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

32 p /

THE CITANDUY RIVER BASIN
DEVELOPMENT PROJECT

MONTHLY REPORT FOR THE PERIOD
Ending : 30 November 1973

SUBMITTED BY :

ENGINEERING CONSULTANTS, INC.

DENVER, COLORADO USA

BANJAR, INDONESIA



ENGINEERING CONSULTANTS, INC.

CABLE ADDRESS :
ECIBANBAR
WEST JAVA
INDONESIA

PROYEK CITANDUY
PATARUMAN
BANJAR, WEST JAVA
INDONESIA

30 November 1973

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

Attn : Ir. Sarbini

Our file : 1138/36
Mr 4/73
Subject : Monthly Report
Citanduy River
Basin Development
Project.

Dear Sir :

We are pleased to transmit herewith our fourth Monthly Report, which covers the calendar month of November 1973.

Your attention is called to slight changes in format which we hope will meet with your approval. Section III (B), Field Trips, has been changed from a narrative presentation to a graphical form. This should contribute to both clarity and brevity of the report. In Section V. PROGRESS, we have added a tabulation of the current status of our US Dollar account.

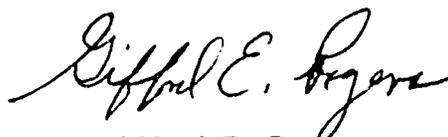
page two

Recently we were criticized for not mentioning the Counterpart Team in our reports. We wish to point out that Table No. 4, which has appeared in the Appendix of every one of our monthly reports issued to date, is dedicated exclusively to detailing the attendance of both counterparts and the ECI local staff. Furthermore, in the September Monthly Report, as well as in this report, the Counterpart staff figures prominently in Section VIII, Project Photos.

We hope that you will find this report interesting as well as usefull.

Yours truly,

Engineering Consultants, Inc.



Gifford E. Rogers
Resident Manager

Enc : Thirty (30) copies of
Progress Report No. 4

- CC : 1. USAID/Indonesia, American Embassy
Jakarta, Republic of Indonesia
Attn : Mr. Walter M^CAleer,
Engineering Section. Six (6) enclosures
2. Directorate of River and Swamps. Banjar Office.
Attn : Ir. Soebandi Wirosoemarto, Project Manager Citanduy
Project. Five (5) enclosures.
3. P.T. 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. 4

Period ending 30/11/1973

I. GENERAL

During the first half of the month of November our entire attention was focused on the completion of our "Addendum No. 1" to the original "Citanduy Project, Mapping And Basic Data Report". This publication, completed on 15 November 1973, dealt principally with recommended work schedule and cost estimates to carry out the additional work recommended in some detail in the original report. As our work progresses and the needs for additional basic data become more apparent, we propose to issue additional addenda from time to time.

Report preparation also occupied all our time during the latter half of the month. By dint of great effort on the part of all concerned, we were able to meet the deadline for our second major report as established in our Contract. On 30 November 1973, we completed our report, "Recommendations for First Priority Feasibility Studies".

In between report preparation, the consultants also found time to make several field trips, hold several conferences with regional and district officials, and to confer with the client in Jakarta and also with Indah Karya officials in Bandung.

The Resident Manager also attended a meeting of the Steering Committee in Jakarta on 26 November 1973. Highlights of that meeting are discussed in Part III - IMPORTANT EVENTS. Suffice it to say that the Consultant was very gratified with the conclusion arrived at by the Steering Committee that the "Consultants work was received with satisfaction, the Committee feels that the Consultant is on the right track, and the Consultant is authorized and encouraged to continue conducting his work in the same manner".

Since the Consultant was on schedule with the publication of the first priority feasibility study recommendations, the Steering Committee was able to fix 18 December 1973 as the date for the next meeting. At this time the recommendations will be discussed and authority given to either proceed as planned, or perhaps with certain modifications. Meanwhile we shall concentrate on the preparation of the second priority feasibility study recommendation which is scheduled for presentation on 30 December 1973.

Although the official minutes of the Steering Committee meeting will soon be made available the Consultant believes that the highlights of the meeting will stand repetition. As far as the Consultants participation was concerned, the meeting consisted of the following main points :

1. Progress report by the Consultant followed by questions and answers .
2. Presentation by the Consultant of general impressions formed to date especially in relation to the overall development of the Citanduy Basin. The Consultants' remarks were subsequently discussed at some length.
3. Discussion by the Consultant of impressions gained from observing the floods of September/October and November. Considerable discussion also followed this presentation.
4. Both the "Mapping And Basic Data Report" and "Addendum No. 1 Report" were analyzed and the Consultant was questioned closely.
5. In the work flow chart prepared by the Consultant a total of thirty days was allotted for the Client to consider the recommendation for the first priority feasibility study and return his decision to the Consultant. Because of this tight time schedule, and in view of the fact that the report covering the Consultants recommendations for the First Priority Feasibility Studies would be published on schedule, it was

decided that the Steering Committee should meet again on 18 December 1973 for the express purpose of discussing this report. As a means of acquainting the Steering Committee with the Consultant's thinking to date, the Resident Manager presented an outline of the probable contents of the report soon to be released.

6. Among other conclusions the Steering Committee :
 - a. Commended the Consultant for work to date.
 - b. Observed that the Consultants approach was sound.
 - c. Encouraged and authorized the Consultant to proceed in the same manner.

The Consultant also feels that it is worthy of note that the second rupiah payment by the Client to the Consultant was recieved on schedule. Naturally, this promptness is very gratifying.

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. Robert E. Struthers - Economist
5. Roydon T. Edwards - Agriculturist
6. Donald P. Scott - Geologist
7. Robert A. Gardner - Soil Scientist

B. Arrivals subsequent to last report :

1. M.A. Stevens, River Management Specialist.
Arrived Jakarta on 27/10/73 and in Banjar on 28/10/73.
He will remain on TDY status for a period of about two
months. A second visit is scheduled for mid - 1974.

C. Departures subsequent to last report :

1. No departures to report.

D. Scheduled to arrive next month :

1. No arrivals scheduled for December 1973.

E. Scheduled to arrive at a later date :

1. C.M. Langford - Project Sponsor - January 1974
2. - Land Use Specialist - January 1974
3. Churchil - Environmentalist - February 1974
4. Michael Saunders - Planning Engineer - February 1974

III. IMPORTANT EVENTS

A. Meetings

<u>No.</u>	<u>Date</u>	<u>Location</u>	<u>Purpose</u>	<u>Personnel</u>
1.	2-11-73	Jakarta	Project problems discussed with Ir. Sarbini's staff	Rogers
2.	4-11-73	Jakarta	Entry papers of Mrs. Gardner	Rogers and Gardner
3.	17-11-73	Bandung LPMA Hydraulic Institute	Discussed soil problems with Dr. Menzenbach	Scott and Counterpart
4.	17-11-73	Bandung LPMA Hydraulic Institute	Discussed Hydrologic data	Stevens and Schoenleber
5.	23-11-73	USAID Jakarta	Project matters	Rogers
6.	24-11-73	Jakarta	Project matters with Ir. Sarbini's staff	Rogers
7.	26-11-73	Jakarta Steering Committee	Priority sub-projects and Basic Data Report	Rogers and Counterpart Team Leader

B. Field Trips

<u>No.</u>	<u>Date</u>	<u>Location</u>	<u>Purpose</u>	<u>Personnel</u>
1.	1-11-73	Rancah, Panawangan & Kawali	Land Use and Soil erosion survey	Edwards & Counterparts
2.	2-11-73	Rawa Onom & Lakbok	Crop Production Survey	Edwards & Counterparts
3.	2-11-73	Citanduy boat trip	River regime survey	Stevens, Schoenleber & Counterparts
4.	(2-7)-11-73	Jakarta - Bandung	Aerial photos, soils auger & Tide informa- tion	Dr. Gardner & Counter- parts.
5.	5-11-73	Forestry Lands - Ranjar	Production practices	Edwards & Counterparts
6.	(6,7)-11-73	Cilacap, Sidareja	Data collection	Edwards & Counterparts
7.	(8,9)-11-73	Semarang	Authority for research	Counterpart Ir. Iman.
8.	8-11-73	Matenggeng Damsite	Geologic investigation	Scott and Counterpart
9.	11-11-73	Railroad Bridge 1452	Flood control inspection	Stevens, Schoenleber and Edwards.
10.	12-11-73	Tasikmalaya	Data Collection	Struthers & Counterparts
11.	(11-18)-11- 1973	Bogor, Bandung	Visit Ag. Research Stations.	Edwards & Counterparts

B. Field Trips (Continued)

<u>No.</u>	<u>Date</u>	<u>Location</u>	<u>Purpose</u>	<u>Personnel</u>
12.	11-11-73	Manonjaya Damsite	Geologic investigation	Scott and Counterpart
13.	14-11-73	Tasikmalaya BAPPEMKA	Data collection Flood report of Sept. '73	Struthers and Counterpart
14.	15-11-73	Binangun Damsite	Geologic investigation	Scott and Counterpart
15.	18-11-73	Cipanunjang Damsite	Invirionmental Impact of 50 year old dam	Stevens, Schoenleber and Interpreter Sulianti
16.	19-11-73	Manonjaya Damsite	Geologic investigation	Scott and Counterpart
17.	19-11-73	Ciamis Dist. Office Mr. Hudly, Chief.	Flood Report Information	Struthers and Counterparts
18.	(21-23)-11-1973	Cilacap District	Economic data Collection	Counterparts of Mr. Struthers only
19.	21-11-73	Banjar Damsite	Geologic investigation	Scott and Counterpart
20.	(20-27)-11-1973	Kalipucang	Soils survey work	Gardner and Counterparts
21.	(21-30)-11-	Cilacap District	Agricultural data collection	Edwards and Counterparts

B. Field Trips (Continued)

<u>No.</u>	<u>Date</u>	<u>Location</u>	<u>Purpose</u>	<u>Personnel</u>
22.	25-11-73	Volcano Sawal	Erosion and flood potential survey	Stevens and Edwards
23.	23-11-73	Binangun No. 2 Damsite	Geologic investigation	Scott & Counterpart
24.	26-11-73	Ciamis-Cikembang Damsites	Geologic investigation	Scott & Counterpart
25.	(29,30)-11- 1973	Manonjaya	Geologic investigation	Scott & Counterpart
26.	(28-30)-11-	Segara Anakan (Cilacap)	Soils investigations	Gardner and Counterparts

IV. MAJOR PROBLEM AREAS

A. Vehicles and transportation.

Vehicle dispatch is satisfactory, but the policy of gasoline allocation needs serious attention. There were three vehicles that ran out of gasoline within a 10 day period and many other instances of where the purchase of gasoline by the Consultants themselves is all that prevented stoppages. Vehicle maintenance continues to be a problem. The Consultant has no budgeted funds for either vehicle operation or maintenance.

B. Office and housing facilities.

1. We are heartened by the fact that the long-sought standby generator facility for the office is nearly complete. Without this standby generator our report production would have come to a complete standstill as power outages have occurred for at least three full days during this crucial period.
2. We must again bring up the fact that the use of a standby generator for pumping water at the Consultant's housing complex is a waste of this precious facility. The well pump must be hooked directly to PLN power line and the generator used only during power outages.
3. The problem of the burned out fan motors on the refrigerators is still not solved. Temporary relief has been sought by the Consultant's taking self action by the purchase of voltage regulators but this is not the individual's problem or the overall solution.

C. Dollar finances

The Letter of Credit has **yet** to be deposited in our bank. This has forced our Denver office to use more than 100,000 dollars of the Consultants own funds to ensure the timely continuation of this contract. It is hoped that this will be resolved quickly.

V. PROGRESS

A. Technical

Progress is ahead of schedule on submission No. 4 - "Recommendation for Second Priority Sub-Project Evaluation" because most of the work was done in preparation of the First Priority Report due on 30-11-73. This report is on schedule and will be delivered during the first work days of December.

A significant contribution was made by our River Regime Expert, Mr. M.A. Stevens. He arrived on 27 October and spent every day on the project except the first Sunday. His numerous field trips included flood control measures, Citanduy River boat trip, flooded areas of Wanareja swamp, watershed observations on sedimentation and flood control dam site selections. He also contributed to future report narratives by his observations on land reclamation work in the Segara Anakan.

B. Administrative

An all-out effort was required by our secretarial staff to complete the "First Priority Feasibility Studies" report on time. This entailed working the entire week-end in lieu of future off duty schedule during the New Year holiday period. The girls are to be commended for their devotion to duty especially during these crucial work periods.

During the month we received our stencil scanner plus punching and binding machines from the United States of America. When we receive our offset duplicator, which is expected early next year, our reproduction facilities will be complete. At the present time we have the following equipment in operation :

1. Xerox Model No. 2200
2. Rex Rotary Stencil Scanner, Model 2002 S
3. Rex Rotary Mimeograph, Model D 490
4. Ravenna Ozalid Machine
5. APECO Com-Bind report punch and binder

Needless to say, the availability of this equipment has enabled the Consultant to not only upgrade the quality of the printing and binding of reports, but also to reproduce them at a lower cost.

The following tables show the financial standings of both the Rupiah and the US Dollar accounts. The Rupiah account is current to the end of this report period. It indicates that some 22 % of the term has elapsed, but only about 17 % of the Rupiah funds have been expended. The US Dollar account is current to the end of October, but only the reimbursable costs are shown. Missing are the fee payments and amounts spent on equipment for the **client's** account. This shows that some 16 % of the US Dollar funds for reimbursable items have been expended.

Budget Status - Rupiah Account

ITEM	AMOUNTS (Rp.)		
	Authorized	Spent	Remaining
Per Diem	12,040,000	1,408,000	9,632,000
Cables	1,100,000	120,000	980,000
Postage	1,100,000	45,000	1,055,000
Reproduction and Printing	2,000,000	620,000	1,380,000
Supplies and Materials	1,100,000	500,000	600,000
Other Minor Items	700,000	195,000	505,000
Administrative Staff	6,300,000	912,000	5,388,000
	24,340,000	4,800,000	19,540,000

Budget Status - Dollar Account *

Reimbursable Costs Only

	AMOUNTS (US \$)		
	Authorized	Spent	Remaining
Overseas Salary	153,680	21,950	131,730
Overseas Differential	39,920	5,350	34,570
Overhead (Overseas)	95,278	13,600	81,678
Denver Office Salaries	82,050	8,750	73,300
Denver Office Overhead	57,435	6,150	51,285
Special Consultants	10,000	—	10,000
Per Diem	2,838	600	2,238
Transportation, Baggage,			
Household Effect,	20,800	16,250	4,550
Other Direct Costs	28,500	3,900	24,600
Sub - Total	490,501	76,550	413,951

* Through October 1973

VI. PROGRAM

A. Financial

Our expenditures at the end of November have reached Rp. 4,800,000 as estimated. We are pleased to note that our second rupiah payment has been received.

B. Technical

On 30 December 1973 we intend to submit our "Recommendation for Second Priority Feasibility Studies" report as scheduled. Therefore, this coming month will be spent firming up our conclusions and recommendations for this coming report.

On 18 December the Steering Committee will again meet to consider our conclusions concerning the "Recommendation for First Priority Feasibility Studies". At this time we will present our case orally to back up our written opinions.

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— INDONESIA COUNTERPART
- INDONESIA DIRECT. HIRE

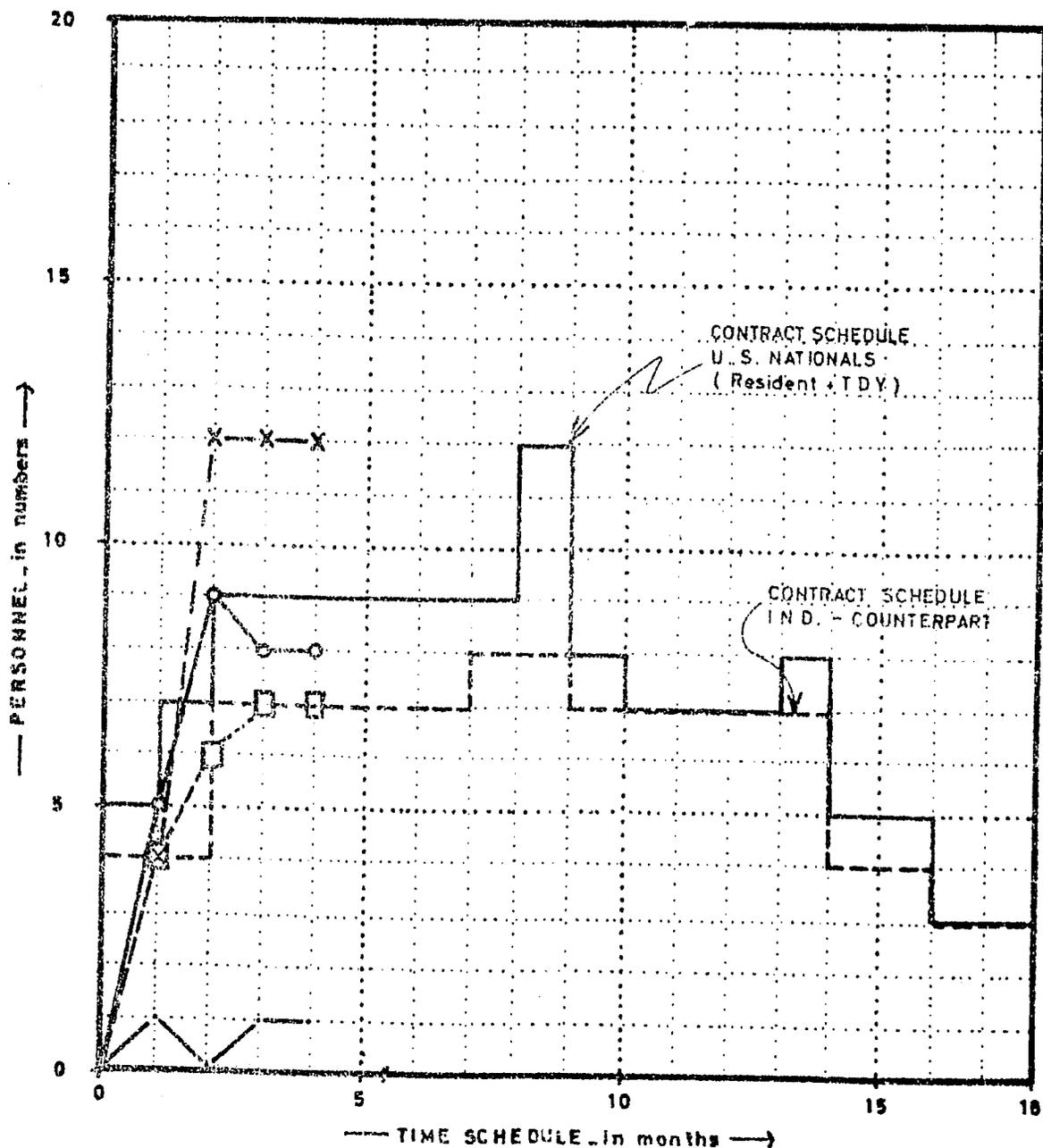


figure No.1_ MANPOWER STRENGTH (for end of period)

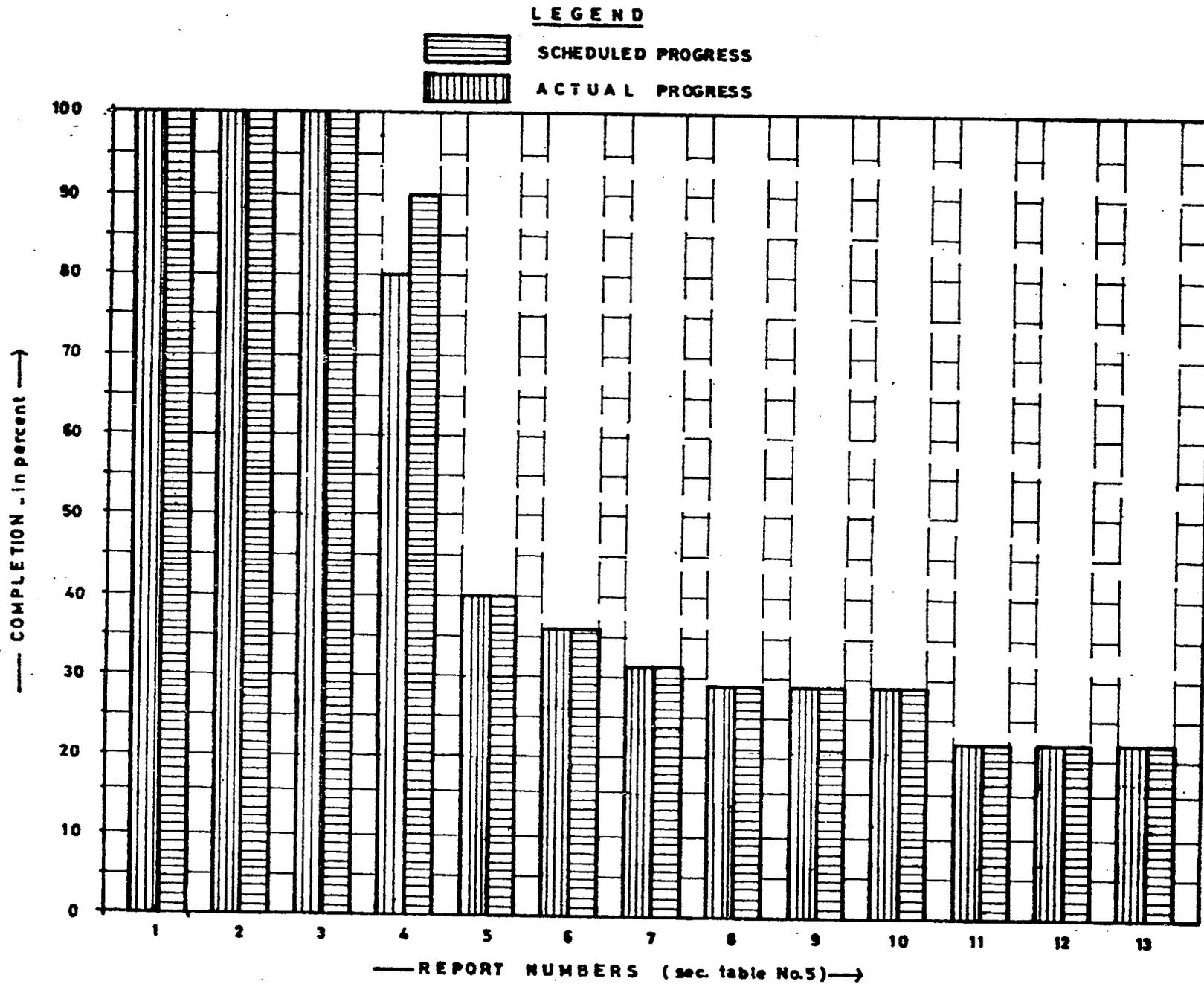


figure No. 2 - ACTUAL VS. SCHEDULED PROGRESS (End of Report Period)

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

INDONESIAN	1973					1974												1975		TOTALS	
	DIRECT HIRE	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	ACTUAL	CONTRACT
1. NUNGKI S.W. - SECR.	0.62	1.52	2.62	3.62																	18.00
2. SRI Z. CEMAR - CLERK	0.62	1.52	2.62	3.62																	18.00
3. SUPIARTI - CLERK	0.29	1.29	2.29	3.29																	18.00
4. ETJIH SUHAR - TYPIST	0.13	1.13	2.13	3.13																	18.00
5. DJOELIANDI - INTER.	-	0.94	1.94	2.94																	18.00
6. SULIANTI - INTER.	-	0.10	1.10	2.10																	18.00
7. DASIRAH - MESS.	-	1.00	2.00	3.00																	18.00
8.																					
9.																					
10.																					
11.																					
12.																					
SUBTOTALS	1.66	7.60	14.70	21.70																	126.00
MISC. SUPPORT																					
1. DRAFTSMEN	4.00	6.00	8.00	10.00																	*
2. MESSENGER	2.00	2.00	4.00	6.00																	*
3. DRIVERS	4.00	15.00	26.00	32.00																	*
4. CUSTODIANS	4.00	2.00	4.00	6.00																	*
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					
SUBTOTALS	14.00	25.00	42.00	54.00																	*
TOTALS	15.66	32.60	56.70	75.70																	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	—
8. Subagjo	Soils	2-10-73	—
9. Iing	Geology	6-11-73	—

B. INDONESIAN - COUNTERPART ASSISTANTS

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

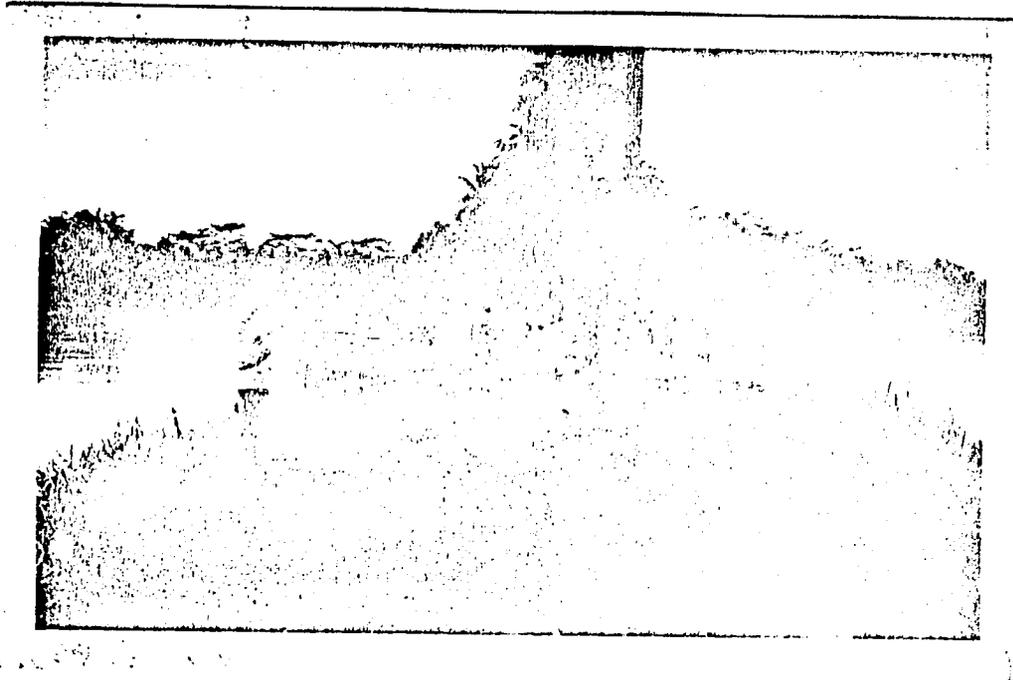
C. INDONESIAN - DIRECT HIRE

<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	—

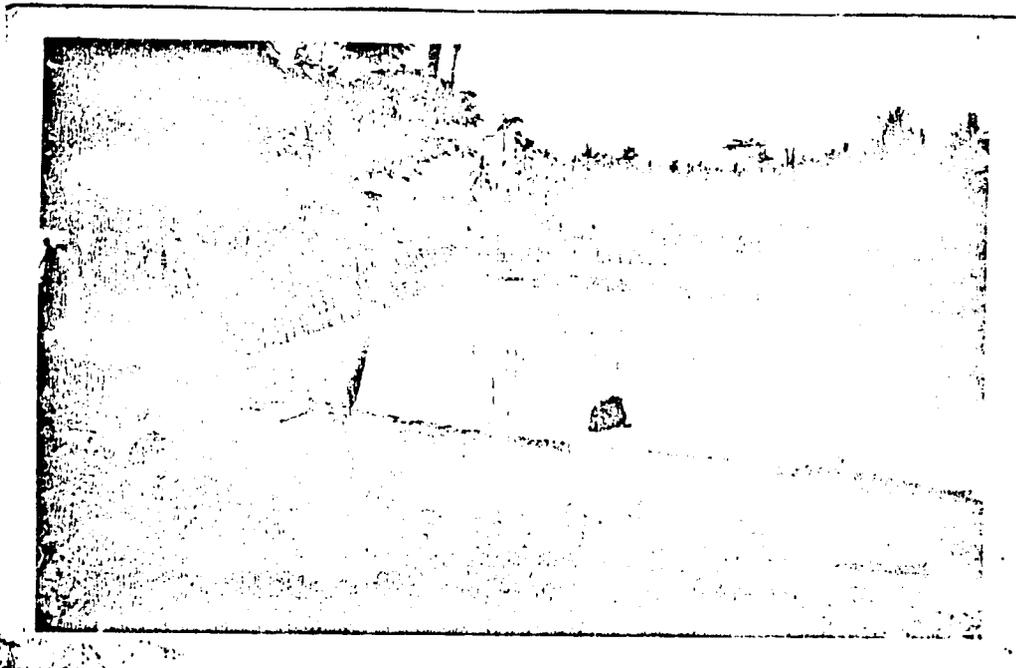
TABLE NO. 5-- SCHEDULE OF SUBMISSIONS

<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 collection	30- 9-73	30- 9-73	2
2a.	2. 3. 2.	Addendum No. 1	---	15-11-73	3.5
3.	2. 5. 1.	1 st Priority Project Evaluation	30-11-73	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



Flood Damage, Citanduy River, 1973



Flood Damage, Citanduy River, 1973



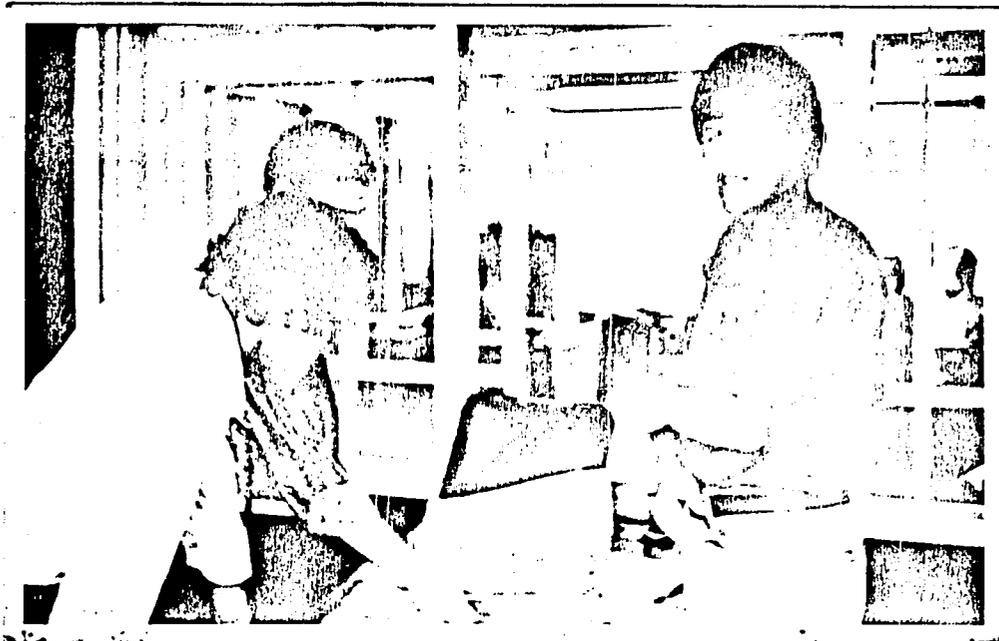
Matengreng Dam Site - Downstream



The Pause That Refreshes



Consultants and Counterpart - Matenggeng Dam Site



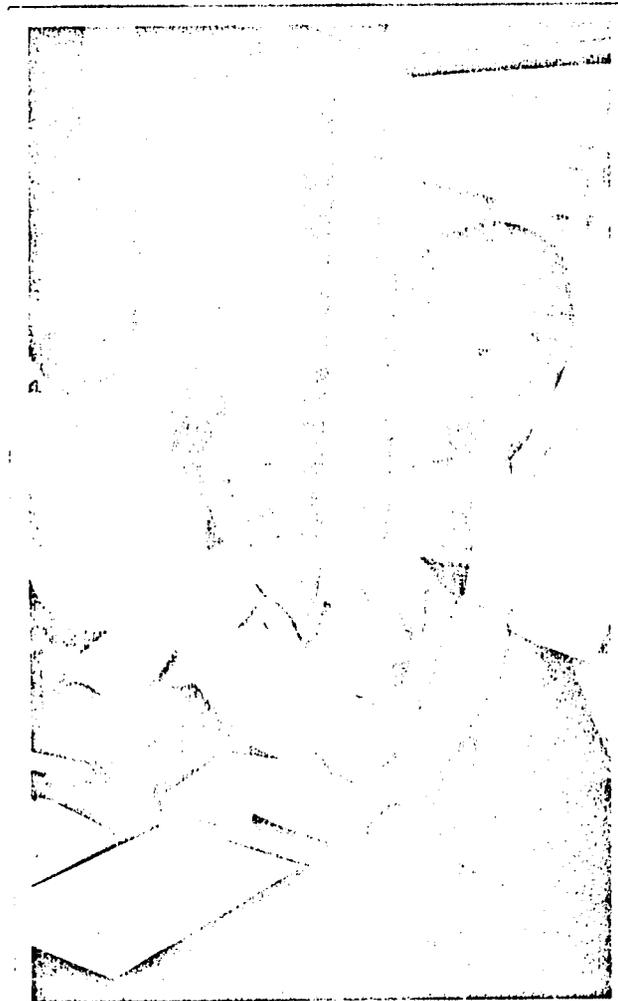
Consultants and Counterpart - Pataruman Office



Inspection of Lower Citanduy River



Consultants and Counterpart
Matenggeng Dam Site



Members of Counterpart Team