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

2/p.

THE CITANDUY RIVER BASIN  
DEVELOPMENT PROJECT

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MONTHLY REPORT FOR THE PERIOD

Ending : 31 July 1975

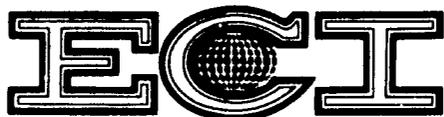
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SUBMITTED BY :

ENGINEERING CONSULTANTS, INC.

DENVER, COLORADO USA

BANJAR, INDONESIA



ENGINEERING CONSULTANTS, INC.

CABLE ADDRESS :  
ECIBANJAR  
WEST JAVA  
INDONESIA

PROYEK CITANDUY  
PATARUMAN  
BANJAR, WEST JAVA  
INDONESIA

July 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: 1163/48  
MR 7/75  
Subject : Monthly Report  
Citanduy River Basin  
Development Project.

Attn: Director of Rivers

Dear Sir:

We are herewith submitting our twenty fourth monthly report, which covers the month of July 1975. This is somewhat of a milestone for it marks the end of the second year in which ECI has been associated with the Citanduy Project. We have enjoyed this association and prize highly the professional and social contracts made to date. It is our wish that this association may continue for many more years.

Yours truly,

Engineering Consultants, Inc.

Encl: Thirty copies (30) of  
Progress Report No. 24.

CC:

1. USAID/Jakarta, American Embassy  
Jakarta, Republic of Indonesia  
Attn: Mr. McAleer,  
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

A handwritten signature in cursive script that reads "Gifford E. Rogers".  
Gifford E. Rogers  
Resident Manager

## I. GENERAL

As will be noted by our comments in subsequent sections, we have concentrated on work on the top priority project, the comprehensive water management plan for the lower Citanduy/Ciseel River system. Since USAID officials have indicated an interest in considering this project for construction financing, we have worked on updating cost estimates to enable loan negotiations to proceed without delay.

However, work on the Segara Anakan project has not been slighted. Work continues on the investigations to determine the effects of the project on salt water marine life, Cilacap harbor, and Pangandaran.

We were requested to prepare a proposal for conducting feasibility studies on both the Sidareja and the Banjar Plains Areas. A project description and scope of work has been prepared and submitted. Since USAID has indicated that October 1, 1975 is the deadline for any proposals to use additional loan funds, we must work quickly on concluding project negotiations.

## II. PERSONNEL

### A. Present at last report:

- |                         |                             |
|-------------------------|-----------------------------|
| 1. Albert E. Hancock    | - Construction Management   |
| 2. Peter Howard         | - Geologist                 |
| 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.G. Goss          | - Surveyor and Mapper       |
| 8. Dr. R. Eugene Turner | - Marine Biologist          |

### B. Arrivals subsequent to last report:

- |                      |                    |
|----------------------|--------------------|
| 1. Cecil M. Langford | - Project Sponsor  |
| 2. Gifford E. Rogers | - Resident Manager |

### C. Departures subsequent to last report:

- |                         |                    |
|-------------------------|--------------------|
| 1. Cecil M. Langford    | - Project Sponsor  |
| 2. Dr. R. Eugene Turner | - Marine Biologist |

### D. Scheduled to arrive in August 1975:

- |                         |                        |
|-------------------------|------------------------|
| 1. M.K. Kuehl           | - Chief Engineer       |
| 2. Harry Cole           | - Chief Civil Engineer |
| 3. Dr. R. Eugene Turner | - Marine Biologist     |

E. Scheduled to depart in August 1975:

N o n e

F. Scheduled to arrive at a later date:

N o n e

G. Administrative personnel present:

- |                     |               |
|---------------------|---------------|
| 1. Nungki S.W.      | - Secretary   |
| 2. Pauline Sulianti | - Interpreter |
| 3. Supiarti         | - Clerk       |
| 4. Susanti          | - 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	Jakarta	Visit client for administrative purposes	R.L. Kerr
2.	1	Segara Anakan	Obtain updated soundings, west end	Howard, Rianto
3.	2	South Lakbok	Inspect irrigation and drainage problems	Rana, Satriyo
4.	2	Citanduy Canal	Inspect site of break	Crawford, Karno
5.	3	Bandung	Visit DPMA	Kerr, Imam
6.	3	Segara Anakan	Inspect west dike location	Howard, Goss Martono
7.	4	North Lakbok	Inspect irrigation and drainage problems	Rana, Goss Crawford, Boulter
8.	4	Kalipucang	Inspect western Segara Anakan closures	Hancock
9.	7	Padaringan	Inspect pilot irrigation site	Crawford, Boulter Rana, Goss, Hasan Rianto
10.	7-9	Jakarta	Visit client on project business	Hancock
11.	8	Langensari	Inspect pilot irrigation site and	Crawford, Rianto
12.	8	South Lakbok	Accompany USAID officials to inspect irrigation and drainage	Rana, McAleer, Howard
13.	8-10	Bogor	Meet with Soils Specialists	Boulter, Sambudi
14.	8-10	Jakarta	Meet with client officials	Rogers
15.	9	Langensari Citanduy Canal	Conduct Messrs. McAleer, Smith, Jessup (USAID/Jakarta) on inspection trip.	Crawford, Rianto

III. Important Events and Field Trips (Continued).

<u>No.</u>	<u>Day of month</u>	<u>Location</u>	<u>Purpose</u>	<u>Personnel</u>
16.	9	Tasikmalaya	Visit irrigation officials	Rana, Siswoko
17.	9-10	Gilacap	Conduct Messrs. McAleer, Smith, and Jessup on inspection of Segara Anakan	Howard, Imam
18.	10	Lakbok	Inspect Citanduy Canal break	Crawford, Rianto, Karno.
19.	11	Bandung	Steering Committee meeting	Langford, Rogers, Hancock, Boulter, Howard, Kerr.
20.	11	Pataruman	Inspect desilting works and Citanduy Canal break	Crawford, Karno
21.	13	Cilacap	Visit Nusa Kambangan	Hancock
22.	14	Padaringan, Langensari, Lakbok	Inspect pilot irrigation farms and Citanduy Canal break	Langford, Crawford, Boulter, Rana, Rianto, Sambudi.
23.	15	Lakbok	View Canal gaging activities below desilting basin	Crawford, Karno
24.	15	North Lakbok	Inspect irrigation and drainage works	Langford, Rana, Crawford, Boulter.
25.	17	Ciamis	Visit irrigation and agricultural officials	Crawford, Rianto, Karno, Sambudi, Sutanto.
26.	17-22	Jakarta	Visit client officials	Langford, Rogers
27.	18	Manareja	Inspect swamp and flood retention area	Rana, Kerr
28.	21-23	Bandung	Visit DPMA, LMJ, and Building Department Soil and aggregate testing facilities	Howard, Soedaryanto, Sitanggang.

III. Important Events and Field Trips (Continued)

<u>No.</u>	<u>Day of month</u>	<u>Location</u>	<u>Purpose</u>	<u>Personnel</u>
29.	21-23	Bandung	Visit P.T. Ahrend, P.T. Lindeteves, and DPMA	Kerr, Imam
30.	22	Lower Citanduy	Inspect flood levees	Crawford, Rianto, Karno.
31.	23	Kalipucang	Inspect proposed Citanduy River diversion site	Crawford, Hancock, Rana
32.	23-24	Cilacap	Visit Australian and Fluor officials	Hancock
33.	30	Bandung	Visit DPMA	Kerr, Imam
34.	30-31	Cilacap	Visit location of east dike and borrow area	Howard
35.	31	Bandung	Visit O&M Division of Ministry of Public Works	Crawford, Rianto

#### IV. MAJOR PROBLEM AREAS

Administrative problems continue to plague us. Perhaps the most frustrating is the failure to obtain resident visas for permanent staff dependents. This has worked a real hardship, for it affects both the technician as well as his dependents. Mr. Kerr, our Hydrologist, came to the project in June with the express understanding that approval of his wife's visa would soon follow. As of the date of this report, the Kerr family visas still have not been approved. Such a prolonged delay is entirely out of proportion and we sincerely hope that this trouble spot will soon be removed.

Another problem, and one which has been mentioned in the last few monthly reports, is that of inadequate transportation. We badly need our pick-up truck and our personnel carrier. The problem will be more acute when the balance of our staff arrives.

Finally, we are experiencing difficulty in clearing our company materials and supplies through customs. A large shipment of badly needed supplies has been in customs now for more than three months. Each day of delay further compounds the adverse effects; the demurage charges continue to mount and we must make do without these materials and supplies. We hope that this matter can also be corrected in the very near future.

## V. PROGRESS

### A. TECHNICAL

1. We have about completed our additional investigation for the Segara Anakan. Dr. Turner, our Marine Biologist, will return in August to complete his survey and analysis. The formal report of our findings is expected to be published before the end of August. If this report is favorably accepted, and the necessary clearance is granted, we will then make the final work plan for continuing with the design and pre-construction of the Segara Anakan reclamation project.
2. At the Steering Committee meeting held in Bandung on July 11th, we requested a time extension for the completion of our work plan. The Committee extended the time to mid-August. We have been concentrating on this important document so that we can meet our revised deadline.
3. Terrestrial survey work continues on schedule. We now have eight field crews occupied in such activities as traverse of existing levees, profiles and cross-sections of existing levees, flow lines and cross-sections of drainage and irrigation ditches, and topography of irrigable areas.
4. Work is well along on the preparation of the design criteria manual for flood control.
5. Work is well along on the preparation of the design criteria manual for irrigation and drainage.
6. Officials of USAID have requested an updated project cost estimate on the lower Citanduy/Ciseel water management scheme. We have promised to deliver this estimate by October 1, 1975. We are now

- rechecking the cost of all equipment. With the arrival of our Harry Cole, our Chief Civil Engineer, in late August, we will be able to concentrate on the completion of this estimate as promised.
7. Satisfactory progress has been achieved in the land reclamation work. Soil samples have been delivered to the Soils Institute in Bogor. Mr. Boulter, our Soil Scientist, will hold a meeting in August with Gadjadara University officials. The object of this meeting is to ascertain how the agricultural college can participate in our soils and land classification work.
  8. Geological and construction materials investigations proceed satisfactorily. Since the project's drill rig and soil sampling and testing equipment can not possibly be expected to arrive from the U.S.A. before the end of the year, arrangements are being made for provisional listing programs to be carried out at available laboratories in Bandung.
  9. Stream gaging, sediment sampling, and other hydrological programs are proceeding in a satisfactory manner. Preparations are underway to have the proper equipment ready for gaging programs during the high river stages of the coming rainy season.

#### B. ADMINISTRATIVE

The following tables show the status of both the Rupiah and the U.S. dollar accounts. The Rupiah statement is exact as of July 31, 1975. There is a lag in the preparation of the U.S. dollar invoices. This lag is usually two months. Hence, the dollar account is accurate to two months ago, with the last two months estimated.

Some 60% of our allotted time has now passed. During this time we have expended 41% of our Rupiah funds and about 43% of our Rupiah funds and about 43% of our Dollar funds. As of the date of this report, we have no budgetary problems.

Budget Status - US\$ and Rupiah Accounts

I t e m	Cost (US\$)		
	Budgeted	Actual	Balance
1. Resident Personnel, base pay	470,020	202,300	267,720
2. Overseas Differential	125,105	49,100	76,005
3. Overseas Overhead	332,533	126,700	205,833
4. TDY and Denver office personnel, base pay	206,350	106,000	100,350
5. TDY and Denver overhead	175,520	75,400	100,120
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	21,000	24,800
10. Other direct costs	55,400	36,000	19,400
11. Ministry Personnel in Denver	76,000	27,300	48,700
12. Special equipment	99,500	38,000	61,500
13. Fixed Fee	185,760	95,700	90,060
T o t a l	1,951,714	845,200	1,106,514

I t e m	Cost (Rp)		
	Budgeted	Actual	Balance
11. Local Per Diem	28,515,000	10,972,500	17,542,500
2. Cables and telephone	2,600,000	1,112,611	1,487,389
3. Postage	2,600,000	855,518	1,744,482
4. Reproduction	10,500,000	5,921,105	4,578,895
5. Supplies and materials	5,600,000	2,839,133	2,760,867
6. Miscellaneous	3,200,000	2,074,247	1,125,753
7. In-country shipping	1,500,000	185,031	1,314,969
8. Personnel	20,300,000	7,056,442	13,243,558
Withdrawn	-	(372,000)	372,000
T o t a l	74,815,000	30,644,587	44,170,413

## VI. PROGRAM

1. We will continue to concentrate on the preparation of up dated cost estimates for the lower Citanduy/Ciseel project as requested by USAID.
2. Preliminary investigations for the Segara Anakan project will continue. It is hoped that final decision concerning this proposed project will be forthcoming in September.
3. Heavy emphasis will be placed on territorial surveys so that a maximum of work may be accomplished before the heavy rains begin in September and October.
4. Soils and land classification will continue as planned.
5. One of our administrative employees, Miss Supiarti, is resigning as of the end of July. She will be replaced by Miss Susanti, who was hired in June. Two more typists will report to work in August to assist us in the efficient handling of our work load.

## VII. APPENDICES

Table I - Manpower Schedule (Expatriate Specialists - Cumulative Man-Months)	A-1
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**Table I - 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.	
<b>R E S I D E N T S T A F F</b>																
RES. MANAGER	ROGERS	18.00	1.00	2.00	3.00	4.00	5.00	6.00							40.00	
CIV. ENGINEER	SCHOENLEBER	13.20	-	-	-	-	-	-	-	-	-	-	-	13.20	16.00	
SURVEYOR	GOSS	-				0.50	1.50	2.50							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							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							19.00	
HYD. DESIGN	RANA	-	-	-	-	0.70	1.70	2.70							19.00	
MAT. ENGINEER	HANCOCK	-			1.00	2.00	3.00	4.00							21.00	
GEOLOGIST	SCOTT	10.10														
GEOLOGIST	HOWARD	-			0.90	1.90	2.90	3.90							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							20.00	
ECONOMIST	STRUTHERS	12.50	-	-	-	-	-	-	-	-	-	-	-	16.50	16.00	
<b>SUB - TOTAL</b>		<b>108.60</b>	<b>2.70</b>	<b>5.70</b>	<b>10.40</b>	<b>16.30</b>	<b>24.10</b>	<b>32.10</b>							<b>299.00</b>	
<b>D E N V E R &amp; T D Y S T A F F</b>																
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	0.90	0.90	0.90	0.90							4.00	
CHIEF ENGINEER	KUEHL	1.60	-	-	-	-	-	-							3.50	
CHIEF CIV. ENGR.	COLE	1.90	-	-	-	-	-	-							2.00	
HYDROLOGIST	AU YEUNG	2.50	-	-	-	-	-	-	-	-	-	-	-	2.50	4.00	
RIVER ENGINEER	STEVENS	3.00	-	0.10	1.00	1.00	1.00	1.00							9.00	
LAND - USE	FLETCHER	4.00	-	-	-	-	-	-							8.00	
MECH. ENGINEER	ISMERT	-	-	-	-	-	-	-							9.00	
ENVIRON	CHURCHILL	1.90	-	-	-	-	-	-							1.50	
FISH. EXPERT	-	-	-	-	-	-	-	-								
SPECIALIST	STAFF	-	-	-	-	-	-	-								
<b>SUB - TOTAL</b>		<b>17.60</b>	<b>-</b>	<b>0.20</b>	<b>1.90</b>	<b>1.90</b>	<b>1.90</b>	<b>2.30</b>							<b>51.00</b>	
<b>S P E C I A L C O N S U L T A N T S</b>																
M. BIOLOGIST	TURNER	-	-	-	-	-	0.60	0.60							2.00	
FOUND. SPEC.	BURKE	0.70	-	-	-	-	-	-							2.00	
<b>SUB - TOTAL</b>		<b>0.70</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.60</b>	<b>0.60</b>							<b>4.00</b>	
<b>TOTAL</b>		<b>126.90</b>													<b>354.00</b>	

**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							40.00	
INTERPRETER	SULIANTI	16.10	1.00	2.00	3.00	4.00	5.00	6.00							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							21.00	
MESSENGER	DASIRAN	17.00	—	—	—	—	—	—	—	—	—	—	—	17.00	40.00	
<b>TOTAL</b>		111.60	4.00	8.00	11.00	14.00	18.00	22.00								

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. M.P. Saunders	Hydrologist	17/ 3/74	26/ 4/75
7. R.L. Kerr	Hydrologist	6/ 6/74	-
8. D.E. Bogan	Irrig. & Drainage	12/ 8/73	15/12/74
		7/ 2/75	20/ 2/74
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
19. P.N. Otter	Planning Engr.	30/ 3/75	25/ 4/75

Name	Position	Arrived	Departed
20. M.K. Kuehl	Chief Engineer	26/ 8/73	18/ 9/73
		29/ 3/74	21/ 4/74
21. H.N. Cole	Chief Civil Engr.	22/ 6/74	17/ 8/74
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/ 3/75	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.E. Turner	M. Biologist	11/ 6/75	25/ 6/75

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Administrative Staff

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1. Nungki S.W.	Secretary	13/ 8/73	-
2. Pauline Sulianti	Interpreter	28/ 9/73	-
3. Sylvia Djoeliandi	Interpreter	3/ 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 Sukari	Typist	29/ 8/73	31/ 3/75
7. Susanti	Typist	1/ 6/75	-
8. Dasiran	Messenger	1/ 9/73	31/ 1/75

TABLE IV - ARRIVALS AND DEPARTURES  
(Counterpart Team)

Name	Position	Arrived	Depart
1. Ir. Scebandi 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. Sitanggung	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
<u>Assistant Counterparts</u>			
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	Departed
6. Rachman Sutanto	Soil/Land Class.	1/7/75	
7. Agus Wardoyo	Surveying/Mapping	1/8/75	
8. Dradjat Suhardjo	Surveying/Mapping	1/8/75	

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Draftsmen

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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</u>	<u>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