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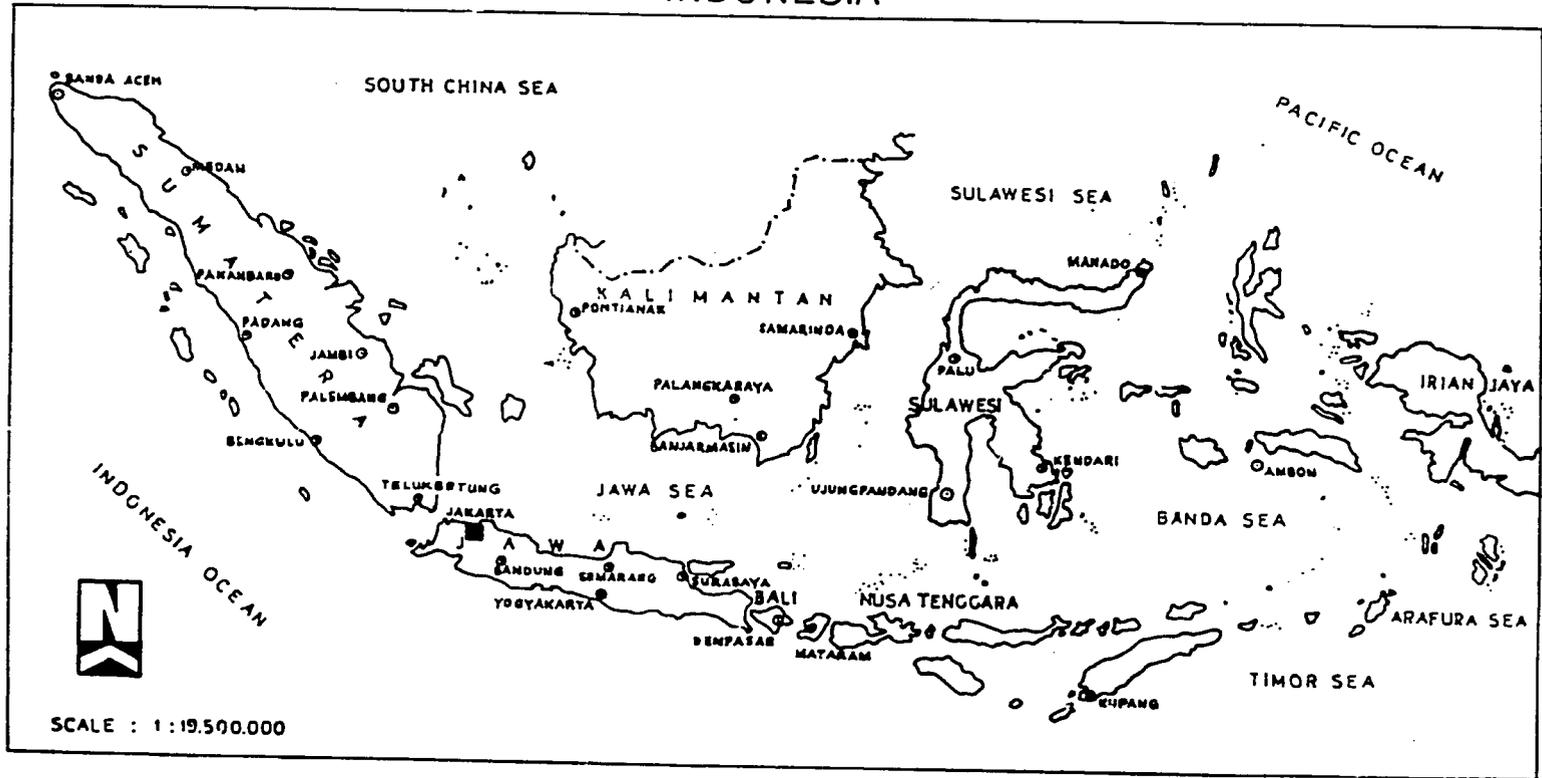
THE UNITED STATES OF AMERICA AGENCY FOR INTERNATIONAL DEVELOPMENT
and
THE DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
of the
MINISTRY OF PUBLIC WORKS
representing
MINISTRY OF PUBLIC WORKS AND THE MINISTRY OF AGRICULTURE
GOVERNMENT OF INDONESIA

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

MONTHLY PROGRESS REPORT NO. 34
FOR PERIOD
APRIL 1, 1983 - APRIL 30, 1983

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

INDONESIA



SCALE : 1:19,500,000

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APPENDIX

"A"	CONSULTANT'S ACTIVITIES
"B"	COUNTERPART PERSONNEL
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I. INTRODUCTION

The Contract between the United States of America, Agency for International Development (USAID) and International Engineering Company, Inc., (IECO) includes technical advisory services for Project No. 497-0252 Sederhana Irrigation and Land Development II. The scope of services is outlined in detail in Appendix A of the Contract. Performance of the work, within the terms of the Contract, is subject to the technical direction of the Government of Indonesia (GOI) through the Ministry of Public Works and the Ministry of Agriculture. Portions of the work, as set forth in the Contract, are subcontracted to 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, 1980. 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. Amendment No. 3, effective July 10, 1982, was signed on November 30, 1982.

This thirty-fourth Monthly Report is submitted in accordance with Appendix A, Article K, Subarticle a of the Contract. It covers major events from April 1, 1983, through April 30, 1983 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 of the Consultants during the report period were concerned with training and assistance to Provincial Public Works staff in office procedures and field inspections for certifications of completed Sederhana Works; field trips to Provincial Public Works offices to assist with certifications; meetings with DGWRD, DGFC and USAID; and preparing reports. Subproject inspections continued by the consultants working with DGFC on the MOA Program.

Meetings were held with Ir. Mamad Ismail, DGWRD; Ms. Nancy Tumavick, Sederhana Project Officer, USAID; and Mr. Lyn Kelley, Contract Officer, USAID, regarding the on-going work program and other contractual matters. Meetings were also held between the Consultants and MOA staff, United Nations FAO staff, Ford Foundation, Department of Home Affairs, Provincial Public Works Staff, and other DGWRD staff in Jakarta and Bandung.

Monthly Report No. 33 and Quarterly Report No. 11 were completed and submitted to USAID, DGWRD and DGFC.

Representatives of Sangkuriang Consultants and I.D. Consultants visited the Consultants offices during the report period.

III. ADMINISTRATIVE MATTERS

Administrative activities for the report period included the completion and submittal of reports; and meetings with DGWRD officials, DGFC officials and USAID officials.

3.1 PERSONNEL

The personnel provided by the Consultants during the report period included 4 IECCO Staff, 1 Sangkuriang Technical Support Staff, 1 I.D. Consultants Technical Support Staff, and 4 Sangkuriang Logistic Support Staff. Counterpart Staff include 5 DGWRD personnel and 4 DGFC personnel. The names and positions of Consultant staff are given in Appendix A and Counterpart staff in Appendix B.

Mr. B.C. Ferguson, Resident Manager/Irrigation Engineer, Mr. C.S.F. Lizardo, Irrigation Engineer, and Ir. A. Afif, Sangkuriang Irrigation Design Engineer, are assigned to work with the DGWRD. Mr. W.J. Schoenleber, Agricultural Coordinator/Land Development Advisor, Mr. R.B. Maza, Water Management Advisor, and Ir. Sidharto, I.D. Consultants Agricultural Engineer, are assigned to work with the DGFC.

3.2 MEETINGS

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

- On April 2, 1983, Mr. B.C. Ferguson, Resident Manager/Irrigation Engineer met with Ir. Mamad Ismail, Chief, Sub-Directorate of Construction Management II, DGWRD, regarding the World Bank First Irrigation Sector Loan, the inspection and certification program by Provincial Public Works Staff, and other matters.
- On April 2, 1983, Mr. R.B. Maza met with Dr. David Robinson, USAID, at the DGFC office, Pasar Minggu, regarding the HPSIS Program and Process Documentation.

- On April 4 and 23, 1983, Mr. B.C. Ferguson met with Ms. Nancy Tumavick, Sederhana Project Officer, USAID, regarding the Project Implementation Letter (PIL) and lists of subprojects eligible for reimbursement.
- On April 4 and 22, Mr. B.C. Ferguson met with Mr. Lyn Kelley, Contracting Officer, USAID, regarding contractual matters.
- On April 5, 1983, Mr. W.J. Schoenleber and Mr. R.B. Maza met with Mr. S. Yunan and Dr. David Robinson at the USAID office regarding the proposed training program for HPSIS.
- On April 6 and 8, 1983, Mr. R.B. Maza and Mr. Sidharto attended a Sub-Directorate of Water Management Staff meeting presided by Mr. Kusnadi. Items discussed were scheduling of the HPSIS Implementation Team meeting, training programs and implementation problems.
- On April 12, 1983. Mr. R.B. Maza attended the HPSIS Implementation Team Central level meeting at the DAAD conference room. Topics discussed included HPSIS/ARP Evaluation results, conducting and scheduling workshop for the Provincial and Kabupaten levels on old HPSIS sites, report of DPU about progress of planning & construction at HPSIS sites, and other miscellaneous items about training programs.
- On April 13, 1983, Mr. R.B. Maza discussed with Mr. S. Yunan, Dr. Effendi Pasandaran & Dr. D. Robinson about the proposed Process Documentation research program and also the problems about the implementation of Process Monitoring.
- On April 18, 1983, Mr. Maza and Mr. Sidharto met with Dr. D. Robinson, USAID, and Dr. Effendi Pasandaran, Mr. S. Yunan, Mr. Daud B., and Mr. Mintoro, DGFC, about the HPSIS Process Documentation proposal.
- On April 21, 1983, Mr. R.B. Maza and Mr. Sidharto met with Dr. D. Robinson, USAID, and the DGFC Process Documentation Team, and discussed the details of the process documentation program including contract procedures, process monitoring and the scheduled HPSIS workshop at the Provincial and Kabupaten level. In the afternoon, Mr. Maza and Mr. Wimson Freddy Purba met with

Dr. Baradas and Dr. Franco, United Nations FAO Experts on hydrometeorological applications to agriculture at the DAAD office. They discussed the possibility of cooperative work where studies on hydrometeorology could be applied to agriculture.

- On April 25, 1983, Mr. B.C. Ferguson met with Mr. Djoko S. Sardjono, DGWRD Foreign Aid Administration Division, regarding Sederhana Subproject data to be provided to Mr. Gunaratnam, World Bank.
- On April 27, 1983, Mr. W.J. Schoenleber met with DAAD Staff concerning the HPSIS training proposal to USAID.
- On April 28, 1983, Mr. B.C. Ferguson and Ir. Abdul Afif, Irrigation Design Engineer, met with Ir. Mohammad Syah, Ir. Soeroto, and Ir. Fritz, Sub-Directorate of Planning and Design staff, in Bandung, regarding subproject implementation guidelines and criteria.
- On April 28, 1983, Mr. W.J. Schoenleber met with Ms. Nancy Tumavick at USAID concerning the Project Implementation Letter (PIL) for training.
- On April 29, 1983, Mr. W.J. Schoenleber met with Mr. Ksnadi concerning the PIL for training.

3.3 REPORTS

The following reports were submitted to DGWRD, DGFC and USAID during the report period:

- Monthly Report No. 33 for period March 1, 1983 to March 31, 1983.
- Quarterly Report No. 11 for period January 1, 1983 to March 31, 1983.

The following reports and materials were submitted to DGFC and USAID during the report period:

- Proposed MOA training programs for IRS II and HPSIS.

The following reports and materials were submitted to DGWRD and USAID during the report period:

- Updated Report on Active Subprojects for Aceh, North Sumatra, West Sumatra, Jambi, Bengkulu, West Java, Central Java, West Kalimantan, Southeast Sulawesi, West Nusa Tenggara and East Nusa Tenggara Provinces.

3.4 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					
	<u>With Active Subprojects</u>		<u>Monitoring Implemented</u>		<u>Monitoring Submitted this Month (March 31)</u>	
	<u>DGWRD</u>	<u>DGFC</u>	<u>DGWRD</u>	<u>DGFC</u>	<u>DGWRD</u>	<u>DGFC</u>
1976/77	0	6	0	6	0	1
1977/78	0	7	0	6	0	1
1978/79	13	7	12	7	0	2
1979/80	22	13	22	13	3	2
1980/81	23	10	23	10	4	1
1981/82	23	23	23	23	5	2
1982/83	23	23	23	0	5	2

The status of the March 31, 1983 monthly monitoring submitted from each Province for each Program Year are presented in Table IV-1 for the DGWRD and V-1 for DGFC.

5 CERTIFICATIONS

Certifications of completed works were submitted to the DGFC during the report period as follows:

- On April 30, 1983, 7 Certifications of Water User Associations and 5 Certifications of Completion of Construction of Tertiary Works were submitted to the DGFC.

Certifications submitted by the Provincial Public Works to DGWRD, Jakarta are shown on Table IV-4. Certifications submitted by DGWRD to USAID during the report period were as follows;

- On March 28, 1983, 1 Certification of Completion of Survey and Design of Tertiary Works and 1 Certification of Completion of Construction of Tertiary Works.
- On April 9, 1983, 1 Certification of Completion of Survey and Design of Tertiary Works and 1 Certification of Completion of Construction of Tertiary Works.
- On April 26, 1983, 1 Certification of Completion of Survey and Design of Tertiary Works and 1 Certification of Completion of Construction of Tertiary Works.
- On April 27, 1983, 1 Certification of Technical Soundness and 1 Certification of Completion of Construction of Major Works.

IV. IRRIGATION ENGINEERING ACTIVITIES

Irrigation Engineering Activities include the activities of the two Irrigation Engineers based in the Jakarta offices of the Directorate General of Water Resources Development (DGWRD), Ministry of Public Works. The activities are divided into Jakarta activities and Provincial Activities.

4.1 JAKARTA ACTIVITIES

The activities of the Consultants in the Jakarta office of the DGWRD include the following:

- Advise and assist in the overall organizing, planning and administering of the Sederhana Irrigation Project including program review and evaluation.
- Advise and assist in coordinating the Sederhana Irrigation Project activities with other GOI implementing agencies, particularly MOA.
- Advise and assist in planning and programming of subprojects, including selection of subprojects for implementation.
- Advise and assist in the review of subproject designs.
- Advise and assist in resolving survey, design and construction problems.
- Advise and assist in the planning of operation and maintenance for major works and tertiary programs.
- Advise and assist in the procurement of goods and services.
- Advise and assist in staff training including course preparation and presentation and transfer of knowledge from the Consultant's Staff to Indonesian technical staff.
- Advise and assist in maintaining program progress control (monitoring) procedures and records.

During the month of March, 1983, the Consultants concentrated on updating the subproject lists for reimbursement from Sederhana II Loan Funds; updating the quarterly report appendix tables; updating the tertiary inventory; updating the Status of Active Subprojects reports; preparation for field trips to Provincial Public Works offices to assist with inspection and certifications; and assisting the DGWRD in training and administrative matters.

4.2 PROVINCIAL ACTIVITIES

The activities of the Consultants in the Provincial Offices of the DGWRD and field include the following:

Assistance to the Public Works staff in the inspection and certification of completed Sederhana Subproject Major Works and Tertiary Works in accordance with acceptable engineering practices and approved guidelines.

- Advise and assist in the review of selected subproject designs of local design contractors.
- Advise and assist in the resolving of special survey, design and construction problems.
- Advise and assist in the planning and execution of operation and maintenance of main and tertiary systems.
- Advise and assist in coordinating with other GOI implementing agencies, particularly Provincial Agricultural Services (DIPERTA).
- Advise and assist in the training of GOI Staff.
- Advise and assist in maintaining progress control (monitoring).

Tables IV-1, IV-2, IV-3 and IV-4 show the Status of the DGWRD Monitoring Program, Subproject Design Reviews, Subproject Inspections and Subproject Certifications, respectively, for the report period. Certifications Submitted after December 31, 1982 are by Provincial Public Works Staff.

From April 4 to 10, 1983, Mr. C.S.F. Lizardo, Irrigation Engineer, visited Aceh Province to assist the Provincial Public Works Staff with inspection and certification for reimbursement. The design and contract documents for 1982/83 Tertiary Works for 1980/81 Subproject Krueng Geupeu (216 ha) were reviewed on April 5 and 7. The subproject was inspected on April 6 and irrigation schematics were updated and certification documents prepared on April 7 and 8. The design and contract documents for Subproject Manggen I & II (867 ha) for 1979/80 and 1980/81 Major Works were reviewed on April 9. Irrigation schematics were updated and a sample certification was prepared. However, no inspection was made of this subproject because construction is not yet complete. The Report on Active Subprojects for Sederhana Subprojects in Aceh Province was updated on April 5, 6 and 8, 1983.

From April 4 to 9, 1983, Mr. Abdul Afif, Irrigation Engineer, visited West Kalimantan Province to assist the Provincial Public Works Staff with inspection and certification for reimbursement. The design review and construction inspection were completed for 1982/83 Tertiary Works for 1980/81 Subprojects Pak Kadu (115 ha) and 1980/81 Major Works for Subproject Selense (281 ha). Both subprojects are not certifiable. A complete schematic is not available and is being prepared by the Provincial Public Works Staff. The Consultant assisted the Provincial Public Works Staff with the preparation of the Certification of Completion of Survey and Design and Certification of Completion of Construction for use at a later date when the subprojects are certifiable.

From April 18 to 23, 1983, Mr. C.S.F. Lizardo, Irrigation Engineer, visited Bengkulu Province to assist the Provincial Public Works Staff with inspection and certification for reimbursement. The design and contract documents for 1978/79 Tertiary Works for 1976/77 Subproject Air Nipis Dataran Rungau (779 ha) were reviewed on April 18. The design and contract documents for Subproject Air Pring Ujan Mas (236 ha) for 1979/80, 1980/81, 1981/82 and 1982/83 Major Works were reviewed on April 21. Irrigation schematics for Subproject Air Nipis Dataran Rungau (Major Works and Tertiary Works) were updated on April 18 and for Subproject Air Pring Ujan Mas on April 21. Field Inspection of Subproject Air Nipis Dataran Rungau was made on April 19 and 20, and of Subproject Air Pring Ujan Mas on April 22. Both subprojects were found complete and functional and the completed Major Works and Tertiary Works are certifiable. The Consultant assisted the Provin-

cial DPU Staff in updating irrigation schematics and in the completion of certification documents for the 2 subprojects on April 21 and 23. Updating of the Report on Active Subprojects for Sederhana Subprojects in Bengkulu Province was also done during these dates.

On April 21 and 23, the Consultant met the Chief of Water Resources, Mr. Sabri Zakaria, BIE; Chief of Tertiary Works and Provincial O & M, Mr. Husaini Nurdin, BE; and Chief for Major Works, Mr. Wahyu; and discussed matters relating to annual O & M, subproject selection, survey and design specifications, construction, monitoring and other program activities. The Consultant provided the DPU Provincial Staff with copies of guidelines and technical papers developed for Sederhana. For the O & M, the Chief of Water Resources agreed to provide budget for one O & M sample subproject as requested by the Chief for Provincial O & M.

From April 18 to 23, 1983, Mr. Abdul Afif, Irrigation Design Engineer, visited Southeast Sulawesi Province to assist the Provincial Public Works Staff with inspection and certification for reimbursement. The construction inspection were completed for 1980/81 Tertiary Works for 1977/78 Subproject Mowila I (152 ha), and construction inspection and design review for 1980/81 Major Works Subproject Moramo I (506 ha). These subprojects are not certifiable because during inspection there was no water in the systems due to the long dry season. Certification may be made when water is flowing in the system. A complete schematic is not available and is being prepared by the Provincial Public Works Staff. The Consultant assisted the Provincial Public Works Staff with the preparation of the Certification of Completion of Survey and Design and Certification of Completion of Construction for use at a later date when the subprojects are certifiable.

TABLE IV - 1
 STATUS OF DGWRD MONITORING PROGRAM
 APRIL, 1983 ^{1/}

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

- designates not required
 NS designates not submitted

^{1/} Monitoring submittal dated 31 March, 1983.

TABLE IV - 2
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT DESIGN REVIEWS
APRIL, 1983

PROVINCE	SUBPROJECT			AREA (HA)		REVIEW STATUS ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG.		
<u>MAJOR WORKS</u>							
Aceh	Manggeng I & II	6-I	79/80	867	867	Completed	Assistance to DPU. Assistance to DPU. Masonry channel, 360 m., connecting water source to free intake.
		7-I	82/83		0	Completed	
Bengkulu	Air Pring Ujan Mas	3-I	78/79	236	236	Completed	Assistance to DPU. High construction cost due to primary canal along hillsides.
West Kalimantan	Selense	1-N	80/81	281	152	Completed	Assistance to DPU.
Southeast Sulawesi	Moramo I	1-N	80/81	506	506	Completed	Assistance to DPU.
<u>TERTIARY WORKS</u>							
Aceh	Krueng Geupeu	1-N	80/81	144	216	Completed	Assistance to DPU. 1982/83 Tertiary Works
Bengkulu	Air Nipis Dataran Rungau	8	76/77	779	792	Completed	Assistance to DPU. 1980/81 Tertiary Works
West Kalimantan	Pak Kadu	2-N	80/81	115	100	Completed	Assistance to DPU. 1982/83 Tertiary Works

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

TABLE IV - 3
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
APRIL, 1983

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE ^{1/}	
MAJOR WORKS								
Aceh	Krueng Geupeu	2-I	82/83	144	0	4/6	Special Purpose	Complete and functional. Improvement of skewed gabion weir, 100 m wide.
Bengkulu	Air Pring Ujan Mas	7-I	79/80 80/81 81/82 82/83	236	236 0 0 0	4/22	Certification	Certifiable. High construction cost due to primary canal of 1.6 km. running along hillsides and rock excavation at some portions of canal.
	Air Nipis Dataran Rungau	-	-	779	0	4/9	Special Purpose	Supply structure for 586 ha below BDR5 should be improved.
West Kalimantan	Selense	1-N	80/81	281	152	3/7	Certification	Not certifiable. Need improvement for canal.
South East Sulawesi	Moramo I	1-N	80/81	506	506	4/20	Certification	Not certifiable. During inspection time no water on the system due to the long dry season, 8 months. Reconsideration will be made during the wet season. Need canal improvement and protection on the unstable area.
TERTIARY WORKS								
Aceh	Krueng Geupeu	1-N	80/81	144	193	4/6	Certification	Certifiable. Completely irrigated rice field. 1982/83 DPU Program. Tertiary canals for 23 ha by farmers.
Bengkulu	Air Nipis Dataran Rungau	8	76/77	779	427	4/19 8/20	Certification	Certifiable. Farmers grow 2 crops on about 500 ha of riceland and 1 crop on remaining area. 1978/79 DPU Program. Construction was done in 1981/82 Program Year.

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

TABLE IV - 3
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT INSPECTIONS
APRIL, 1983

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG	DATE	PURPOSE <u>1/</u>	
<u>TERTIARY WORKS (CONT'D)</u>								
West Kalimantan	Pak Kadu	2-N	80/81	115	100	3/5	Certification	Not certifiable. 1982/83 Tertiary Works. Need improvement for canal. Not certifiable. During inspection time no water on th system due to the long dry season, 8 months. Reconsideration will be made during the wet season.
Southeast Sulawesi	Mowila I	-	77/78	452	152	4/19	Certification	

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

TABLE IV - 4
IRRIGATION ENGINEERING ACTIVITIES
SUB-PROJECT CERTIFICATIONS
APRIL, 1983

PROVINCE	SUBPROJECT			AREA (HA)		TYPE OF CERTIFICATION ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
MAJOR WORKS							
Jambi	Sei Bukit Sembahyang	7-N 1-I	79/80 80/81 82/83	296	296 0 0	TSC & CCC TSC & CCC TSC & CCC	Certification by Prov. Public Works.
Central Java	Cijambe	9-N	80/81	258	258	TSC & CCC	Certification by Prov. Public Works.
TERTIARY WORKS							
Aceh	Krueng Geupeu	1	80/81	216	193	CDS & CCC	Certification by Prov. Public Works. 1982/83 Tertiary Works.
North Sumatra	Semangat Baris	1	79/80	230	48	CDS & CCC	Certification by Prov. Public Works. 1982/83 Tertiary Works.
Jambi	Sei Dusun Baru	6	79/80	164	164	CDS & CCC	Certification by Prov. Public Works. 1982/83 Tertiary Works.
Central Java	D.I. Silawang	2	76/77	353	350	CDS & CCC	Certification by Prov. Public Works. 1981/82 Tertiary Works.

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

V. AGRICULTURAL ACTIVITIES

The agricultural activities include the activities of the Land Development Advisor and Water Management Advisor in the Jakarta (Pasar Minggu) office of the Directorate General of Food Crops (DGFC), Ministry of Agriculture. The activities are divided into Jakarta activities and Provincial activities.

5.1 JAKARTA ACTIVITIES

During the period the Consultants provided advice to MOA staff on the HPSIS program implementation and in planning the implementation of local and overseas training programs.

5.2 PROVINCIAL ACTIVITIES

The activities of the Consultants at the office of the Provincial Agricultural Services (PAS/DIPERTA) included the following:

- On April 2, 1983, Mr. W.J. Schoenleber visited the Bandung Provincial office to discuss HPSIS site maps for Caumanggala.
- From April 24 to May 1, 1983, Mr. R.B. Maza and Mr. Sidharto visited South Kalimantan Province where they advised the Provincial Agricultural Service (PAS) about strengthening Water User Associations and irrigation water management procedures in IRS projects. They also visited several subprojects for certification of tertiary works and water user associations.

TABLE V - 1
 STATUS OF DGFC MONITORING PROGRAM
 APRIL, 1983 ^{1/}

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

- designates not required
 NS designates not submitted

^{1/} Monitoring submitted March 31, 1983

TABLE V - 2
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT DESIGN REVIEWS
 APRIL , 1983

PROVINCE	SUBPROJECT			AREA (HA)		REVIEW STATUS ^{1/}	COMMENTS
	NAME	NO.	YEAR	TOTAL	IRRIG.		
None during this report period.							

- 19 -

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

TABLE V - 1
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT INSPECTIONS
 APRIL, 1983

PROVINCE	SUBPROJECT			AREA (HA)		INSPECTION		COMMENTS ^{2/}
	NAME	NO.	YEAR	TOTAL	IRRIG.	DATE	PURPOSE ^{1/}	
South Kalimantan	Lok Limau	1	76/77	380	15	4/25	Certification	Not certifiable. Undeveloped paddy fields.
	Mandila	5	76/77	176	31	4/25	Certification	Not certifiable. Undeveloped paddy fields.
	Langsat Besar	1	77/78	150	102	4/25	Certification	WUA certifiable, tertiary construction certifiable.
	Sei Lurus	3	76/77	220	10	4/26	Certification	WUA certifiable, tertiary construction not certifiable.
	Kalang Kala	5	75/76	144	2	4/26	Certification	WUA certifiable, tertiary construction not certifiable. No paddy field.
	Sungkai	1	75/76	108	5	4/26	Certification	WUA certifiable, tertiary construction not certifiable. No paddy field.
	Pulau Pinang	1	81/82	285	200	4/26	Special Purpose	
	Tundakan	3	75/76	195	95	4/26	Certification	WUA certifiable, tertiary construction certifiable.
	Sei Jayau	4	76/77	161	161	4/27	Certification	Tertiary construction not certifiable.
	Liang Anggang	4	77/78	2108	562	4/27	Certification	Tertiary construction certifiable.
	Antasan Tanipah	11	76/77	5450	1000	4/28	Certification	Tertiary construction certifiable.
	Sej Landung	12	76/77	518	500	4/28	Certification	WUA certifiable, tertiary construction certifiable.

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

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

TABLE V - 4
 AGRICULTURAL ACTIVITIES
 SUB-PROJECT CERTIFICATIONS
 APRIL, 1983

PROVINCE	SUB-PROJECT			AREA (HA)		TYPE OF ^{1/} CERTIFICATION	COMMENTS
	NAME	NO.	YEAR	TOTAL	CERTIFIED		
South Kalimantan	Sungkai	1	75/76	108	108	WUA	
	Tundakan	3	75/76	195	195	WUA & CCC	
	Sei Paring	4	75/76	76	76	WUA	
	Kalang Kala	5	75/76	144	144	WUA	
	Sei Lurus	3	76/77	220	220	WUA	
	Antasan Tanipah	11	76/77	5450	1000	CCC	
	Sei Landung	12	76/77	500	500	WUA & CCC	
	Sei Langsung Besar	1	77/78	150	150	WUA & CCC	
	Liang Anggang	4	77/78	2108	562	CCC	

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

CONSULTANTS PERSONNEL IN INDONESIA

<u>Name</u>	<u>Classification</u>	<u>Location</u>	<u>Arrival Date</u>	<u>Departure Date</u>
<u>EXPATRIATE PERSONNEL - IECO</u>				
<u>Long-Term Personnel</u>				
C.E. Aksamit	Resident Manager	Jakarta	10 Jul 80	9 Jul 82
M.A.E. Adams	Area Engineer	Jakarta	10 Jul 80	27 Mar 81
R.E. Dixon	Area Engineer	Jakarta	10 Jul 80	9 Jul 82
J.H. Cloward	Irrig. Design Engr.	Bandung	10 Jul 80	16 Jun 81
D.W. Holloway	Prov. Irrig. Engr.	Telukbetung	10 Jul 80	9 Jul 82
J.D. Sabiniano	Irrig. Design Engr.	Jakarta	10 Jul 80	12 Jun 82
R.T. Edwards	Agri. Coordinator	Jakarta	14 Jul 80	9 Jul 82
B.C. Ferguson	Resident Manager/Irr.Engr. ^{1/}	Jakarta	20 Jul 80	
M.C. Christensen	Prov. Irrig. Engr.	Bandung	21 Jul 80	8 Jul 82
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	8 Jul 82
C.S.F. Lizardo	Irrig. Engr. ^{2/}	Jakarta	31 Jul 80	
R.S.F. Lizardo	Prov. Irrig. Engr.	Padang	31 Jul 80	9 Jul 82
F.B. Regonas	Prov. Irrig. Engr.	Manado	31 Jul 80	8 Jul 82
S.D. Scully	Agriculturist	U. Pandang	6 Aug 80	7 Jul 82
W.J. Schoenleber	Ag. Coord./Land Dev. Adv. ^{3/}	Jakarta	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	6 Jul 82
R.B. Maza	Water Management Adv. ^{4/}	Jakarta	16 Sep 80	
J.A. Erickson	Area Engineer	Jakarta	11 Jun 81	29 Jun 82
R.P. Miras	Agriculturist	Palembang	25 Sep 81	9 Jul 82
M.J. Crawford	Prov. Irrig. Engr.	Palembang	4 Oct 81	9 Jul 82
<u>Short-Term Personnel</u>				
H.R. Causing	Project Director	Jakarta	20 Oct 80	25 Oct 80
			1 Apr 81	7 Apr 81
			6 Oct 81	9 Oct 81
			9 Feb 82	17 Feb 82
			22 Jun 82	7 Jul 82
			8 Aug 82	16 Aug 82
T.K. Bateman	Chief, Irr. & Land Rec.	Jakarta	31 Mar 81	9 Apr 81
W.B. Walters	Off. Mgt. & Doc. Spec.	Jakarta	8 May 81	6 Aug 81
O. Hougan	Chief, Water Res.	Jakarta	9 Feb 82	18 Feb 82
C.E. Aksamit	Area Representative	Jakarta	10 Jul 82	9 Aug 82
			9 Mar 83	23 Mar 83

Notes:

- 1/ Formerly Asst. Res. Mgr. (20 Jul 80 - 9 Jul 82)
 2/ Formerly Prov. Irrig. Engr. in Medan (31 Jul 80 - 9 Jul 82)
 3/ Formerly Agricultural Engr. in Bandung (8 Aug 80 - 9 Jul 82)
 4/ Formerly Agricultural Engr. in Telukbetung (16 Sep 80 - 9 Jul 82)

<u>Name</u>	<u>Classification</u>	<u>Location</u>	<u>Arrival Date</u>	<u>Departure Date</u>
<u>EXPATRIATE PERSONNEL - SINOTECH</u>				
<u>Long-Term Personnel</u>				
J.Y. Hsu	Water User Assn. Advisor	Jakarta	10 Jul 80	2 Jul 82
A.H. Lo	Agricultural Engr.	Palembang	10 Jul 80	5 Jul 82
H.Y. Huang	Agricultural Engr.	Mataram	30 Jul 80	9 Jul 82
C.W. Shih	Agricultural Engr.	Medan	30 Jul 80	9 Jul 82
C.C. Tai	Agricultural Engr.	Ujung Pandang	30 Jul 80	8 Jul 82
S.M. Lee	Land Development Engr.	Jakarta	11 Aug 80	9 Jul 82
K.F. Jeng	Agricultural Engr.	Manado	14 Nov 80	9 Jul 82
<u>Short-Term Personnel</u>				
I.H. Lee	Water Manag. Specialist	Jakarta	16 Jun 81	31 Dec 81
<u>INDONESIAN PERSONNEL - SANGKURIANG</u>				
<u>Technical Personnel</u>				
Ir. A. Afif	Irrig. Design Engr.	Jakarta	10 Jul 80	
Ir. H. Gunawan	Irrig. Engineer	Jakarta	10 Jul 80	15 May 82
Ir. A.B. Lambe	Irrig. Engineer	Jakarta	10 Jul 80	31 Dec 82
Ir.D.Pratanata	Irrig. Design Engr.	Bandung	10 Jul 80	9 Jul 82
Ir.A.Hananto	Irrig. Design Engr.	Bandung	10 Jul 80	27 Jun 82
Ir.Prijanto S.	Agriculturist	Ujung Pandang	10 Jul 80	9 Jul 82
Ir. Basril F.	Agriculturist	Bandung	19 Aug 80	9 Jul 82
Ir. Abdurrachim	Agriculturist	Telukbetung	19 Aug 80	9 Jul 82
Ir. Sumarna	Agriculturist	Medan	25 Aug 80	9 Jul 82
Ir. Hilmar H.	Agriculturist	Palembang	20 Oct 80	9 Jul 82
Mr. Wahyu A.	Irrig. Engineer	Jakarta	5 Jan 81	31 Mar 82
Ir. Irdam Adil	Irrig. Design Engr.	Jakarta	3 Aug 81	9 Jul 82

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

Logistic Support Personnel

Abubakar S.	Administ. Officer	Jakarta	10 Jul 80	24 Jan 81
R.M. Bachrawi	Head Accountant	Jakarta	10 Jul 80	
Glempo S.	Office Mngr./Expdt.	Jakarta	10 Jul 80	9 Jul 82
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
Hartaty Oemar	Secretary/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	9 Jul 82
Anizar M.	Secretary/Typist	Jakarta	1 Jun 81	10 Jul 82
Sondang T.	Clerk/Typist	Jakarta	15 Jun 81	15 Sep 81
Ernina D.	Clerk/Typist	Jakarta	12 Oct 81	9 Jul 82
Agus Salim L.	Accountant	Jakarta	1 Oct 81	9 Jul 82
Herlina P. Dewi	Clerk/Typist	Jakarta	25 Jan 82	4 Sep 82

INDONESIAN PERSONNEL - INDRA DEVELOPMENT

Ir. I. Mustari	Agricultural Engr.	Jakarta	27 Oct 80	7 Jul 82
Ir. T. Soegianto	Agricultural Engr.	Surabaya	1 Nov 80	3 Aug 81
Ir. H.F. Siwy	Agricultural Engr.	Manado	21 Nov 80	9 Jul 82
Ir. H. Noer	Agricultural Engr.	Palembang	5 Nov 80	9 Jul 82
Ir. Sidharto	Agricultural Engr ^{1/}	Jakarta	1 Nov 80	
Mr. M. Dardjoko	Agricultural Engr.	Mataram	10 Aug 81	9 Jul 82

1/ Formerly Agricultural Engineer in Ujung Pandang (1 Nov. 80 - 9 Jul 82)

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

Sujatno BE	- Banda Aceh	R. Nurcahyo W.BE	- Pontianak
P. Sirait BIE	- Medan	Ir. Berti	- Palangkaraya
Syaifullah Anwar BIE	- Padang	Ir. Suprpto	- Banjarmasin
Ir. Bakri	- Pekanbaru	M. Sarbani BIE	- Samarinda
Dadang Sutarja BIE	- Jambi	R. Suatmadja BIE	- Manado
Ngarim BSE	- Palembang	Ir. Simbolon	- Palu
Pudi Hartono BIE	- Teluk Betung	Ir. Yantahin)	- U. Pandang
Ir. Wahyu	- Bengkulu	Enos Konda BIE)	
Ir. Dasuta K	- Bandung	S. Nuryadi BIE)	- Kendari
Ir. Subekti K.	- Semarang	Asnawi Sukirno BIE)	
Sutandiyono BIE	- Yogyakarta	Agus BIE	- Mataram
Ir. Sudarsono	- Surabaya	Drs. D. Hariandja)	- Kupang
		Bambang S. BE)	
		Djumintar Haro BE	- Ternate

DGFC PERSONNEL

Ir. Otje S.R. Bratamidjaja	- Chief of Sub Dir. of Land Development
Ir. Kusnadi Affandi	- Chief of Sub Dir. of Water Management
Mr. Syakhrum Yunan	- Administrator of Foreign Aid
Ir. Tangkas P.	- Consultants' Co terpart

PROVINCIAL AGRICULTURAL SERVICES - REGIONAL COUNTERPARTS

Ir. S.T.M. Sihaloho	- Medan
Ir. A.R. Ridwan	- Palembang
Ir. Sawadi Tjon	- Teluk Betung
Ir. Sulaeman N.	- Bandung
Ir. Slamet Sardjito	- Mataram
Ir. Maengkon	- Manado
Ir. D. Parrusengi	- Ujung Pandang
Ir. Syahrudin Saleh	- Ujung Pandang

EXPENSES

MONTH	LONG TERM		SHORT TERM		HOME OFFICE		TOTAL		DISALLOWED BY CLIENT		UNEXPENDED
	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	REINSTATED (+)	BALANCE TO DATE						
Jul 80	4.23	4.23	-	-	-	-	4.23	4.23	-	-	477.27
Aug 80	13.65	17.88	-	-	0.22	0.22	13.87	18.10	-	-	463.40
Sep 80	18.19	36.07	-	-	0.02	0.24	18.21	36.31	-	-	445.19
Oct 80	18.93	55.00	-	-	0.26	0.50	19.19	55.50	-	-	426.00
Nov 80	19.87	74.87	-	-	0.07	0.57	19.94	75.44	-	-	406.06
Dec 80	19.83	94.70	-	-	0.03	0.60	19.86	95.30	-	-	386.20
Jan 81	18.55	113.25	-	-	0.28	0.88	18.83	114.13	-	-	367.37
Feb 81	19.71	132.96	-	-	0.15	1.03	19.86	133.99	-	-	347.51
Mar 81	19.64	152.60	-	-	0.11	1.14	19.75	153.74	-	-	327.76
Apr 81	18.97	171.57	-	-	0.72	1.86	19.69	173.43	-	-	308.07
May 81	18.43	190.00	0.63	0.63	0.42	2.28	19.48	192.91	-	-	288.59
Jun 81	18.16	208.16	1.00	1.63	0.12	2.40	19.28	212.19	-	-	269.31
Jul 81	15.87	224.03	1.00	2.63	0.24	2.64	17.11	229.30	-	-	252.20
Aug 81	14.48	238.51	0.42	3.05	0.51	3.15	15.41	244.71	-	-	236.79
Sep 81	15.23	253.74	-	3.05	0.16	3.31	15.39	260.10	-	-	221.40
Oct 81	17.50	271.24	-	3.05	0.05	3.36	17.55	277.65	-	-	203.85
Nov 81	17.39	288.63	-	3.05	0.04	3.40	17.43	295.08	-	-	186.42
Dec 81	15.53	304.16	-	3.05	0.04	3.44	15.57	310.65	-	-	170.85
Jan 82	14.58	318.74	-	3.05	0.05	3.49	14.63	325.28	-	-	156.22
Feb 82	16.61	335.35	-	3.05	0.65	4.14	17.26	342.54	-	-	138.96
Mar 82	17.20	352.55	-	3.05	0.07	4.21	17.27	359.81	-	-	121.69
Apr 82	17.70	370.25	-	3.05	0.12	4.33	17.82	377.63	-	-	103.87
May 82	18.00	388.25	-	3.05	0.08	4.41	18.08	395.71	-	-	85.79
Jun 82	17.55	405.80	-	3.05	0.34	4.75	17.89	413.60	-	-	67.90
Jul 82	10.37	416.17	-	3.05	0.16	4.91	10.53	424.13	-	-	57.37
Aug 82	4.45	420.62	-	3.05	0.05	4.96	4.50	428.63	-	-	52.87
Sep 82	4.00	424.62	-	3.05	0.03	4.99	4.03	432.66	-	-	48.84
Oct 82	3.80	428.42	-	3.05	0.05	5.04	3.85	436.51	-	-	44.99
Nov 82	3.87	432.29	-	3.05	0.07	5.11	3.94	440.45	-	-	41.05
Dec 82	3.83	436.12	-	3.05	0.09	5.20	3.92	444.37	-	-	37.13
Jan 83	3.39	439.51	-	3.05	0.09	5.29	3.48	447.85	-	-	33.65
Feb 83	4.00	443.51	-	3.05	0.13	5.42	4.13	451.98	-	-	29.52
Mar 83	4.00	447.51	-	3.05	0.17	5.59	4.17	456.15	-	-	25.35
Apr 83	4.00	451.51	-	3.05	-	5.59	4.00	460.15	-	-	21.35
May 83											
Jun 83											
Jul 83											
Aug 83											
CONTRACT ALLOWANCES	---	446.50	---	25.00	---	10.00	---	481.50	---	---	

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

MONTH	LONG TERM		SHORT TERM		HOME OFFICE		TOTAL		DISALLOWED BY CLIENT		UNEXPENDED
	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	REINSTATED (+)	BALANCE TO DATE						
Jul 80	1.16	1.16	-	-	0.21	0.21	1.37	1.37	-	-	187.63
Aug 80	5.25	6.41	-	-	0.21	0.42	5.46	6.83	-	-	182.17
Sep 80	6.00	12.41	-	-	0.21	0.63	6.21	13.04	-	-	175.96
Oct 80	6.00	18.41	-	-	0.21	0.84	6.21	19.25	-	-	169.75
Nov 80	6.57	24.98	-	-	0.21	1.05	6.78	26.03	-	-	162.97
Dec 80	7.00	31.98	-	-	0.21	1.26	7.21	33.24	-	-	155.76
Jan 81	7.00	38.98	-	-	0.21	1.47	7.21	40.45	-	-	148.25
Feb 81	7.00	45.98	-	-	0.21	1.68	7.21	47.65	-	-	141.35
Mar 81	7.00	52.98	-	-	0.21	1.89	7.21	54.87	-	-	134.13
Apr 81	7.00	59.98	-	-	0.21	2.10	7.21	62.08	-	-	126.92
May 81	7.00	66.98	-	-	0.21	2.31	7.21	69.29	-	-	119.71
Jun 81	7.00	73.98	0.50	0.50	0.21	2.52	7.71	77.00	-	-	112.00
Jul 81	7.00	80.98	1.00	1.50	0.21	2.73	8.21	85.21	-	-	103.79
Aug 81	6.81	87.79	1.00	2.50	0.21	2.94	8.02	93.23	-	-	95.77
Sep 81	7.00	94.79	1.00	3.50	0.21	3.15	8.21	101.44	-	-	87.56
Oct 81	7.00	101.79	1.00	4.50	0.21	3.36	8.21	109.65	-	-	79.35
Nov 81	7.00	108.79	1.00	5.50	0.21	3.57	8.21	117.86	-	-	71.14
Dec 81	7.00	115.79	1.00	6.50	0.21	3.78	8.21	126.07	-	-	62.93
Jan 82	6.94	122.73	-	6.50	0.52	4.30	7.46	133.53	-	-	55.47
Feb 82	7.00	129.73	-	6.50	0.21	4.51	7.21	140.74	-	-	48.26
Mar 82	7.00	136.73	-	6.50	0.21	4.72	7.21	147.95	-	-	41.05
Apr 82	7.00	143.73	-	6.50	0.21	4.93	7.21	155.16	-	-	33.84
May 82	7.00	150.73	-	6.50	0.21	5.14	7.21	162.37	-	-	26.63
Jun 82	7.00	157.73	-	6.50	0.21	5.35	7.21	169.58	-	-	19.42
Jul 82	5.53	163.26	-	6.50	0.17	5.52	5.70	175.28	-	-	13.72
CONTRACT ALLOWANCES	----	164.00	----	25.00	---	----	----	189.00	-	-	----

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

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MONTH	LONG TERM		SHORT TERM		HOME OFFICE		TOTAL		DISALLOWED BY CLIENT		UNEXPENDED BALANCE TO DATE
	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	REINSTATED (+)							
Jul 80	3.84	3.84	-	-	-	-	3.84	3.84	-	-	208.66
Aug 80	7.06	10.90	-	-	-	-	7.06	10.90	-	-	201.60
Sep 80	9.00	19.90	-	-	-	-	9.00	19.90	-	-	192.60
Oct 80	9.10	29.00	-	-	-	-	9.10	29.00	-	-	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	96.68	-	-	-	-	10.00	98.68	-	-	113.82
Jun 81	9.90	108.58	-	-	-	-	9.90	108.58	-	-	103.92
Jul 81	8.29	116.87	-	-	-	-	8.29	116.87	-	-	95.63
Aug 81	8.94	125.81	-	-	-	-	8.94	125.81	-	-	86.69
Sep 81	9.00	134.81	-	-	-	-	9.00	134.81	-	-	77.69
Oct 81	9.00	143.81	-	-	-	-	9.00	143.81	-	-	68.69
Nov 81	9.00	152.81	-	-	-	-	9.00	152.81	-	-	59.69
Dec 81	9.00	161.81	-	-	-	-	9.00	161.81	-	-	50.69
Jan 82	9.00	170.81	-	-	-	-	9.00	170.81	-	-	41.69
Feb 82	9.00	179.81	-	-	-	-	9.00	179.81	-	-	32.69
Mar 82	9.00	188.81	-	-	-	-	9.00	188.81	-	-	23.69
Apr 82	8.00	196.81	-	-	-	-	8.00	196.81	-	-	15.69
May 82	7.48	204.29	-	-	-	-	7.48	204.29	-	-	8.21
Jun 82	7.00	211.29	-	-	-	-	7.00	211.29	-	-	1.21
Jul 82	2.74	214.03	-	-	-	-	2.74	214.03	-	-	(1.53)
Aug 82	1.00	215.03	-	-	-	-	1.00	215.03	-	-	(2.53)
Sep 82	1.00	216.03	-	-	-	-	1.00	216.03	-	-	(3.53)
Oct 82	1.00	217.03	-	-	-	-	1.00	217.03	-	-	(4.53)
Nov 82	1.00	218.03	-	-	-	-	1.00	218.03	-	-	(5.53)
Dec 82	1.00	219.03	-	-	-	-	1.00	219.03	-	-	(6.53)
Jan 83	1.00	220.03	-	-	-	-	1.00	220.03	-	-	(7.53)
Feb 83	1.00	221.03	-	-	-	-	1.00	221.03	-	-	(8.53)
Mar 83	1.00	222.03	-	-	-	-	1.00	222.03	-	-	(9.53)
Apr 83	1.00	223.03	-	-	-	-	1.00	223.03	-	-	(10.53)
May 83											
Jun 83											
Jul 83											
Aug 83											
CONTRACT ALLOWANCES	---	212.50	---	---	---	---	---	212.50	---	---	---

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Best Available Document

MONTH	LONG TERM		SHORT TERM		HOME OFFICE		TRIP		DISALLOWED BY CLIENT		UNREPAID BALANCE TO DATE
	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	REINSTATED (+)							
Jul 80	6.42	6.42	-	-	-	-	6.42	6.42	-	-	221.58
Aug 80	10.00	16.42	-	-	-	-	10.00	16.42	-	-	211.58
Sep 80	10.00	26.42	-	-	-	-	10.00	26.42	-	-	201.58
Oct 80	10.90	37.32	-	-	-	-	10.90	37.32	-	-	190.68
Nov 80	11.00	48.32	-	-	-	-	11.00	48.32	-	-	179.68
Dec 80	11.00	59.32	-	-	-	-	11.00	59.32	-	-	168.68
Jan 81	10.77	70.09	-	-	-	-	10.77	70.09	-	-	157.91
Feb 81	10.00	80.09	-	-	-	-	10.00	80.09	-	-	147.91
Mar 81	9.35	89.44	-	-	-	-	9.35	89.44	-	-	138.56
Apr 81	10.00	99.44	-	-	-	-	10.00	99.44	-	-	128.56
May 81	9.52	108.96	-	-	-	-	9.52	108.96	-	-	119.04
Jun 81	10.47	119.43	-	-	-	-	10.47	119.43	-	-	108.57
Jul 81	10.55	129.98	-	-	-	-	10.55	129.98	-	-	98.02
Aug 81	9.81	139.79	-	-	-	-	9.81	139.79	-	-	88.21
Sep 81	8.37	148.16	-	-	-	-	8.37	148.16	-	-	79.84
Oct 81	9.26	157.42	-	-	-	-	9.26	157.42	-	-	70.58
Nov 81	9.90	167.32	-	-	-	-	9.90	167.32	-	-	60.68
Dec 81	9.58	176.90	-	-	-	-	9.58	176.90	-	-	51.10
Jan 82	9.03	185.93	-	-	-	-	9.03	185.93	-	-	42.17
Feb 82	9.89	195.82	-	-	-	-	9.89	195.82	-	-	32.18
Mar 82	10.00	205.82	-	-	-	-	10.00	205.82	-	-	22.18
Apr 82	10.00	215.82	-	-	-	-	10.00	215.82	-	-	12.18
May 82	9.84	225.66	-	-	-	-	9.84	225.66	-	-	2.34
Jun 82	10.00	235.66	-	-	-	-	10.00	235.66	-	-	(7.66)
Jul 82	6.55	242.11	-	-	-	-	6.55	242.11	-	-	(14.11)
Aug 82	5.00	247.11	-	-	-	-	5.00	247.11	-	-	(19.11)
Sep 82	4.13	251.24	-	-	-	-	4.13	251.24	-	-	(23.24)
Oct 82	4.00	255.24	-	-	-	-	4.00	255.24	-	-	(27.24)
Nov 82	4.00	259.24	-	-	-	-	4.00	259.24	-	-	(31.24)
Dec 82	4.00	263.24	-	-	-	-	4.00	263.24	-	-	(35.24)
Jan 83	4.00	267.24	-	-	-	-	4.00	267.24	-	-	(39.24)
Feb 83	4.00	271.24	-	-	-	-	4.00	271.24	-	-	(43.24)
Mar 83	4.00	275.24	-	-	-	-	4.00	275.24	-	-	(47.24)
Apr 83	4.00	279.24	-	-	-	-	4.00	279.24	-	-	(51.24)
May 83											
Jun 83											
Jul 83											
Aug 83											
CONTRACT ALLOWANCES	---	228.00	---	---	---	---	---	228.00	---	---	---

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INDRA DEVELOPMENT PROJECT II
MONTHLY EXPENDITURES: INDRA DEVELOPMENT

MONTH	LONG TERM		SHORT TERM		HOME OFFICE		TOTAL		DISALLOWED BY CLIENT		UNEXPENDED BALANCE TO DATE
	MONTH TOTAL	TOTAL TO DATE	DISALLOWED (-)	RE INSTALLED (+)							
Jul 80	-	-	-	-	-	-	-	-	-	-	-
Aug 80	-	-	-	-	-	-	-	-	-	-	-
Sep 80	-	-	-	-	-	-	-	-	-	-	-
Oct 80	0.16	0.16	-	-	-	-	0.16	0.16	-	-	102.36
Nov 80	4.20	4.36	-	-	-	-	4.20	4.36	-	-	98.14
Dec 80	5.00	9.36	-	-	-	-	5.00	9.36	-	-	93.14
Jan 81	5.00	14.36	-	-	-	-	5.00	14.36	-	-	88.14
Feb 81	5.00	19.36	-	-	-	-	5.00	19.36	-	-	83.14
Mar 81	5.00	24.36	-	-	-	-	5.00	24.36	-	-	78.14
Apr 81	5.00	29.36	-	-	-	-	5.00	29.36	-	-	73.14
May 81	5.00	34.36	-	-	-	-	5.00	34.36	-	-	68.14
Jun 81	5.00	39.36	-	-	-	-	5.00	39.36	-	-	63.14
Jul 81	5.00	44.36	-	-	-	-	4.71	44.36	-	-	58.14
Aug 81	4.71	49.07	-	-	-	-	5.00	49.07	-	-	53.43
Sep 81	5.00	54.07	-	-	-	-	5.00	54.07	-	-	48.43
Oct 81	5.00	59.07	-	-	-	-	5.00	59.07	-	-	43.43
Nov 81	5.00	64.07	-	-	-	-	5.00	64.07	-	-	38.43
Dec 81	5.00	69.07	-	-	-	-	5.00	69.07	-	-	33.43
Jan 82	5.00	74.07	-	-	-	-	5.00	74.07	-	-	28.43
Feb 82	5.00	79.07	-	-	-	-	5.00	79.07	-	-	23.43
Mar 82	5.00	84.07	-	-	-	-	5.00	84.07	-	-	18.43
Apr 82	5.00	89.07	-	-	-	-	5.00	89.07	-	-	13.43
May 82	5.00	94.07	-	-	-	-	5.00	94.07	-	-	8.43
Jun 82	5.00	99.07	-	-	-	-	5.00	99.07	-	-	3.43
Jul 82	1.39	100.46	-	-	-	-	1.39	100.46	-	-	2.04
Aug 82	0.68	101.14	-	-	-	-	0.68	101.14	-	-	1.36
Sep 82	1.00	102.14	-	-	-	-	1.00	102.14	-	-	0.36
Oct 82	1.00	103.14	-	-	-	-	1.00	103.14	-	-	(0.64)
Nov 82	1.00	104.14	-	-	-	-	1.00	104.14	-	-	(1.64)
Dec 82	1.00	105.14	-	-	-	-	1.00	105.14	-	-	(2.64)
Jan 83	1.00	106.14	-	-	-	-	1.00	106.14	-	-	(3.64)
Feb 83	1.00	107.14	-	-	-	-	1.00	107.14	-	-	(4.64)
Mar 83	1.00	108.14	-	-	-	-	1.00	108.14	-	-	(5.64)
Apr 83	1.00	109.14	-	-	-	-	1.00	109.14	-	-	(6.64)
May 83											
Jun 83											
Jul 83											
Aug 83											
CONTRACT ALLOWANCES	---	102.50	---	---	---	---	---	102.50	---	---	---

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BILL NO.	MONTH	SUBMITTED		APPROVED		REMARKS
		Date	Amount	Date	Amount	
1.	Jul. 1980	17 Oct 80	\$ 79,257.07	16 Jan 81	\$ 79,257.07	
2.	Aug. 1980	29 Oct 80	\$ 324,725.38	16 Jan 81	\$ 324,725.38	
3.	Sep. 1980	7 Nov 80	\$ 428,595.89	16 Jan 81	\$ 426,053.47	
4.	Oct. 1980	12 Dec 80	\$ 299,627.77	16 Jan 81	\$ 299,627.77	
5.	Nov. 1980	17 Jan 81	\$ 275,227.52	29 Jan 81	\$ 275,227.52	
6.	Dec. 1980	27 Feb 81	\$ 242,419.80	14 May 81	\$ 241,300.91	
7.	Jan. 1981	14 Mar 81	\$ 225,141.43	14 May 81	\$ 224,180.98	
8.	Feb. 1981	31 Mar 81	\$ 234,185.54	14 May 81	\$ 234,000.57	
9.	Mar. 1981	30 Apr 81	\$ 213,138.88	29 May 81	\$ 212,313.12	
10.	Apr. 1981	30 May 81	\$ 213,174.67	17 Jun 81	\$ 213,174.67	
11.	May 1981	30 Jun 81	\$ 217,020.30	29 Jul 81	\$ 217,020.30	
12.	Jun 1981	31 Jul 81	\$ 255,698.60	17 Sep 81	\$ 254,834.27	
13.	Jul 1981	31 Aug 81	\$ 250,735.97	24 Sep 81	\$ 250,715.32	
14.	Aug. 1981	30 Sep 81	\$ 243,606.10	22 Oct 81	\$ 240,107.56	
15.	Sep. 1981	21 Nov 81	\$ 264,435.79	21 Nov 81	\$ 263,018.35	
16.	Oct. 1981	26 Nov 81	\$ 236,280.65	11 Dec 81	\$ 234,582.54	
17.	Nov. 1981	5 Dec 81	\$ 72,653.89 ^{1/}	11 Dec 81	\$ 72,653.89	
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	\$ 203,975.40	
20.	Jan. 1982	5 Mar 82	\$ 210,279.39	26 Apr 82	\$ 203,499.49	
21.	Feb. 1982	5 Apr 82	\$ 224,291.37	19 May 82	\$ 206,976.90	
22.	Mar. 1982	29 Apr 82	\$ 208,030.69	24 May 82	\$ 204,827.08	
23.	Apr. 1982	10 Jun 82	\$ 209,048.72	29 Jun 82	\$ 208,731.96	
24.	May. 1982	17 Jul 82	\$ 228,688.12	15 Aug 82	\$ 228,688.12	
25.	Jun. 1982	19 Aug 82	\$ 311,772.97	24 Aug 82	\$ 306,652.87	
26.	Jul. 1982	6 Sep 82	\$ 96,973.68	3 Dec 82	\$ 96,843.64	
27.	Aug. 1982	27 Oct 82	\$ 54,964.17	3 Dec 82	\$ 54,603.37	
28.	Sep. 1982	13 Dec 82	\$ 127,971.95	11 Jan 83	\$ 122,985.80	
29.	Oct. 1982	10 Jan 83	\$ 34,978.94	25 Jan 83	\$ 28,878.61	
30.	Nov. 1982	2 Feb 83	\$ 50,696.00	15 Feb 83	\$ 61,778.00	
31.	Dec. 1982	14 Feb 83	\$ 33,022.95	15 Feb 83	\$ 33,022.95	
32.	Dec. 1982 ^{2/}	15 Feb 83	\$ 28,601.47	24 Feb 83	\$ 27,327.56	
33.	Jan. 1983	15 Mar 83	\$ 36,452.90	20 Apr 83	\$ 36,452.90	
34.	Feb. 1983	11 Apr 83	\$ 40,455.55	22 Apr 83	\$ 40,455.55	
35.	Mar. 1983	29 Apr 83	\$ 35,891.02			

Notes: 1/ Partial Submittal 2/ Local Consultant Jul-Dec, 1982.

BILLING STATUS - DGWRD RUPIAH ACCOUNT

APPENDIX "D"
Sheet 2 of 3

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	15 May. 82	Rp. 2,102,405	
20.	Feb. 1982	29 Mar. 82	Rp. 2,600,145	15 May. 82	Rp. 2,600,145	
21.	Mar. 1982	27 Apr. 82	Rp. 3,027,418	15 May. 82	Rp. 3,027,418	
22.	Apr. 1982	27 May. 82	Rp. 2,668,265	19 Jun. 82	Rp. 2,668,265	
23.	May. 1982	23 Jun. 82	Rp. 3,293,885	20 Aug. 82	Rp. 3,293,885	
24.	Jun. 1982	19 Aug. 82	Rp. 2,506,990	20 Nov. 82	Rp. 2,506,990	
25.	Jul & Aug. 1982	20 Oct. 82	Rp. 2,069,915	20 Nov. 82	Rp. 2,069,915	
26.	Sep. 1982	20 Oct. 82	Rp. 1,235,650	20 Nov. 82	Rp. 1,235,650	
27.	Oct. 1982	11 Mar. 83	Rp. 910,300	28 Mar. 83	Rp. 910,300	
28.	Nov. 1982	11 Mar. 83	Rp. 801,435	28 Mar. 83	Rp. 801,435	
29.	Dec. 1982	11 Mar. 83	Rp. 702,980	28 Mar. 83	Rp. 702,980	
30.	Jan. 1983	15 Apr. 83	Rp. 679,700			
31.	Feb. 1983	15 Apr. 83	Rp. 762,070			
32.	Mar. 1983	15 Apr. 83	Rp. 1,083,740			

BILLING STATUS - DGFC RUPIAH ACCOUNT

APPENDIX "D"
Sheet 3 of 3

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 Dec. 82	Rp. 4,212,140	
14.	Aug. 1981	31 Oct. 81	Rp. 5,011,325	14 Dec. 82	Rp. 5,011,325	
15.	Sep. 1981	30 Dec. 81	Rp. 4,463,510	14 Dec. 82	Rp. 4,463,510	
16.	Oct. 1981	30 Dec. 81	Rp. 4,840,735	14 Dec. 82	Rp. 4,840,735	
17.	Nov. 1981	30 Dec. 81	Rp. 3,757,855	14 Dec. 82	Rp. 3,757,855	
18.	Dec. 1981	23 Feb. 82	Rp. 5,029,170	14 Dec. 82	Rp. 5,029,170	
19.	Jan. 1982	19 Mar. 82	Rp. 3,460,190	14 Dec. 82	Rp. 3,460,190	
20.	Feb. 1982	29 Mar. 82	Rp. 4,132,705	14 Dec. 82	Rp. 4,132,705	
21.	Mar. 1982	27 Apr. 82	Rp. 5,951,180	14 Dec. 82	Rp. 5,951,180	
22.	Apr. 1982	27 May. 82	Rp. 3,743,815	14 Dec. 82	Rp. 3,743,815	
23.	May. 1982	23 Jun. 82	Rp. 5,666,085	14 Dec. 82	Rp. 5,666,085	
24.	Jun. 1982	19 Aug. 82	Rp. 4,435,940	14 Dec. 82	Rp. 4,435,940	
25.	Jul & Aug. 1982	20 Oct. 82	Rp. 1,116,905			
26.	Sep. 1982	20 Oct. 82	Rp. 604,170			
27.	Oct. 1982	11 Mar. 83	Rp. 768,345			
28.	Nov. 1982	11 Mar. 83	Rp. 391,565			
29.	Dec. 1982	11 Mar. 83	Rp. 561,715			
30.	Jan. 1983	11 Apr. 83	Rp. 426,255			
31.	Feb. 1983	11 Apr. 83	Rp. 796,620			
32.	Mar. 1983	11 Apr. 83	Rp. 978,395			