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REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS AND ELECTRIC POWER
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

419

THE CITANDUY RIVER BASIN
DEVELOPMENT PROJECT

MONTHLY REPORT FOR THE PERIOD
Ending : 31 October 1973

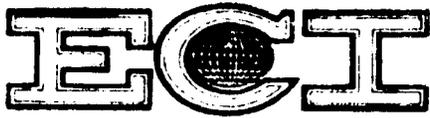
SUBMITTED BY :

ENGINEERING CONSULTANTS, INC.

DENVER, COLORADO USA

BANJAR, INDONESIA

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ENGINEERING CONSULTANTS, INC.

CABLE ADDRESS ·
ECIBANJAR
WEST JAVA
INDONESIA

PROYEK CITANDUY
PATARUMAN
BANJAR, WEST JAVA
INDONESIA

7 November 1973

Director General of
Water Resource Development
Ministry of Public Works and
Electric Power
Jalan Pattimura 7/20
Kebayoran Baru
Jakarta, Republic of Indonesia

Our file : 1138/26
Mr 3/73

Attn : Ir. Sarbini

Subject : Monthly Report
Citanduy River
Basin Development
Project.

Dear Sir :

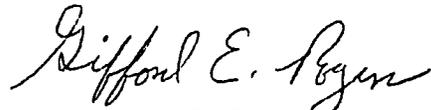
We are pleased to transmit herewith our third Monthly Report, which covers the calendar month of October 1973. Please note that in accordance with your orders we are increasing the number of copies sent to you from five to thirty. The additional twenty five are required for use by the Steering Committee.

page 2

We hope that this report will serve to keep you abreast of the current progress of our work.

Yours truly,

Engineering Consultants, Inc.



Gifford E. Rogers
Resident Manager

Enc: Thirty (30) copies of
Progress Report No. 3

CC :

1. USAID/Indonesia, American Embassy
Jakarta, Republic of Indonesia
Attn : Mr M-Aleer, Engineering Section
Six (6) enclosures.
2. Directorate of River and Swamps. Banjar Office.
Attn : J. Soebandi Wirosoemarto, Project Manager Citanduy
Project. Five (5) enclosures.
3. P.N. Indah Karya. Bandung.
Attn : Ir. Sahat T.P. Siagian, Counterpart Team Leader
Five (5) enclosures.
4. ECI/Denver.
Attn : Mr. C.M.Langford, Project Sponsor
Three (3) enclosures.
- 5 ECI Staff/Banjar. Five (5) enclosures.

GER/n

MONTHLY REPORT NO. 3

Period ending 31/10/1973

I. GENERAL

The publication of our first report, Mapping and Basic Data Requirements, was our first "milestone" in the progress of our contract. However, there was no slackening of the work pace because our time in October was occupied in the preparation of the first Supplement, which was scheduled for publication early in November.

In addition to our regular contractual work, we were also privileged to receive several important visitors to the project area. During the course of his inspection trip to observe the damages wrought by the recent flood of the Citanduy River, Ir. Sutami, Minister of Public Works and Electric Power, visited the office area in Pataruman. Some of the highlights of his visit are shown graphically in the Photo Section.

Coincident with the visit by the Minister of Public Works and Electric Power was the arrival of Mr. Glen E. Rockwell, President of E.C.I. This was most fortunate because Mr. Rockwell was able to indulge in very fruitful discussions with not only the Minister, but also with Ir. Suyono Sosrodarsono, Director General of Water Resource Development and Ir. Sabin, Secretary, Directorate of River and Swampy Areas. These discussions were carried on at a formal level in the offices of the Citanduy Project Manager and at an informal level at a dinner hosted by Ir. Soebandi in honor of the visit by the Minister.

Mr. Rockwell was also able to discuss project matters with Ir. Soebandi, Citanduy Project Manager, and Mr. Sahat, Chief of Counterpart Team. Thus in spite of a very limited time schedule circumstances allowed Mr. Rockwell to meet most of the officials concerned with the Citanduy River Project. It was regrettable that time did not allow him to pay his respects to Ir. Sudaryoko, Director of River and Swampy Areas. We hope that this can be accomplished on the occasion of a subsequent visit to Indonesia.

II. PERSONNEL

A. Present at last report :

1. GIFFORD E. ROGERS - Resident Manager
2. WALLACE J. SCHOENLEBER - Civil Engineer
3. DAVID E. BOGAN - Irrigation and Drainage Engineer
4. YIN AU YEUNG - Hydrologist
5. ROBERT A. GARDNER - Soil Scientist
6. ROYDON T. EDWARDS - Agriculturist
7. ROBERT E. STREUTHERS - Economist
8. DONALD SCOTT - Geologist
9. ERIC WILL - Chief of Planning

B. Arrivals Subsequent to last report :

1. GLEN ROCKWELL, - President E.C.I. - Because of the intense interest of E.C.I. in the Citanduy Project, Mr. Rockwell has personally visited the project to assure that all goes well. He arrived 14/10/73 and spent five days on project bussiness.

C. Departures subsequent to last report :

1. YIN AU YEUNG, Hydrologist - Departed Jakarta on 3/10/73. Au Yeung had been scheduled for a total of two months, but by a combination of overtime work and excellent cooperation from his counterpart and the Hydraulic Institute he was able to complete his work in six weeks. The additional time budgeted for him will either be added on to his next visit, or will be used to extend some technician whose time might have been underestimated.

2. ERIC WILL, Chief of Planning - Departed Jakarta on 15/10/73. Will had been scheduled for a total of two months but he was able to complete his duties in one month. The additional time budgeted will either be added on to his next visit, or will be used to extend some technician whose time might have been underestimated.
3. GLEN ROCKWELL, President E.C.I.

D. Scheduled to arrive next month :

1. M.A. STEVENS - River Regime Specialist
2. - Land Use Specialist

E. Scheduled to arrive at a later date :

1. MICHAEL SAUNDERS - Planner - February 1974
2. CHURCHIL - Environmentalist - February 1974

III. IMPORTANT EVENTS

A. Meetings

1. 1/10/73 Mr. Will and his counterpart met with USAID Officials and discussed electrical power generation possibilities on the Citanduy and how they might fit into the national power network.
2. 2/10/73 Messrs. Will, Struthers, and Edwards, and their respective counterparts met with USAID Officials to discuss guidelines as outlined in our contract.
3. 3/10/73 Mr. Will and his counterpart met with officials of P.L.N. to discuss the national plan for power development in general and in particular how project development in the Citanduy basin might fit into this national scheme.
4. 4/10/73 Mr. Will and his counterpart met with PLN EXPLOTASI XI Officials in Bandung. They were very helpful in describing the electrical power facilities and present and future requirements for Bandung area.
5. 4/10/73 Mr. Rogers met with Mr. Angudi of Indah Karya. Discussed project affairs. Mr. Angudi has been very helpful in assisting E.C.I. to solve their administrative as well as technical problems.
6. 5/10/73 Mr. Rogers met with Mr. Sarbini and Mr. Soebandi. Discussed problems presented in September Monthly Report. Also agreed to have second rupiah check arranged so that it could be paid direct without going through the ordinary banking channels for deposit to E.C.I.'s account in Banjar.

7. 12/10/73 Mr. Rogers met with Mr. Sarbini and Mr. Angudi in Indah Karya office in Bandung. Discussed project problems.
8. 13/10/73 Mr. Rogers met with Mr. Sarbini's staff in Jakarta to discuss project administrative and housekeeping problems.
9. 16/10/73 Mr. Rockwell, President of E.C.I. met Minister of Public Works, Mr. Sarbini, and Mr. Soebandi to discuss future project possibilities for flood control.
10. 19/10/73 Mr. Rogers met with Mr. Sarbini's Staff to discuss administrative matters.
11. 20/10/73 Dr. Gardner met with Dr. Robinson, advisor to Soil Research Institute in Bogor.

B. Field Trips

1. 6/10/73 Field trip to Matenggeng Dam Site.
Will, Bogan, Edwards, Schoenleber.
2. 7/10/73 Field trip to Ciamis and Manonjaya Dam Sites.
Will, Edwards, Bogan, Schoenleber.
3. 8/10/73 Field trip to Binangun reservoir site and Gunung Putri diversion. Schoenleber, Bogan and Will.
4. 9/10/73 Field trip to Ciamis-Cikembang reservoir site.
Edwards, Will, Bogan and Schoenleber.

5. 10/10/73 Field trip to Segara Anakan by boat.
Gardner, Rogers, Will, Struthers, Edwards, Scott
and Counterparts.
6. 11/10/73 Field trip to Rawa Onom - Bantarheulang diversion
site. Bogan, Edwards, Gardner and Will.
7. 19/10/73 Field trip to Matenggeng Dam Site.
Bogan and Scott.
8. 29/10/73 Field trip to Citanduy River levees from railroad
bridge 1452 to Manganti.-
Stevens, Schoenleber and Edwards.

IV. MAJOR PROBLEM AREAS

A. Vehicles and transportation.

The dispatch of vehicles has worked out much more smoothly this month since the changes initiated by the Project Manager were put into effect.

Vehicle maintenance continues to be problem, but to a lesser extent than before.

B. Office and Housing facilities

Various electrical problems need attention as follows :

1. High voltage surges have burned out the fan motor of three refrigerators and threaten the remaining three unless regulators are purchased and used.
2. The high voltage surges in the office have been recorded in the magnitude of 140 volts and this has resulted in a fire inside of the Xerox copy machine. The purchase of a voltage regulator has apparently solved this problem for this one machine.
3. The frequent electrical outages require a permanent installation of the two existing stand-by generator units. The make-shift arrangement now utilized is dangerous and time consuming when required to be put into operation. Use of the 110 Volt generator unit as the prime source of power at the housing unit well is unnecessary. The pump should be hooked directly to the PLN line and the generator used only in an emergency.

V. PROGRESS

A. Technical

Progress continues to be satisfactory. Work is concentrated on sorting out the basic data relative to the selection of our first recommendation for a sub-project. The boat trip on the Segara Anakan on 10-10-73 was made to acquaint the remainder resident staff members (who had not been on the earlier trip) with the area and for the express purpose of examining this area to determine what additional data may be required before final review. Our Soils Specialist and Chief Planner made trips by a small speed boat to enable them to move into areas not accessible with the larger motor launch. At the close of this month, our river regime specialist arrived and immediately started field work to acquaint himself with local conditions in respect to the flood of 23 September 1973.

B. Administrative

Our administrative staff was given several days compensatory leave to follow the Lebaran Holiday period. This was handled in lieu of overtime worked in compiling the Basic Data Report during the previous month. The Project Managers' effort of the use of an electric typewriter to publish our reports should help us both in submission time and final quality on the forth-coming reports.

The following table shows the present financial standing as of the end of this report period. The summary indicates that 15% of the funds have been actually expended with 17% of the contract time elapsed.

Budget Status - Rupiah Account

ITEM	AMOUNT (Rp.)		
	Authorized	Spent	Remaining
Per diem	12,040,000	1,810,500	10,229,500
Cables	1,100,000	77,068	1,022,932
Postage	1,100,000	32,325	1,067,675
Reproduction and Printing	2,000,000	416,046	1,583,954
Supplies and materials	1,100,000	495,329	604,671
Other Minor items	700,000	180,629	519,371
Administrative Staff	6,300,000	605,360	5,694,640
T O T A L	24,340,000	3,617,257	20,722,743

VI. PROGRAM

A. Financial

Our expenditures at the end of October have reached Rp. 3,617,257 and the estimate by the end of November will be Rp. 4,800,000. It is therefore, imperative that our second installment for Rupiah payments be paid before the end of November.

B. Technical

On November 11, we intend to submit our first addendum to the Basic Data Report. It will include information on costs and time schedules for aerial and terrestrial mapping. We will concentrate next months activities on final selection of the first priority subproject to be submitted by 30 November 1973. Data collection and review work will continue on a regular basis throughout the coming month.

VII. APPENDICES

- Fig. 1 -- Manpower Strength (for end of period)
- Fig. 2 -- Actual vs. Scheduled Progress
- Table 1 -- Manpower Schedule -- cumulative totals U.S.
- Table 2 -- Manpower Schedule -- cumulative totals
 Indonesian (Counterpart)
- Table 2 A -- Manpower Schedule -- cumulative totals
 Indonesian (Direct hire)
- Table 3 -- Arrivals and Departures U.S.Nationals
- Table 4 -- Arrivals and Departures Indonesian
- Table 5 -- Schedule of Submissions

LEGEND

- U.S. NATIONALS
- 3rd. COUNTRY NATIONALS
- x- INDONESIAN COUNTERPART
- INDONESIAN DIRECT. HIRE

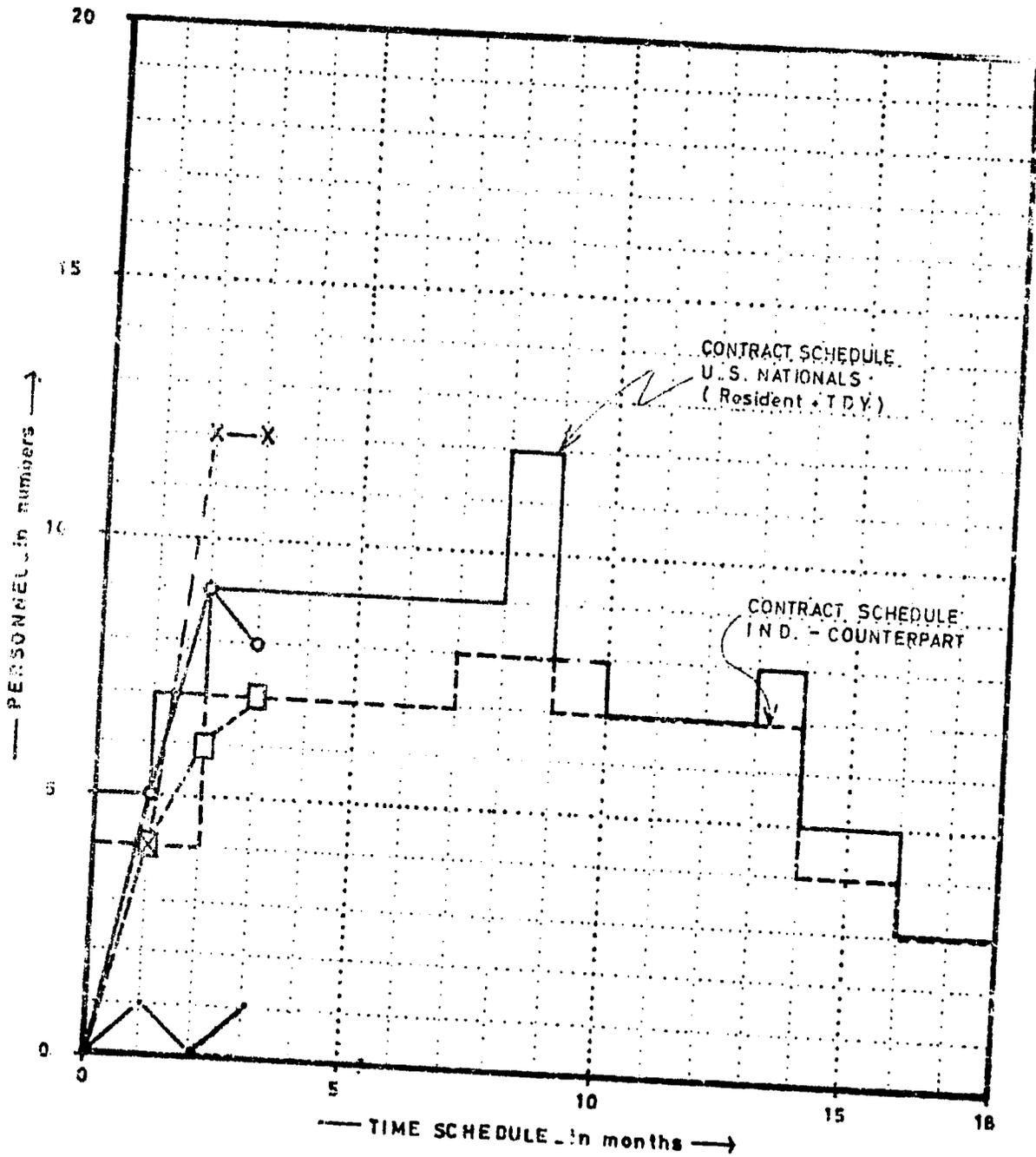
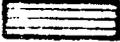


figure No.1_ MANPOWER STRENGTH (for end of period)

LEGEND

-  SCHEDULED PROGRESS
-  ACTUAL PROGRESS

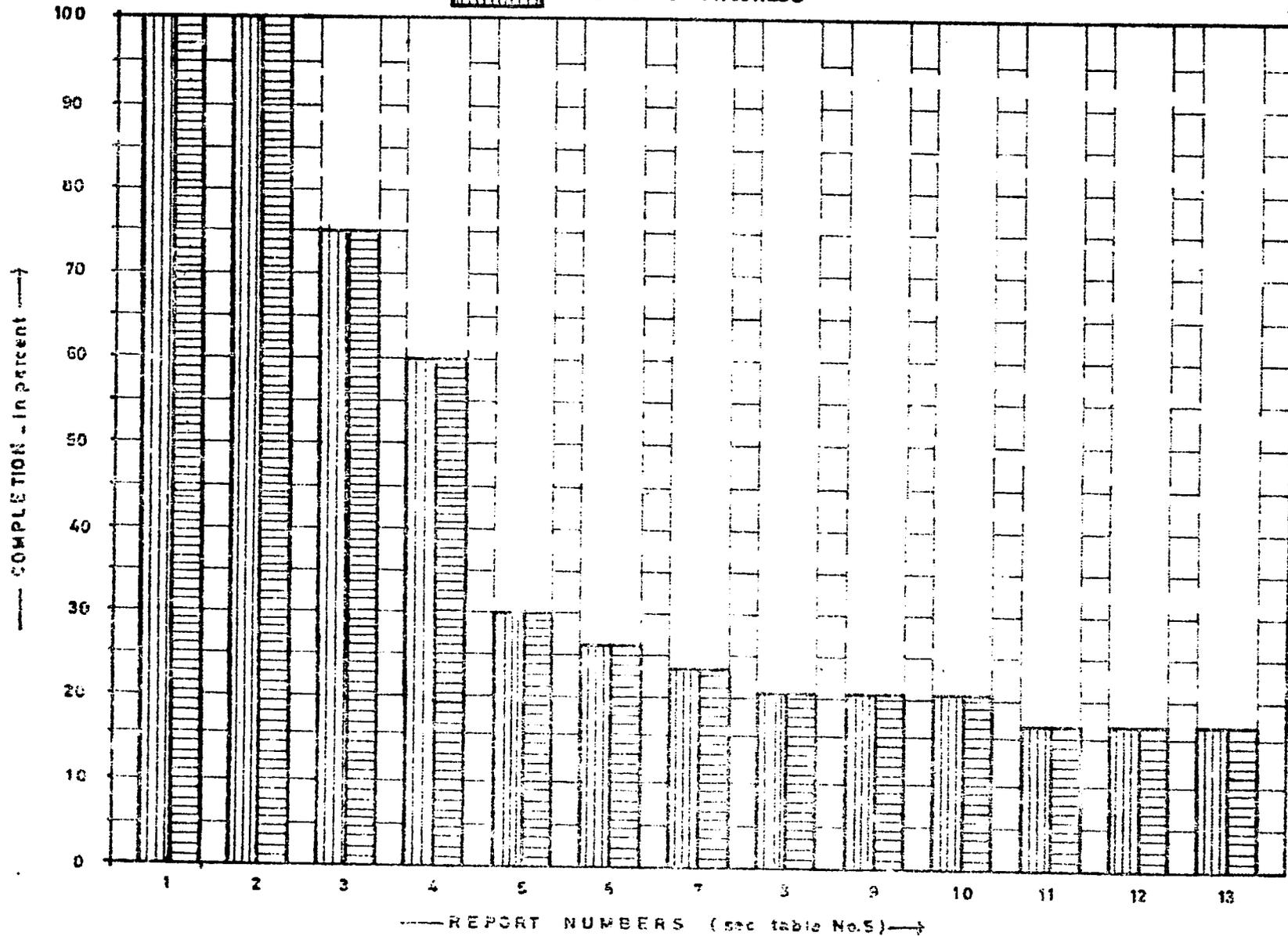


figure No. 2 - ACTUAL VS. SCHEDULED PROGRESS (End of Report Period)

Table No.2A - MANPOWER SCHEDULE - cumulative totals in man months

INDONESIAN DIRECT HIRE	1973					1974												1975	TOTALS	
	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	ACTUAL	CONTRACT
1 MUNGKI S.W. - SECR.	0.62	1.62	2.62																	18.00
2 SRI Z. GEMAR - CLERK	0.62	1.62	2.62																	18.00
3 SUPARTI - CLERK	0.29	1.29	2.29																	18.00
4 EDIH SUMARI - TYPIST	0.13	1.13	2.13																	18.00
5 DJOELIANDI - INTER.	-	0.94	1.94																	18.00
6 SULIANTI - INTER.	-	0.10	1.10																	18.00
7 DASIRAM - MESS.	-	1.00	2.00																	18.00
8																				
9																				
10																				
11																				
12																				
SUBTOTALS	1.66	7.60	14.70																	126.00
MISC. SUPPORT																				
1 DRAFTSMEN	4.00	6.00	8.00																	*
2 MESSENGER	2.00	2.00	4.00																	*
3 DRIVERS	4.00	15.00	26.00																	*
4 CUSTODIANS	4.00	2.00	4.00																	*
5																				
6																				
7																				
8																				
9																				
10																				
SUBTOTALS	14.00	25.00	42.00																	*
TOTALS	15.66	32.60	56.70																	126.00

* Not specified in contract

TABLE NO. 3 - ARRIVALS AND DEPARTURES

A. U.S. NATIONALS

<u>NAME</u>	<u>POSITION</u>	<u>ARRIVED</u>	<u>DEPARTED</u>
1. LANGFORD, C.M.	Project Sponsor	23-7-73	4- 8-73
2. ROGERS, G.E.	Resident Manager	30-7-73	—
3. SCHOENLEBER, W. J.	Civil Engineer	1-8-73	—
4. BOGAN, D.E.	Irrig. Eng.	12-8-73	—
5. AU-YEUNG, YING	Hydrologist	25-8-73	13-10-73
6. WILL, ERIC	Chief Planner	15-9-73	15-10-73
7. EDWARDS, R.T.	Agriculturist	16-9-73	—
8. STRUTHERS, R.E.	Ag. Economics	15-9-73	—
9. GARDNER, R.A.	Soil Scientist	15-9-73	—
10. SCOTT, D.P.	Geologist	15-9-73	

B. THIRD COUNTRY NATIONALS

<u>NAME</u>	<u>POSITION</u>	<u>ARRIVED</u>	<u>DEPARTED</u>
1. KUEHL, M.K.	Chief Eng.	26- 8-73	18-9-73
2. STEVENS, M.A.	Flood Control	27-10-73	—

TABLE NO. 4 - ARRIVALS AND DEPARTURES

A. INDONESIAN - COUNTERPART

<u>NAME</u>	<u>POSITION</u>	<u>ARRIVED</u>	<u>DEPARTED</u>
1. Sahat T.P. Siagian	Team Leader	25- 7-73	--
2. Yasin Umar K.	Civil Engineer	1- 8-73	--
3. Amirudin	Plan. Engineer	15- 8-73	--
4. Tossin	Agriculturist	17- 9-73	--
5. Imam Hidayat	Economist	19- 9-73	--
6. Yusron Lubis	Hydrologist	25- 8-73	13-10-73
7. Achmad djojoadinoto	Irr. & Drain	12- 9-73	--

B. INDONESIAN - COUNTERPART ASSISTANTS

<u>NAME</u>	<u>POSITION</u>	<u>ARRIVED</u>	<u>DEPARTED</u>
1. Krebet Suryondadari	Planner	1- 8-73	--
2. T. Maruly Nadapdap	Hydrologist	29- 8-73	--
3. Wildan Mufin	Economist	8-10-73	--
4. E. Sumardi A.S.	Soil & Rec.	24- 9-73	--
5. Rahmat Adiwidjaya	Agriculture	24- 9-73	--

C. INDONESIAN - DIRECT HIRE

<u>NAME</u>	<u>POSITION</u>	<u>ARRIVED</u>	<u>DEPARTED</u>
1. Nungki S.W.	Secretary	13- 8-73	--
2. Sri Z. Oemar	Clerk	13- 8-73	--
3. Supiarti	Clerk	23- 8-73	--
4. Etjih Suhari	Clerk	29- 8-73	--
5. Sylvia Djoeliandi	Interpreter	3- 9-73	--
6. Pauline Sulianti	Interpreter	28- 9-73	--
7. Dasiran Tapawira	Messenger	1- 9-73	--

TABLE NO. 5 - SCHEDULE OF SUBMISSIONS

<u>REPORT NO.</u>	<u>CONTRACT PARAGRAPH</u>	<u>SUBJECT</u>	<u>DATE DUE</u>	<u>DATE SUBMITTED</u>	<u>MONTHS</u>
1.	2. 3. 1.	Mapping requirement	30-9-73	30-9-73	2
2.	2. 3. 2.	Basic data collect-	30-9-73	30-9-73	2
		ion.			
3.	2. 5. 1.	1 st Priority Project			
		Evaluation	30-11-73		4
4.	2. 5. 1.	2 nd Priority Project			
		Evaluation	30-12-73		5
5.	2. 5. 1.	1 st Feasibility Study			
		(Draft form)	31-5-74		10
6.	2. 5. 1.	2 nd Feasibility Study			
		(Draft)	30-6-74		11
7.	2. 5. 1.	1 st Feasibility Study			
		(Final)	31-8-74		13
8.	2. 5. 1.	2 nd Feasibility Study			
		(Final)	30-9-74		14
9.	2. 3.	Comprehensive Study			
		(Draft)	15-10-74		14.5
10.	2. 4.	Master Plan			
		(Draft)	15-10-74		14.5
11.	2. 3.	Comprehensive Study			
		(Final)	31-1-75		18
12.	2. 4.	Master Plan (Final)	31-1-75		18
13.	2. 6. 4.	Completion Report	31-1-75		18

VIII. PROJECT PHOTOS



IR. SUTAMI, MINISTER OF PUBLIC WORKS AND ELECTRIC POWER INSPECTING FLOOD DAMAGE IN CITANDUY RIVER BASIN. (IR. SOEBANDI, CITANDUY PROJECT MANAGER AT HIS RIGHT AND IR. SARBINI, SECRETARY, DIRECTORATE OF RIVERS AND SWAMPY AREAS AT HIS LEFT.



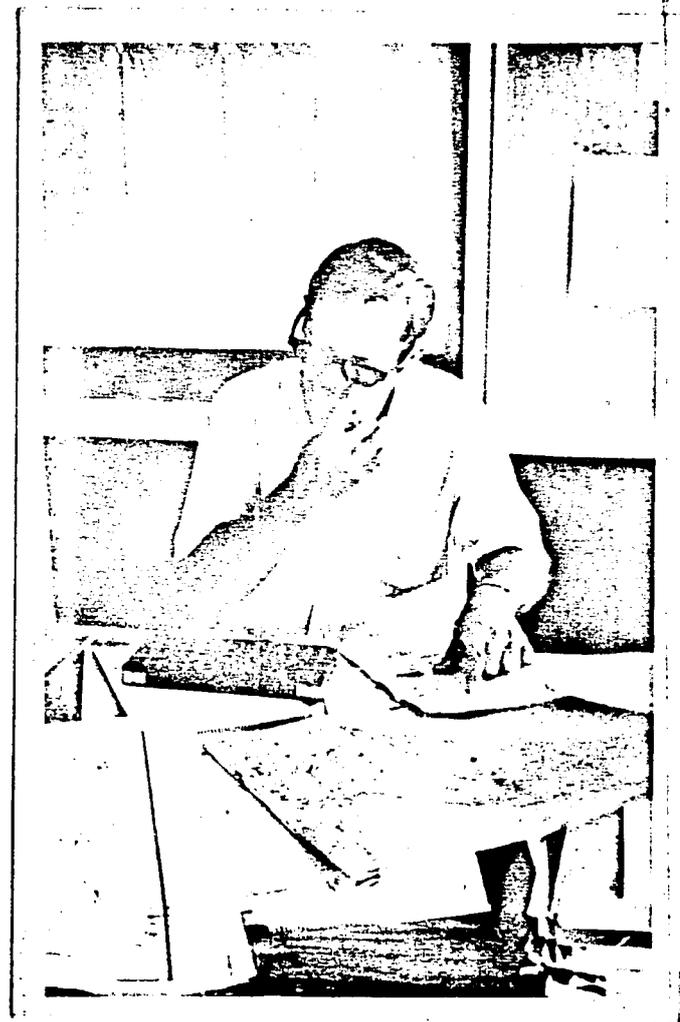
IR. SUTAMI, MINISTER OF PUBLIC WORKS AND ELECTRIC POWER AND
IR. SOEBANDI WIROSOEMARTO, PROJECT MANAGER CITANDUY PROJECT.
MEETING AT CITANDUY PROJECT OFFICE



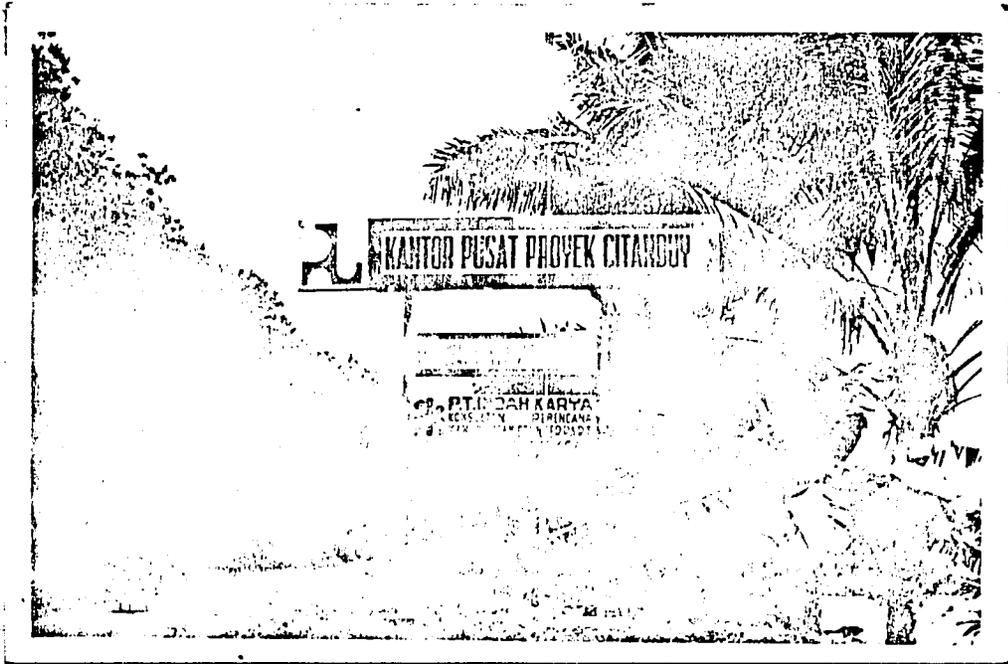
IR. SUTAMI, MINISTER OF PUBLIC WORKS
AND ELECTRIC POWER INSPECTING ROCK-FILLED
GROIN ON CITANDUY RIVER.



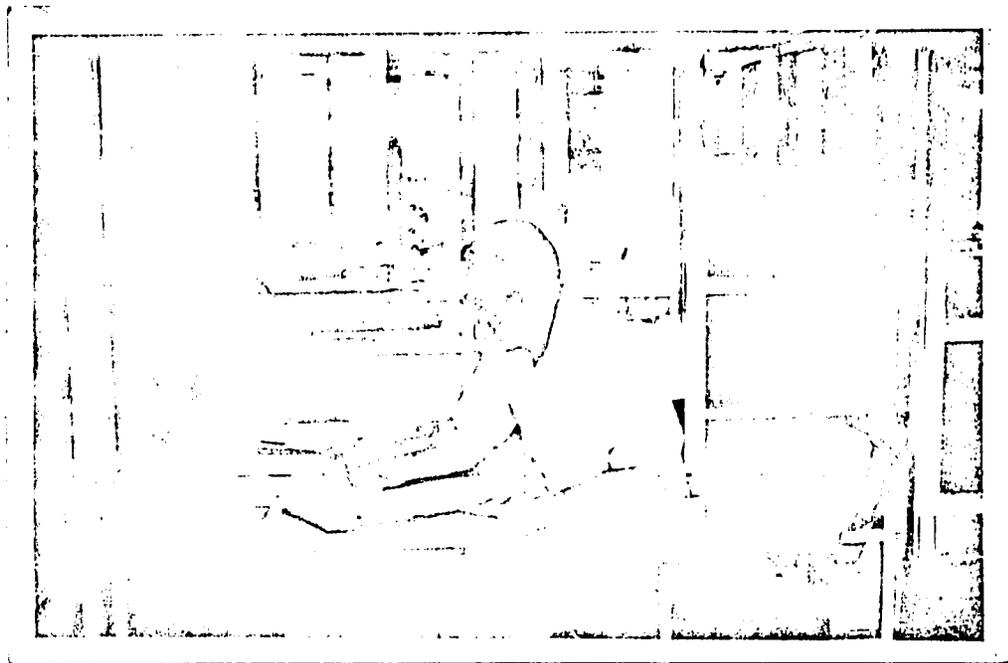
EVEN THE FAMILIES OF THE CONSULTANTS JOINED THE EFFORTS
TO GET OUR FIRST REPORT OUT ON SCHEDULE



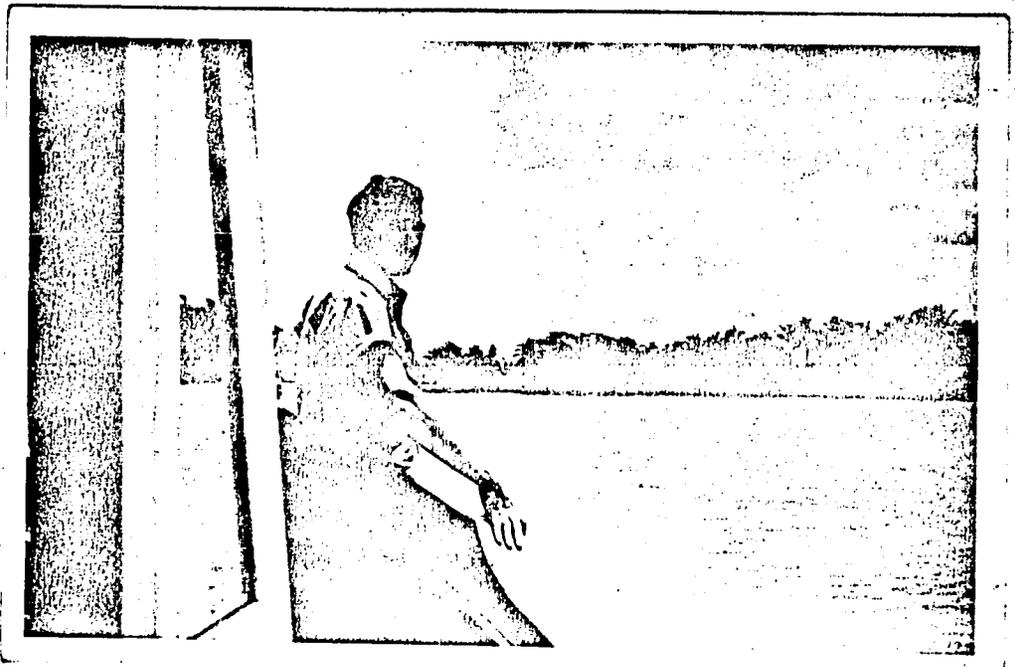
POWER FAILURE, OR NOT, THE WORK
MUST CONTINUE



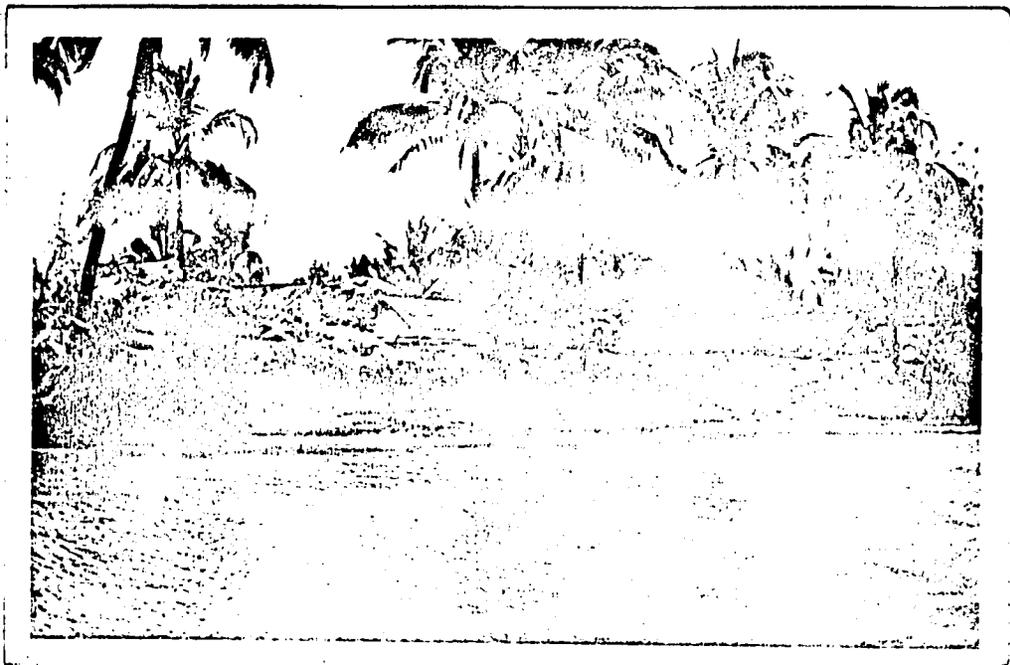
ENTRANCE TO CITANDUY PROJECT GENERAL OFFICE AREA



ECI CONSULTANT AT WORK IN OFFICE



ECI CONSULTANT INVESTIGATING THE SEGARA ANAKAN AREA



LOWER REACHES OF CITANDUY RIVER