development Inventory and dising programs for upgrading WUA and Water Management.

TABLE V - 1
 AGRICULTURAL ACTIVITIES
 MINISTRY OF AGRICULTURE TRAINING COURSES
 November, 1981

COURSE TITLE	COURSE DATE	COURSE LOCATION (District and Province)	PARTICIPANTS		COMMENTS
			NO.	CLASSIFICATION	
Water Management & HPSIS Program	Nov. 20-21, 1981	Lahat, South Sumatra	30	WUA Members, Village Officials & MOA Staff	Lecture by Regional Team Members
Land Development	Nov. 2-4, 1981	Bandar Jaya, Central Lampung	20	UPP Farmers group	Lecture by UPP Official
Land Development	Nov. 5-7, 1981	Bandar Jaya, Central Lampung	20	UPP Farmers group	Lecture by UPP Official
Land Development	Nov. 3-4, 1981	Seputih Raman, Central Lampung	40	UPP Farmers group	Lecture by UPP Official
Land Development	Nov. 9-11, 1981	Jepara, Central Lampung	20	UPP Farmers group	Lecture by UPP Official
Land Development	Nov. 13-15, 1981	Palas, South Lampung	40	UPP Farmers group	Lecture by UPP Official
Land Development	Nov. 19-21, 1981	Kotabumi, North Lampung	40	UPP Farmers group	Lecture by UPP Official
Land Development	Nov. 5-7, 1981	Bangunrejo, Central Lampung	20	UPP Farmers group	Lecture by UPP Official
Land Development	Nov. 9-11, 1981	Kalirejo, Central Lampung	20	UPP Farmers group	Lecture by UPP Official

TABLE V - 1
 AGRICULTURAL ACTIVITIES
 MINISTRY OF AGRICULTURE TRAINING COURSES
 November, 1981

COURSE TITLE	COURSE DATE	COURSE LOCATION (District and Province)	PARTICIPANTS		COMMENTS
			NO.	CLASSIFICATION	
and Development	Nov. 19-21, 1981	Kalirejo, Central Lampung	20	UPP Farmers group	Lecture by UPP Official
and Development	Nov. 23-25, 1981	Kalirejo, Central Lampung	20	UPP Farmers group	Lecture by UPP Official
UA Upgrading Program	Nov. 3, 1981	Kaluntai, Minahasa, North Sulawesi	10	WUA Committee Mem- bers and DIPERTA staff	Lecture by Mr. T.H. Lee
UA Upgrading Program	Nov. 4, 1981	Yantaton I, Bolaang Mongondow North Sulawesi	35	WUA Members, village official and DIPERTA staff	Lecture by Mr. T.H. Lee
UA Training Program	Nov. 12-14, 1981	Tadoy, Bolaang Mongondow North Sulawesi	25	WUA Members	
UA Training Program	Nov. 16-18, 1981	Nonapan, Bolaang Mongondow North Sulawesi	25	WUA Members	
Upgrading for UPP staff	Nov. 18, 1981	Nolling, Luwu, South Sulawesi	12	UPP Staff	
Water Management	Nov. 12, 1981	Polmas, South Sulawesi	10	WUA Members	

TABLE V - 2
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT INSPECTIONS
 November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
North Sumatra	Paya Lah-Lah	8	76/77	1,500	352	11/17	Special Purpose	On-Farm Works Inspection by USAID.
	Kuala Janji	1	76/77	1,349	1,390	11/18	Special Purpose	On-Farm Works Inspection by USAID.
	Aek Mandosi I	7	76/77	852	493	11/19	Special Purpose	On-Farm Works Inspection by USAID.
	Aek Pandurangan	6	76/77	1,675	922	11/21	Special Purpose	On-Farm Works Inspection by USAID.
South Sumatra	Pilla Ranau	9	76/77	63	23	11/17	Special Purpose	O & M Annual Inspection.
	Air Sunur	6	77/78	1,060	453	11/19	Special Purpose	O & M Annual Inspection.
	Air Salak	7	75/76	130	70	11/21	Special Purpose	O & M Annual Inspection.
	Kancil Putih	14	74/75	1,230	NA	11/27	Construction	Land Development
	Talang Kelapa	11	77/78	272	NA	11/28	Construction	Land Development
Lampung	Way Gading	9	78/79	272	272	11/11 11/26	Special Purpose	WUA Upgrading

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).

TABLE V - 2
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT INSPECTIONS
 November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
Bengkulu (cont'd)	Way Balai Kencana	3	77/78	125	125	11/18	Special Purpose	WUA Upgrading.
	Way Panas	7	76/77	90	80	11/28	Special Purpose	WUA Upgrading, improvement of situation map.
	Way Bulok Sukamara	7	77/78	253	253	11/30	Special Purpose	WUA Upgrading, improvement of situation map.
West Java	Cikalong	21	76/77	472	201	11/9	Special Purpose	O & M Annual Inspection.
	Cumanggala	8	76/77	341	261	11/11	Special Purpose	O & M Annual Inspection.
	Cukang Sadang	4	76/77	472	237	11/18	Special Purpose	O & M Annual Inspection.
West Kalimantan	Runut	6	79/80	184	-	11/22	Construction	Land Development, Rice Field Forming
	Menjalin	1	81/82	176	-	11/22	Construction	Land Development, Rice Field Forming
North Sulawesi	Mopugad	2	77/78	741	491	11/12	Certification	WUA, Certifiable.
	Motoboy	4	77/78	157	114	11/11	Certification	WUA, Certifiable.
	Yantaton I	6	77/78	369	129	11/9 11/14	Special Purpose	WUA survey for detailed situation map.

For footnotes See Sheet 1

TABLE V - 2
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT INSPECTIONS
 November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
North Sulawesi (cont'd)	Pentu	9	77/78	231	214	11/25 11/28	Special Purpose	WUA Survey for detailed situation map.
South Sulawesi	Sulewang	4	76/77	345	272	11/12	Special Purpose	Water User Association.
	Kariu I	9	76/77	432	375	11/26	Construction	UPP Paddy field forming.
	Panaikang II	11	76/77	369	244	11/26	Construction	UPP Paddy field forming.
	Kadieng	13	76/77	616	631	11/25	Construction	UPP Paddy field forming.
	Nolling *	-	-	930	580	11/12	Construction	UPP Paddy field forming.
	Balangriri *	-	-	231	200	11/25	Construction	UPP Paddy field forming.
	Tabo-tabo *	-	-	2000	800	11/21	Construction	UPP Paddy field forming.
Southeast Sulawesi	Mowewe I	2	77/78	377	377	11/14	Construction	UPP Paddy field forming.
	Wundulaku *	-	-	NA	NA	11/12	Construction	UPP Paddy field forming.

For footnotes See sheet No. 1 * !lot Sederhana.

TABLE V - 3
AGRICULTURAL ACTIVITIES
SUB-PROJECT DESIGN REVIEWS

November, 1981

PROVINCE	SUBPROJECT			AREA (HA)		REVIEW STATUS ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG.		
North Sumatra	Sioma Oma*	-	-	650	NA	In Progress	Land development, lacks earth volume calculations, cost estimation and situation map.
	Aek Lung*	-	-	400	NA	In Progress	Land development, lacks earth volume calculations, cost estimation and situation map.
Lampung	Sei Batang Nibung	5	76/77	638	496	Completed	Land development, revision needed
	Sei Pulau Pekan	2	77/78	343	171	Completed	Land development, revision needed
	Pematang Jalmu	-	75/76	79	63	Completed	Land development, revision needed
	Sei Talang Pantai	-		116	103	Completed	Land development, revision needed
	Sei Lubuk Kayu Aro	10	76/77	64	15	Completed	Land development, revision needed
	Sei Talang Kemuning	-	75/76	49	44	Completed	Land development, revision needed

Report Received, In Progress or Completed. * Not Sederhana

TABLE V - 4
AGRICULTURAL ACTIVITIES
 SUB-PROJECT CERTIFICATIONS
 November, 1981

PROVINCE	SUB-PROJECT			AREA (HA)		TYPE OF ^{1/} CERTIFICATION	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
North Sulawesi	Mopugad	2	77/78	741	491	WUA	
	Motoboy	4	77/78	151	114	WUA	

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	25 Oct 80 7 Apr 81 9 Oct 81
T.K. Bateman	Chief, Irrigation and Land Reclamation	Jakarta	31 Mar 81	9 Apr 81
W.B. Walters	Office Management and Documentation Specialist	Jakarta	8 May 81	6 Aug 81

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

<u>Name</u>	<u>Classification</u>	<u>Location</u>	<u>Arrival Date</u>	<u>Departure Date</u>
<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	Clerk/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	
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	

INDONESIAN PERSONNEL - INDRA DEVELOPMENT

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

COUNTERPART PERSONNELDGWRD PERSONNEL

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

PROVINCIAL PUBLIC WORKS - SEDERHANA ENGINEERS

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

DGFC PERSONNEL

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

PROVINCIAL AGRICULTURAL SERVICES - REGIONAL COUNTERPARTS

Ir. S.T.M. Sihaloho	- 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

MAN MONTHS EXPENDED (INDONESIA)

Month	I E C O ^{1/}				S I N O T E C H ^{1/}				S A N G K U R I A N G				I N D R A D E V E L O P M E N T	
	Long - Term		Short - Term ^{2/}		Long - Term		Short - Term		Technical		Logistic Support		Technical	
	Monthly Total	Total Date	Monthly Total	Total Date	Monthly Total	Total Date	Monthly Total	Total Date	Monthly Total	Total Date	Monthly Total	Total Date	Monthly Total	Total Date
80 ^{3/}	5.39	5.39	-	-	1.61	1.61	-	-	4.26	4.26	6.42	6.42	-	-
80	15.12	20.51	-	-	5.68	7.29	-	-	7.06	11.32	10.00	16.42	-	-
80	18.40	38.91	-	-	6.00	13.29	-	-	9.00	20.32	10.00	26.42	-	-
80	18.84	57.75	0.23	0.23	6.00	19.29	-	-	9.06	29.38	20.90	37.32	0.16	0.16
80	20.00	77.75	-	0.23	6.57	25.86	-	-	10.00	39.38	11.00	48.32	4.20	4.36
80	19.42	97.17	-	0.23	7.00	32.86	-	-	10.00	49.38	11.00	59.32	5.00	9.36
81	18.84	116.01	-	0.23	7.00	39.86	-	-	9.87	59.25	10.77	70.09	5.00	14.36
81	20.00	136.01	-	0.23	7.00	46.86	-	-	10.00	69.25	10.00	80.09	5.00	19.36
81	19.87	155.88	0.03	0.26	7.00	53.86	-	-	10.00	79.25	9.35	89.44	5.00	24.36
81	18.67	174.55	0.53	0.79	7.00	60.86	-	-	10.00	89.25	10.00	99.44	5.00	29.36
81	19.00	193.55	0.77	1.56	7.00	67.86	-	-	10.00	99.25	9.52	108.96	5.00	34.36
81	19.17	212.72	1.00	2.56	7.00	74.86	0.50	0.50	9.90	109.15	10.53	119.49	5.00	39.36
81	18.10	230.82	1.00	3.56	7.00	81.86	1.00	1.50	8.29	117.44	10.52	130.01	5.00	44.36
81	16.77	247.59	0.19	3.75	7.00	88.86	1.00	2.50	8.94	126.38	10.00	140.01	4.81	49.17
81	16.20	263.79	-	3.75	7.00	95.86	1.00	3.50	9.00	135.38	9.50	149.51	5.00	54.17
81	17.91	281.70	0.13	3.88	7.00	102.86	1.00	4.50	9.00	144.38	9.65	159.16	5.00	59.17
81	18.00	299.70	-	3.88	7.00	109.86	1.00	5.50	9.00	153.38	10.00	169.16	5.00	64.17

Does not include travel time to and from Indonesia.

^{3/} July 10-31.

Includes Project Director.

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			
17.	Nov. 1981	5 Dec 81	\$ 72,653.89 ^{1/}			

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	

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			
8.	Feb. 1981	25 Mar. 81	Rp. 7,007,095			
9.	Mar. 1981	30 Apr. 81	Rp. 3,691,671			
10.	Apr. 1981	30 May. 81	Rp. 4,841,175			
11.	May 1981	30 Jun. 81	Rp. 6,490,522			
12.	Jun. 1981	31 Jul. 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			