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

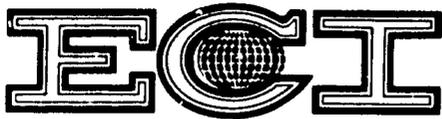
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THE CITANDUY RIVER BASIN
DEVELOPMENT PROJECT

MONTHLY REPORT FOR THE PERIOD
Ending : 31 August 1975

SUBMITTED BY :

ENGINEERING CONSULTANTS, INC.
DENVER, COLORADO USA BANJAR, INDONESIA



ENGINEERING CONSULTANTS, INC.

CABLE ADDRESS :
ECIBANJAR
WEST JAVA
INDONESIA

PROYEK CITANDUY
PATARUMAN
BANJAR, WEST JAVA
INDONESIA

August 31, 1975

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

Our file: 1163/57
MR 8/75

Subject : Monthly Report
Citanduy River Basin
Development Project.

Attn: Director of Rivers

Dear Sir:

We are herewith submitting our twenty fifth monthly report, which covers the month of August 1975. Please note that, in accordance with your recommendations, we have included considerably more detail concerning our actual current progress. We would welcome any additional constructive criticism which you may have to offer.

Yours truly,

Engineering Consultants, Inc.

Gifford E. Rogers
Resident Manager

Encl: Thirty copies (30) of
Progress Report No. 25.

CC:

1. USAID/Jakarta, American Embassy
Jakarta, Republic of Indonesia
Attn: Mr. M. Aleer,
Engineering Section
Six (6) enclosures.
2. Directorate of Rivers, Banjar Office
Attn: Ir. Soebandi Wirosoemarto, Project Manager
Citanduy Project. Five (5) enclosures.
3. ECI/Denver
Attn: Mr. C.M. Langford, Project Sponsor
Three (3) enclosures.
4. ECI/Staff. Banjar.

I. GENERAL

Again we concentrated our major efforts on top priority development project, the comprehensive water management plan for the lower Citanduy/Ciseel River system. In order to not delay loan negotiations, we plan to submit an updated cost estimate by mid-September.

We did not neglect the second priority project, the reclamation of the Segara Anakan. Dr. Turner returned for his second visit to the project area and produced his report on the potential damage to the shrimp and salt water fishing industries in the Cilacap area.

We have also continued our studies of the possible adverse affects by the project on Cilacap harbor and Pangandaran. Our report on project influence on the physical and ecological environments of the Segara Anakan is now being prepared. We propose to submit this report before the end of September.

The first draft of Amendment No.2, economic analyses of the Sidareja and Banjar Plains Projects, has been prepared and submitted to the indicated authorities. It is expected that if the proposal is approved, the final amendment will be signed before the end of September.

II. PERSONNEL

A. Present at last report:

- | | |
|------------------------|-----------------------------|
| 1. Gifford E. Rogers | - Resident Manager |
| 2. Albert E. Hancock | - Construction Management |
| 3. Kenneth E. Boulter | - Soils/Land Classification |
| 4. Saeed A. Rana | - Design Engineer |
| 5. Malcolm J. Crawford | - Irrigation O & M |
| 6. Ralph L. Kerr | - Hydrologist |
| 7. C.L.C. Goss | - Surveyor and Mapper |
| 8. Peter Howard | - Geologist |

B. Arrivals subsequent to last report:

- | | |
|-------------------------|------------------------|
| 1. Dr. R. Eugene Turner | - Marine Biologist |
| 2. Harry Cole | - Chief Civil Engineer |

C. Departures subsequent to last report:

- | | |
|-------------------------|--------------------|
| 1. Dr. R. Eugene Turner | - Marine Biologist |
|-------------------------|--------------------|

D. Scheduled to arrive in September 1975:

- | | |
|------------------|-------------------|
| 1. William Burke | - Farm Management |
|------------------|-------------------|

E. Scheduled to depart in September 1975:

- | | |
|---------------|------------------------|
| 1. Harry Cole | - Chief Civil Engineer |
|---------------|------------------------|

F. Scheduled to arrive at a later date:

1. Max K. Kuehl - Chief Engineer

G. Administrative personnel present:

1. Nungki S.W. - Secretary
2. Pauline Sulianti - Interpreter
3. Susanti - Clerk
4. Irawati - Typist
5. Setiani O.S. - Typist

III. IMPORTANT EVENTS AND FIELD TRIPS

<u>No.</u>	<u>Day of month</u>	<u>Location</u>	<u>Purpose</u>	<u>Personnel</u>
1.	1 & 2	Bandung	Visit Chief of Planning and Design Service	Crawford
2.	5,6,7	Jakarta	Visit project officials	Rogers
3.	6 - 9	Jakarta	Visit heavy equipment supplies	Hancock
4.	9 - 13	Jakarta	Meet Dr. Turner, met with UNDP and Institute of Marine Fisheries	Rogers, Turner, Howard
5.	11 - 14	Yogyakarta	Meet with officials of Gajah Mada University	Boulter, Sambudi, Rachman
6.	14 - 15	Bogor	Meet with officials in Bogor	Turner, Howard
7.	14 - 17	Jakarta	Meet Mr. Cole and visit officials	Rogers
8.	19 - 21	Bandung	Make flight over project area	Howard, Turner, Rana, Kerr, Imam, Subagyo
9.	19	Lakbok	Escort USAID technician on project inspection	Crawford and Jessup (USAID)
10.	21	Ciseel	Escort USAID technician (Jessup)	Boulter and Jessup (USAID)
11.	22	Segara Anakan	Escort USAID technician	Howard and Jessup
12.	26 - 30	Jakarta	Meet with Project and USAID	Rogers
13.	28	Bandung	Meet with Dr. Otto Sumarwoto	Howard

IV. MAJOR PROBLEM AREAS

Administrative problems continue to be our principal obstacle. The delays in obtaining resident visas have finally been overcome and we are confident that such matter will move more smoothly in the future.

We have been assured that our transportation problems will be resolved in September. We hope that this will come about as we must be able to count on dependable transportation.

Another month has passed and we still have not received our materials and supplies from customs. These supplies are badly needed for the proper conduct of the project. We have certified that the equipment will be project property and that the materials will be expended on project business. We sincerely hope that this problem will be solved before the end of the next month.

V. PROGRESS

A. TECHNICAL

1. Dr. Turner, our Marine Biologist, has completed his work and returned to Denver. We are now compiling our complete report, of which Dr. Turner's report will form an Appendix, and it will be published in September. If this report is favorably accepted, we will then proceed with the work plan for the design and pre-construction of the Segara Anakan reclamation project.
2. The work plan report is ready and will be printed as quickly as our mimeograph machine becomes operable.
3. The design criteria manual, in draft form for irrigation and drainage is complete and will be printed and submitted early in September.
4. Work is well along on the preparation of the design criteria manual for flood control. It is expected that this will be printed during the latter part of September.
5. Work on updating the project cost estimate for the lower Citanduy/Ciseel water management scheme continues. We will complete this work, in preliminary form, in time to meet the deadline for submittal to USAID on or before October 1 st.
6. The weather has been kind to us and we have been able to keep our terrestrial survey work on schedule. The same eight crews are still occupied in diversified field work. The traverse of the existing levee system will be completed during September. Until the Segara Anakan reclamation project has been approved, we will continue to concentrate on the first priority sub-project works.

7. The soils investigation aspects of the land reclamation sub-project continue on schedule. Samples are being collected and sent to Bogor for analysis.
8. Hydrological investigations during the past month have been concentrated on the gathering of information required before the flood control design criteria manual can be finalized.

B. ADMINISTRATIVE

The following tables show the status of both the Rupiah and the U.S. dollar accounts. Some 63% of our allotted time has now elapsed. During this time period we have expended 44% of our Rupiah funds and 46% of our U.S. dollar funds. As of the date of this report we have no budgeting problems.

Budget Status - US\$ and Rupiah Accounts

I t e m	Cost (US\$)		
	Budgeted	Actual	Balance
1. Resident Personnel, Base Pay	470,020	222,000	248,020
2. Overseas Differential	125,105	53,000	72,105
3. Overseas Overhead	332,533	140,000	192,533
4. TDY and Denver Personnel, Base Pay	206,350	107,000	99,350
5. TDY and Denver Overhead	175,520	77,000	98,520
6. Special Consultants	20,000	9,000	11,000
7. Travel	153,000	55,000	98,000
8. Per Diem	6,726	3,700	3,026
9. Transportation	45,800	23,000	22,800
10. Other Direct Costs	55,400	36,000	19,400
11. Ministry Personnel in Denver	76,000	30,000	46,000
12. Special Equipment	99,500	38,000	61,500
13. Fixed Fee	185,760	99,000	86,760
T o t a l	1,951,714	892,700	1,059,014

I t e m	Cost (Rp)		
	Budgeted	Actual	Balance
1. Local Per Diem	28,515,000	12,339,000	16,176,000
2. Cables and Telephone	2,600,000	1,214,046	1,385,954
3. Postage	2,600,000	890,558	1,709,442
4. Reproduction and Printing	10,500,000	6,522,443	3,977,557
5. Supplies and Materials	5,600,000	2,938,163	2,661,837
6. Miscellaneous	3,200,000	2,152,852	1,047,148
7. In-country shipping	1,500,000	243,794	1,236,206
8. Personnel	20,300,000	7,326,828	12,973,172
Withdrawn	-	(372,000)	372,000
T o t a l	74,815,000	33,255,684	41,559,316

VI. PROGRAM

1. If the mimeograph facilities become available, we plan to submit the following reports during the month of September:
 - a. Design criteria - Irrigation and Drainage
 - b. Project Work Schedule
 - c. Special Report on Segara Anakan
 - d. Updated cost estimates for lower Citanduy/Cisceel sub-project
2. William Burke, Farm Management, will arrive in September. He will immediately proceed to locate possible sites for upstream land management demonstration plots. On those sites found to be acceptable he will then initiate the organization of these demonstration plots.
3. Soils and land classification will continue as planned.
4. Hydrological work will continue as planned.
5. Heavy emphasis will continue to be placed on terrestrial surveys in order to accomplish a maximum amount of work before the inclement rainy weather begins.
6. Miss Susanti, administrative employee who was hired in June, has successfully completed her three-months probation period and will now become full time staff. Two other typists, Miss Irawati and Miss Setiani, who joined in August, are now working on their probationary period.

VII. APPENDICES

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Table 1 - MANPOWER SCHEDULE
(Expatriate Specialists - Cumulative Man - Months)

DESCRIPTION		TOTAL TO 31/1/75	1 9 7 5												TOTALS	
POSITION TITLE	NAME		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ACT.	CON.	
R E S I D E N T S T A F F																
RES. MANAGER	ROGERS	18.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00						40.00	
CIV. ENGINEER	SCHOENLEBER	13.20	-	-	-	-	-	-	-	-	-	-	-	13.20	16.00	
SURVEYOR	GOSS	-	-	-	-	0.50	1.50	2.50	3.50						21.00	
HYDROLOGIST	SAUNDERS	10.30	1.00	2.00	3.00	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	13.80	14.00	
HYDROLOGIST	KERR	-	-	-	-	-	0.80	1.80	2.80						19.00	
IRR. & DRAIN.	BOGAN	16.50	0.70	1.70	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	19.00	17.00	
IRR. & DRAIN.	-	-	-	-	-	-	-	-	-						19.00	
IRR. O & M	CRAWFORD	-	-	-	-	0.70	1.70	2.70	3.70						19.00	
HYD. DESIGN	RANA	-	-	-	-	0.70	1.70	2.70	3.70						19.00	
MAT. ENGINEER	HANCOCK	-	-	-	1.00	2.00	3.00	4.00	5.00						21.00	
GEOLOGIST	SCOTT	10.10	-	-	-	-	-	-	-	-	-	-	-	10.10	7.00	
GEOLOGIST	HOWARD	-	-	-	0.90	1.90	2.90	3.90	4.90						17.00	
AGRICULTURIST	EDWARDS	12.00	-	-	-	-	-	-	-	-	-	-	-	12.00	12.00	
FARM MNGR.	-	-	-	-	-	-	-	-	-						17.00	
SOIL SCIENTIST	GARDNER	12.00	-	-	-	-	-	-	-	-	-	-	-	12.00	12.00	
SOIL SCIENTIST	BOULTER	-	-	-	-	0.50	1.50	2.50	3.50						20.00	
ECONOMIST	STRUTHERS	12.50	-	-	-	-	-	-	-	-	-	-	-	16.50	16.00	
SUB - TOTAL		108.60	2.70	5.70	10.40	16.30	24.10	32.10	40.10	-	-	-	-	-	299.00	
D E N V E R & T D Y S T A F F																
PROJ. SPONSOR	LANGFORD	1.70	-	-	-	-	-	0.40	0.40	0.40	0.40	0.40	0.40	0.40	4.00	
PLAN. ENGINEER	WILL	1.00	-	-	-	-	-	-	-	-	-	-	-	1.00	6.00	
PLAN. ENGINEER	OTTER	-	-	0.10	1.00	1.00	1.00	1.00	1.00						4.00	
CHIEF ENGINEER	KUEHL	1.60	-	-	-	-	-	-	-						3.50	
CHIEF CIV. ENGR.	COLE	1.90	-	-	-	-	-	-	0.50						2.00	
HYDROLOGIST	AU YEUNG	2.50	-	-	-	-	-	-	-	-	-	-	-	2.50	4.00	
RIVER ENGINEER	STEVENS	3.00	-	0.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	9.00	
LAND. USE	FLETCHER	4.00	-	-	-	-	-	-	-						8.00	
MECH. ENGINEER	ISMERT	-	-	-	-	-	-	-	-						9.00	
ENVIRON	CHURCHILL	1.90	-	-	-	-	-	-	-						1.50	
FISH. EXPERT	-	-	-	-	-	-	-	-	-							
SPECIALIST	STAFF	-	-	-	-	-	-	-	-							
SUB - TOTAL		17.60	-	0.20	2.10	2.10	2.10	2.10	2.60						51.00	
S P E C I A L C O N S U L T A N T S																
M. BIOLOGIST	TURNER	-	-	-	-	0.60	0.60	1.20							2.00	
FOUND. SPEC.	BURKE	0.70	-	-	-	-	-	-	-						2.00	
SUB - TOTAL		0.70	-	-	-	0.60	0.60	1.20							4.00	
TOTAL		126.90						43.90							354.00	

**Table II - MANPOWER SCHEDULE
(Administrative Staff - Cumulative Man - Months)**

DESCRIPTION		TOTAL TO 31/1/75	1 9 7 5												TOTALS	
POSITION TITLE	NAME		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ACT.	CON.	
SECRETARY	NUNGKI. S.W.	17.60	1.00	2.00	3.00	4.00	5.00	6.00	7.00						40.00	
INTERPRETER	SULIANTI	16.10	1.00	2.00	3.00	4.00	5.00	6.00	7.00						40.00	
INTERPRETER	DJOELIANDI	8.90	—	—	—	—	—	—	—	—	—	—	—	8.90	18.00	
CLERK	SUPIARTI	17.30	1.00	2.00	3.00	4.00	5.00	6.00	6.00	6.00	6.00	6.00	6.00	23.30	40.00	
CLERK	SRI Z. O.	17.60	—	—	—	—	—	—	—	—	—	—	—	17.60	18.00	
TYPIST	ETJIH S.	17.10	1.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	19.10	18.00	
TYPIST	SUSANTI	—	—	—	—	—	1.00	2.00	3.00						18.00	
MESSENGER	DASIRAN	17.00	—	—	—	—	—	—	—	—	—	—	—	17.00	40.00	
TYPIST	IRAWATI	—	—	—	—	—	—	—	1.00						15.00	
TYPIST	SETIANI	—	—	—	—	—	—	—	0.70						15.00	
T O T A L		111.60	4.00	8.00	11.00	14.00	18.00	22.00	26.70							

TABLE III - ARRIVALS AND DEPARTURES

(ECI)

Name	Position	Arrived	Departed
<u>Expatriate Specialists</u>			
1. G.E. Rockwell	President, ECI	14/10/73	19/10/73
2. C.M. Langford	Project Sponsor	23/ 7/73	4/ 8/73
		27/ 1/74	8/ 2/74
		7/ 7/74	23/ 7/74
		5/ 1/75	18/ 1/75
		10/ 7/75	22/ 7/75
3. G.E. Rogers	Resident Manager	30/ 7/73	1/ 6/75
		8/ 7/75	-
4. W.J. Schoenleber	Civil Engineer	1/ 8/73	6/ 9/74
5. C.L.G. Goss	Surveyor	18/ 5/75	-
6. H.P. Saunders	Hydrologist	17/ 3/74	26/ 4/75
7. R.L. Kerr	Hydrologist	6/ 6/74	-
8. D.L. Bogan	Irrig. & Drainage	12/ 8/73	15/12/74
		7/ 2/75	20/ 4/75
9. M.J. Crawford	Irrigation O & M	10/ 5/75	-
10. S.A. Rana	Design Engineer	10/ 5/75	-
11. A.E. Hancock	Const. Management	3/ 4/75	-
12. D.P. Scott	Geologist	15/ 9/73	17/ 4/74
		19/ 6/74	19/ 9/74
13. P. Howard	Geologist	4/ 4/74	-
14. R.T. Edwards	Agriculturist	16/ 9/73	31/ 8/74
15. R.A. Gardner	Soil Scientist	15/ 9/73	31/ 8/74
16. K.E. Boulter	Soil Scientist	17/ 5/75	-
17. R.E. Struthers	Economist	15/ 9/73	18/ 1/75
18. E. Will	Planning Engr.	15/ 9/73	15/10/73

Name	Position	Arrived	Departed
Expatriate Specialists			
19. P.N. Otter	Planning Engr.	30/ 3/75	25/ 4/75
20. M.K. Kuehl	Chief Engineer	26/ 8/73	18/ 9/73
		29/ 3/74	21/ 4/74
21. H.N. Cole	Chief Civil Engineer	22/ 6/74	17/ 8/74
		16/ 8/75	-
22. Yin Au Yeung	Hydrologist	25/ 8/73	13/10/73
		9/ 3/74	12/ 4/74
23. M.A. Stevens	River Morph.	27/10/73	1/12/73
		6/ 7/74	5/ 9/74
		30/ 3/74	2/ 5/75
24. H.C. Fletcher	Land Management	13/ 1/74	12/ 5/74
25. Dick Churchill	Environment	17/ 2/74	3/ 4/74
26. H.W. Burke	Geologist	6/ 7/74	28/ 7/74
27. R.D. Turner	N. Biologist	11/ 6/75	25/ 6/75
		10/ 8/75	-
Administrative Staff			
1. Bungki S.W.	Secretary	13/ 8/73	-
2. Pauline Sulianti	Interpreter	28/ 9/73	-
3. Sylvia Djoeliandi	Interpreter	13/ 9/73	30/ 6/74
4. Supiarti	Clerk	28/ 8/73	1/ 8/75
5. Sri Z. Oemar	Clerk	13/ 8/73	31/ 1/75
6. Etjih Suhari	Typist	29/ 8/73	31/ 3/75
7. Susanti	Typist	1/ 6/75	-
8. Irawati	Typist	4/ 8/75	-
9. Setiani O.S.	Typist	11/ 8/75	-
10. Dasiran	Messenger	1/ 9/73	31/ 1/75

TABLE IV - ARRIVALS AND DEPARTURES

(Counterpart Team)

Name	Position	Arrived	Depart
1. Ir. Soebandi Wirosoemarto	Team Leader	1/4/75	-
2. Ir. Sriyono Mitrosutarno	Deputy Team Leader I	1/4/75	
3. Ir. Satriyo Untung	Deputy Team Leader II Hydraulic Structures	1/4/75	
4. Ir. Imam Hidayat	Gen. Planning/ Hydrology Chief Planning Eng.	1/4/75	
5. Ir. Siswoko	Irrigation/Drainage	1/6/75	
6. Ir. Bare Tjupang	Surveying/Mapping	1/4/75	Part time
7. Drs. Subagyo	Surveying/Mapping	1/4/75	
8. Ir. M. Djihad	Const. Material Eng. Chief Engineer	1/5/75	
9. Drs. Y. Sitanggang	Const. Material Eng.	1/5/75	
10. Ir. Sambudhi Sudibyo	Soil/Land Class.	1/4/75	
11. Drs. M. Rianto	Land Use/Management	1/6/75	
12. Ir. Soedaryanto H.S.	Geology	1/4/75	
13. R. Abdul Karno	O & M	1/7/75	
14. Drs. Hudadi	General Affairs/ Finance	1/4/75	Part time
15. Hendro Pradono S.H.	General Affairs/ Finance	1/4/75	Part time

Assistant Counterparts

1. Djoko Subarkah	Irrigation/Drainage	1/6/75	
2. Tristiyar D.S.	Const. Material Eng.	1/5/75	
3. B. Suprobowasono	Hydraulic Structures	1/5/75	31/7/75
4. Martono	Geology Chief Engineering	1/4/75	
5. Sutarto	Hydraulic Structures	1/8/75	

Name	Position	Arrived	Depart
6. Rachman Sutanto	Soil/Land Class	1/7/75	
7. Agus Wardoyo	Surveying/Mapping	1/8/75	
8. Drađjat Suhardjo	Surveying/Mapping	1/8/75	
Draftsmen			
1. Dasiran	Draftsman	1/4/75	
2. Walaman	Draftsman	1/7/75	
3. M. Latief	Draftsman	1/7/75	
4. Maman	Draftsman	1/7/75	

TABLE V - SCHEDULE OF SUBMITTALS
(First Amendment Only)

<u>REPORT NO.</u>	<u>SUBJECT</u>	<u>DUE</u>	<u>SUBMITTED</u>	<u>MONTHS</u>
1.	Work Plan	1/ 7/75*		5
2.	Design Criteria - Flood Control	1/ 9/75		7
3.	Design Criteria - Irrig.& Drain.	1/ 9/75		7
4.	Design Criteria - Levees, Structures, Canals	1/12/75		10
5.	Specifications - Levees	1/ 2/76		12
6.	O & M Manual, Pilot Project	1/ 2/76		12
7.	Land Classification	1/ 2/76		12
8.	Specifications - Irrigation and Drainage	1/ 4/76		14
9.	O & M Manual, Irrigation	1/ 6/76		16
10.	Specifications - Canals and Structures	1/ 6/76		16
11.	O & M Manual, Flood Control	1/ 8/76		18
12.	Specifications - Civil, Mechanical, Electrical (Draft)	1/ 8/76		18
13.	Final Design Report - Irriga- tion and Drainage	1/10/76		20
14.	Segara Anakan Land Classifica- tion	1/10/76		20
15.	Final Design Report - Flood Control	1/11/76		21
16.	Specifications - Civil, Mechanical, Electrical	1/11/76		21
17.	Final Design Report - Segara Anakan	1/11/76		21

* Time extension granted by Steering Committee