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ISN-319

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REPUBLIC OF THE PHILIPPINES

MINISTRY OF AGRARIAN REFORM

MONTHLY PROGRESS REPORT

FOR THE

PERIOD ENDING OCT. 15, '81

BICOL INTEGRATED AREA DEVELOPMENT II

BULA - MINALABAC LAND CONSOLIDATION PROJECT

PROJECT MANAGEMENT OFFICE

MATAOROC, MINALABAC, CAMARINES SUR

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Republic of the Philippines
MINISTRY OF AGRARIAN REFORM
Bicol Integrated Development Area II
Bula-Minalabac Land Consolidation Project
Mataeroc, Minalabac, Camarines Sur

Oct. 22, 1981

FOR : THE HONORABLE MINISTER
Ministry of Agrarian Reform
Diliman, Quezon City

FROM : THE REGIONAL DIRECTOR
MAR, Region V
Legaspi City

SUBJECT: MONTHLY PROGRESS REPORT FOR THE PERIOD ENDING Oct. 15, 1981.

I have the honor to submit herewith the Monthly Progress Report of the Bicol Integrated Development Area II, Bula-Minalabac Land Consolidation Project, USAID Loan No. 492-T-046, Camarines Sur for the period ending Oct. 15, 1981.

SALVADOR PEJO, CESO II
Regional Director

Enclosure:

As stated

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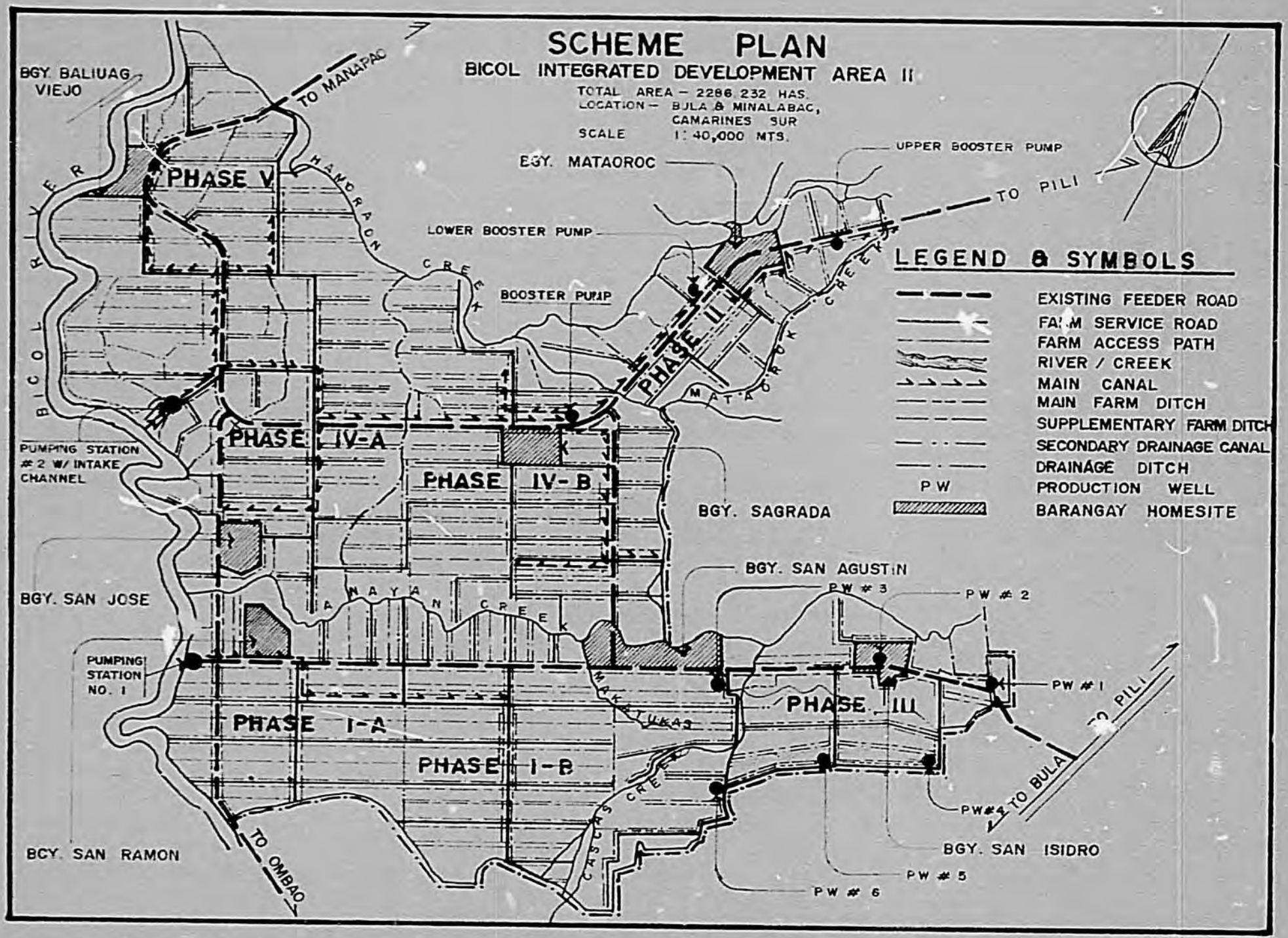
SCHEME PLAN
BICOL INTEGRATED DEVELOPMENT AREA II
TOTAL AREA – 2286.232 HAS.
LOCATION – BULA & MINALABAC, CAMARINES SUR
SCALE 1:40,000 MTS.
BGY. BALIUAG VIEJO
TO MANAPAC
PHASE V
HANORAON CREEK
BICOL RIVER
BGY. MATAOROC
UPPER BOOSTER PUMP
TO PILI
LOWER BOOSTER PUMP
BOOSTER PUMP
PHASE II
MATA CREEK
PHASE IV-A
PHASE IV-B
PUMPING STATION #2 W/ INTAKE CHANNEL
BGY. SAGRADA
BGY. SAN JOSE
ANAYAN CREEK
BGY. SAN AGUSTIN
PW #3
PW #2
PUMPING STATION NO. 1
PHASE I-A
PHASE I-B
MAKATUKAS
PHASE III
PW #1
TO BULA
TO PILI
CASCAS CREEK
PW #4
BGY. SAN ISIDRO
BGY. SAN RAMON
TO OMBAO
PW #5
PW #6
LEGEND & SYMBOLS
EXISTING FEEDER ROAD
FARM SERVICE ROAD
FARM ACCESS PATH
RIVER / CREEK
MAIN CANAL
MAIN FARM DITCH
SUPPLEMENTARY FARM DITCH
SECONDARY DRAINAGE CANAL
DRAINAGE DITCH
PW PRODUCTION WELL
BARANGAY HOMESITE

BULA-MINALABAC LAND CONSOLIDATION (PROJECT BICOL IDA II)
LATAORDO, MINALABAC, CAMARINES SUR

SUB-ALLOTMENT ADVICES RECEIVED

AMOUNT OF SUB-ALLOTMENT RECEIVED	SAA NO.	CDC NO.	COLA	FUND CODE	C.O. OBLIGATION NO.	OBLIGATION NUMBER
₱ 408,835.10	17			101	409-101- 7-2056-80	
13,183.50	15			101	409-101- 6-1889-80	
23,947.00	11			101	409-101- 6-1715-80	
5,150.00	10			101	409-101- 5-1582-80	
279,502.62	7			101	409-101- 5-1262-80	
26,192.35	8			101	409-101- 5-1261-80	
5,100.00	27			101	409-101- 9-2839-80	
556,159.21	20			101	409-101-10-3236-80	
15,550.00	28			101	409-101-10-5369-80	
82,222.43	34			101	409-101-12-4206-80	
96,915.00	2			101	409-101- 1- 74-81	
84,665.00	6			101	409-101- 2- 432-81	
89,670.00	8			101	409-101- 3- 689-81	
43,438.24	9			101	409-101- 4- 964-81	
60,000.00	10			101	409-101- 4-1174-81	
204,268.40	14			101	409-101- 5-1341-81	
5,000.00	16			101	409-101- 5-1435-81	
28,000.00	17			101	409-101- 5-1719-81	
920,000.00	20			101	409-101- 6-1960-81	
₱ 3,115,923.05 = T O T A L						

Prepared by:

TERESITA B. CUADRO
C.E. Aide

Checked by:

FRANCISCO E. MARGATE
Project Analyst

Noted by:

GREGORIO P. BELUANG
Project Manager

SUBMITTED BY:

SALVADOR PEJO, CESO II
Project Director

/sea-

STATEMENT OF WORK ACCOM

NATIONAL IRRIGATION

AS OF OCTOB

NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITY	ESTIMATED COST (P)	% OF ITEM
1.0	CANAL /CHANNEL EXCAVATION				
	a.) MANUAL	CU. M	19,351.00	217,311.73	10.71
	b.) MECHANIZED	CU. M	10,996.00	99,293.88	4.89
2.0	EXCAVATION OF STRUCTURES	CU. M.	1,153.00	15,484.79	0.76
3.0	ROADWAY EXCAVATION	CU. M.	3,749.00	32,616.30	1.61
4.0	STRUCTURE BACKFILL	CU. M	792.00	21,209.76	1.05
5.0	COMMON BORROW				
	a.) SIDE BORROW	CU. M	15,499.00	352,292.27	17.37
	b.) INSIDE BORROW	CU. M.	18,737.00	667,599.31	32.91
6.0	SELECTED BORROW	CU. M.	2,840.00	218,736.80	10.78
7.0	REINFORCED CONCRETE	CU. M.	145.429	160,456.18	7.91
8.0	PLAIN CONCRETE	CU. M.	20.33	968.96	0.97
9.0	RIP-RAP				
	a.) GROUTED RIPRAP	CU. M.	166.56	57,966.21	2.86
	b.) DRY RIPRAP	CU. M	44.125	4,527.67	0.22
10.0	R.C. PIPES				
	a.) 18" Ø x 1.00M.	PCS.	31.00	8,111.46	0.40
	b.) 24" Ø x 1.00M.	PCS.	6.00	2,190.12	0.11
	c.) 30" Ø x 1.00 M	PCS	6.00	2,818.80	0.14
	d.) 36" Ø x 1.00M	PCS	20.00	11,781.20	0.58
	e.) 48" Ø x 1.00M	PCS	12.00	9,367.80	0.46
11.0	GRAVEL BASE & BLANKET	CU.M	39.854	4,201.01	0.21
12.0	CONCRETE LINING	CU. M.	127.00	123,057.92	6.07
				2,009,992.17	

PREPARED BY: GODOFREDO V. PAN JR.

CHECKED BY:

FRAI

ACCOMPLISHMENT (PHASE I-A, 200 Has.)

ION ADMINISTRATION (NIA)

OCTOBER 15 1981

% OF ITEM	ACCOMPLISHMENT ON ITEM				ACCOMPLISHMENT ON CONTRACT	TOTAL EXPENDITURES
	QUANTITY		PERCENTAGE (%)			
	THIS PERIOD	TO DATE	THIS PERIOD	TO DATE		
10		17,600.00		91.98	9.85	199,883.33
		10,996.00		100	4.89	99,293.88
		1,140.00		98.87	0.75	15,309.81
		3,749.00		100	1.61	32,616.30
		792.00		100	1.05	21,209.76
		15,100.00		97.42	16.92	342,091.43
		18,737.00		100.	32.91	667,599.31
		2,840.00		100	10.78	218,736.80
		142.429		97.93	7.75	156,134.74
		16.00		78.70	0.76	762.57
		155.20		93.18	2.66	53,012.91
		44.125		100	0.22	4,527.67
		31.00		100	0.40	8,111.46
		6.00		100	0.11	2,190.12
1.4		6.00		100	0.14	2,818.80
0.58		20.00		100	0.58	11,781.20
0.46		12.00		100	0.46	9,367.80
0.21		39.854		100	0.21	4,201.01
6.07		35.00		27.56	1.67	33,914.76
					93.71	1,883,563.66

FRANCISCO E. MARGATE

JAIME B. ABONITA

NARRATIVE REPORT

I - PROJECT ACTIVITIES:

The overall accomplishment of the Bula-Minalabac Land Consolidation Project (BICOL IDA II-A) for the period ending October 15, 1981 is 33.362%. The percentage of accomplishment as revised programmed to date is 53.57%. A significant work slippage of about 20.208%, which equivalent to time slippage of about 71 weeks.

The delay was attributed to inclement weather, poor performance of contractors and late approval by the Presidential Review Committee (PRC) of several contracts endorsed in Malacañang.

A. PROGRAMMING AND MONITORING UNIT:

1. Preparation of monthly schedule of works and expenditures for every project component and monthly accomplishment.
2. Review and evaluation of accomplishment for every section or unit and contractors.
3. Preparation of monthly progress reports.

B. PHYSICAL AND INFRASTRUCTURE DEVELOPMENT DIVISION:

a. Design Section

1. Continuation of the computation of quantity and estimates for roads, irrigation and drainage, canal and structures for Phases II to V.
2. Continue computation for quantity take-off of all engineering works.

3. Re-checking of lenghts of roads, irrigation of Phases II, III, IV and V.

b. Construction Section

1. Continuation of the supervision of civil works undertaken by several contractors.

c. Survey Section

1. Profile and cross-section of on-going construction for service roads and farm access paths.

2. Layout of homesite development for barangay San Isidro, Phase III.

3. Checking of structure elevation roads, irrigation canal and drainage canal.

d. Material and Quality Control Section

1. Conducts soil exploration works for suitable materials for borrow.

2. Conducts field density tests, Phases I-A and I-B,

3. Conducts concrete mixture strenght test for different interval of days.

4. Conducts slump test.

5. Conducts rebar tensile strenght test.

e. Force Account

Have maximized their program of activities, to meet the scheduled full operation of the entire Phase I of which will serve 567 irrigable service area.

f. Right of way and damages Section

1. Negotiation of right-of-way for the proposed service roads, canals, laterals, drainage ditch and farm access paths.

C. INSTITUTIONAL AND AGRICULTURAL DEVELOPMENT DIVISION:

As of the period ending October 15, 1981, this component of the project had accomplished 56.76% as what was scheduled.

A. Applied Agricultural Research

Equipped with the necessary inputs and other logistics needed in growing rice as Masagana 99 recommendations, seed sowing enough for two (2) trials particularly early and medium maturing seeds (IR and BPI varieties.)

With the areas planted, the activities were devoted for the crop protection maintenance and supervision.

B. Organizational Development and Training

The activity undertaken during the period were as follows:

1. Conducted information education on other crafts, home visits, RIC meetings, RIC project demonstration and other backyard projects.
2. Formation/development of Farmers Organization (Compact Farm).
3. Field interview for the Farm Management Survey.
4. Orientation/Seminar/Training for farmer beneficiaries was conducted which provided basic information on project plans, objective and goals.
5. Youth Leadership Training, Mothers' Class Training (1st and 2nd batches) and Farmers' Training were conducted at Barangay San Jose, Phase IV-A.

6. Youth Leadership Training (1st batch) was conducted at barangay San Isidro, Phase III and barangay Sagrada Phase IV-B.

7. Conducted Operation Timbang for the children of farmer beneficiaries.

8. Supplementary feeding at San Agustin and San Ramon.

9. Undertakes a continuing malnutrition prevention on project areas.

C. TENURIAL DEVELOPMENT

Activities undertaken for the period were as follows:

1. Tenurial assessment on Farmers' Profile.

2. Information drive

3. Mediation conference

4. Ocular inspection of right-of-way

5. Collection campaign for farmlot, homelot and farm machineries

6. Lot assignment on farmlot and homelot of Phase I-B, Lirag estate, Bula, Camarines Sur, and Phase II, Silverio estate, Mataoroc, Minalabac, Camarines Sur,

FORCE ACCOUNT BY (ADMINISTRATION)

Project : PILOT PHASE, 100 Has.

Location : San Ramon, Bula, Camarines Sur

I. GENERAL

1. ACTIVITIES:

The PMO has now maximized the activities coupled with the Program of Work so as to meet the scheduled full operation of the entire phase (I) covering 567 has. irrigable service area.

2. PROGRESS:

As of the period covered, the overall accomplishment is 88.107%.

3. PERSONNEL:

The following composes the personnel strenght:

1 - Construction Engineer
2 - Mechanics
3 - Civil Engineering Aide
1 - Supervising Mechanic
4 - Heavy Equipment Operators
3 - Dump Truck Drivers
3 - Mechanic Helpers

4. EQUIPMENT:

The following are the equipment:

3 - Dump Trucks
1 - Grader
1 - Road Roller
1 - Payloader
1 - Dozer

Co-Implementor: NATIONAL IRRIGATION ADMINISTRATION (NIA)

Project : PHASE I-A 200 Has.

Location : San Ramon, Bula, Camarines Sur

I. GENERAL

1.0 ACTIVITIES:

The activities undertaken for the period covered were as follows:

1.1 Excavation for canal, canal structures and roadway.

1.2 Backfill for canal structures.

1.3 Hauling and spreading of common borrow materials.

1.4 Gravel base and blanket, reinforced and plain concrete riprap and reinforced concrete pipes for canal structures.

2.0 PROGRESS:

With the issuance and additional work and/or change order, its accomplishment to date is 93.71%.

The description of activities follows.

3.0 PERSONNEL:

3.1 Office Personnel

DESIGNATION	NUMBER
Project Engineer	1
Asst. Project Engineer	1
Engineer Trainee	2
Accounting Clerk	1
Clerical Aide	3
C.E. Aide	2
Laborer	5
Watchman	1
Service Jeep Driver	1

Contractor : AGNO CONSTRUCTION

Project : PHASE I-B (310 Has.)

Location : San Agustin, Bula, Camarines Sur

Contract Amount: ₱3,372,543.37

I - GENERAL

ACTIVITIES:

The subject contractor had no activities undertaken.

PROGRESS:

The psoject should had been completed last May 27, 1981 having a total accomplishment of 79.94%.

The subject contractor had requested again for an extension of the project which will be due on April. In just right to meet the favorable working condition on the area comes summer of 1982.

LIST OF PERSONNEL:

1.0 SUPERVISORS:

1 . . . . . Project Manager
1 . . . . . Project Engineer

2.0 EARTHWORKS/EQUIPMENT OPERATORS

2 . . . . . Dozer Operators
2 . . . . . Loader Operators
2 . . . . . Road Roller Operators
1 . . . . . Grader Operator
8 . . . . . Dump Truck Drivers
1 . . . . . Spotter/Checker

3.0 LIST OF EQUIPMENT

KIND	NUMBER OF UNITS
Dozer	4
Loader	2
Road Roller	2
Grader	1
Dump Trucks	8

Note: Two (2) dozers were idle throughout the month due to mechanical defects.

4.0 MATERIAL TESTING AND CONTROL

There was no test conducted in this phase for this period. No embankment was ready for testing.

Contractor : MAROSA ENTERPRISES

Project : (PHASE IV-A) CONSTRUCTION OF IRRIGATION AND DRAINAGE CANALS, FARM SERVICE ROADS, FARM ACCESS PATHS AND CANAL STRUCTURES

Location : San Jose, Minalabac, Camarines Sur

Contract Amount ₱ 8,672,159.25

1.0 ACTIVITIES OF THE MONTH:

a) Hauling, upgrading and initial compaction of common borrow for Main Canal service road from sta. 1 + 200 to sta. 1 + 600 and FSR-1

b) Backfilling on Lateral "A" Headgate structure.

c) Forms for road crossing at sta. 0 + 868 at Main Canal, excavation, placing of gravel bedding, fabrication of rebars.

d) Excavation, placing of gravel bedding, forms and rebars for RA-10 and RA-11 turn outs.

e) Stockpiling of common borrow.

2.0 PROGRESS:

For this month, payable accomplishment is relatively small. Accomplishment on road network is not payable because earthfills were not well compacted. Only the accomplishment on the structures is considered for payment.

Payable accomplishment to date is 10%. Including work progress, total accomplishment is 24.226%.

3.0 LIST OF PERSONNEL:

Designation	Number
Project Engineer	1
Foreman	1
Warehouseman	1
Carpenters	5
Operators	5
Mechanics	2
Drivers	4
Utilityman	2
Laborers	8
Watchman	1

4.0 LIST OF EQUIPMENT:

Kind	Number
Dump trucks	4
Dozers	2
Loader	1
Backhoe	1
Concrete mixer, one bagger	1

5.0 PROBLEMS, COMMENTS AND RECOMMENDATIONS:

5.1 Because the contractor did not have a road roller, compaction was only initial and was done with the use of dozers. It is recommended that one roller or more be used to speed up embankment operation.

5.2 Although the project was big, we observed that the contractor fielded [illegible]y a few workers and equipment. We recommend that [illegible]ntractor maximize use of manpower and equipme[illegible] Even during rainy season, a lot of work would be undertaken - excavation of drainage canals, for instance.

Contractor : HG & B CONSTRUCTION

Project : (PHASE V) CONSTRUCTION OF IRRIGATION AND DRAINAGE CANALS, FARM SERVICE ROADS, FARM ACCESS PATHS AND CANAL STRUCTURES.

Location : Baliwag Viejo, Minalabac. Camarines Sur

Contract Amount: ₱ 3,597,379.70

1.0 ACTIVITIES OF THE MONTH:

1.1 Fabrication of forms for parshall flume at sta. 0 + 300 of supply canal.

1.2 Assembly of rebars and concreting of R.C. pipes.

1.3 Hauling and spreading of common borrow for RAA1-SPD2.

1.4 Stripping on supply canal from sta. 0 + 100 to 0 + 300.

2.0 PROGRESS:

Progress of work is very low because the work of the contractor was limited to minor activities and operation was not continuous.

Accomplishment for payment is only 3.226%. Including work on progress, total accomplishment is 5.70%.

3.0 LIST OF PERSONNEL:

Designation	Number
Project Manager	1
Foreman	1
Administrative Officer	1
Operators	3
Drivers	4
Carpenters	3
Laborers	3

4.0 LIST OF EQUIPMENT:

Kind	Number
Dozer	1
Loader	1
Dump Trucks	2
Pick-ups	2

5.0 MATERIAL AND TESTING CONTROL:

Material testing and control report are discussed separately at the last page of this report.

6.0 PROBLEMS, COMMENTS AND RECOMMENDATIONS:

The contractor is encountering right of way problems. Coordination with PMO-ROW negotiator is needed to settle this problem. PMO should make the necessary arrangements with the owners and/or cultivators with the affected areas.

Source of common borrow materials is difficult Coordination with contractor of Phase IV-A will be of great help. If FSR could be constructed, this could serve as an access from the borrow area to the project site. Some borrow sources are also available at Phase IV-A area.

Contractor : LGH CONSTRUCTION

Project : CONSTRUCTION OF MAIN PUMPING STATION NO. 2 WITH INTAKE CHANNEL

Location : San Jose, Minalabac, Camarines Sur

Contract Amount: ₱ 2,308,674.70

1.0 ACTIVITIES OF THE MONTH:

1.1 FOR INTAKE CHANNEL

a) Continue laying of boulders and pouring of grout for grouted riprap at the mouth of the channel and around the pump house.

b) Resume concreting of concrete lining side slope protection.

c) Continue trimming of the side slope near the river.

d) Hauling of excavated materials from the vicinity of the pump house.

e) Filling and compaction on the upper portions of the side slope.

f) Started removal of the earth cofferdam.

g) Continue delivery of boulders and aggregates.

h) Dewatering.

1.2 FOR PUMPING STATION

a) Installation of forms and rebars, and concreting of discharge pipe supports footings and beams.

b) Continue installation of discharge pipes.

c) Fabrication of discharge pipe bonds.

d) Fabrication of steel gratings.

e) Fabrication of interlink wire frames.

f) Installation of anchor/bolts for discharge pipe straps.

g) Installation of base plates for cat walks.

h) Laying of 6" hollow blocks for the pump house walls.

i) Plastering of columns and beams.

j) Concreting of the entrance canopy.

2.0 PROGRESS:

During this period, a lot was accomplished in concreting and riprapping the silo slopes. For concreting, only portions where the two water pumps were located were not finished, for riprapping, only the lower portions at the channel mouth were not completed.

On the pump house, concreting work was completed while masonry work is about 50% accomplished. Accomplishment on steel work fabrication is about 70% while installation is about 33%.

To date, payable accomplishment is already 72%. Including work on progress, total accomplishment is 75.92%. For concrete lining, which is an additional work or item, accomplishment is 99.5%.

3.0 LIST OF PERSONNEL:

Designation	Number
Project Manager	1
Project Engineer	1
Foreman	2
Carpenters	6
Steelman	2
Masons	2
Welder	2
Operator	1
Pump Tender	1
Utilityman	1
Warehouseman	1
Laborers	34
Helpers	2

Note: Above is the number of personnel fielded by the Contractor this period.

4.0 LIST OF EQUIPMENT:

Kind	Number
Crane	1
Water pumps	2
Concrete Mixer, one bagger	3
Plate Compactor	1
Water tank	1
Service Jeep	1
Welding Machine	2
Oxy-acetylene set	1
Generator set and lighting	1

5.0 MATERIAL TESTING AND CONTROL:

Material testing and control report are discussed separately at the last page of this report.

6.0 PROBLEMS, COMMENTS AND RECOMMENDATIONS:

The Contractor revealed plans to undertake riprapping operation at the mouth of the intake channel by using the excavated earth as cofferdam. But a major problem is foreseen for this activity; silting on the channel and on the river during the removal of the cofferdam. Fortunately, silting is minimal if the water level is low, therefore, it is recommended that the Contractor undertake the work immediately and take the advantage of the present condition.

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BULA-MINALABAC LAND CONSOLIDATION (BICOL IDA II-A) PROJECT

FOR THE PERIOD ENDING OCTOBER 15, 1981

FINANCIAL STATUS OF PROJECT ACTIVITIES

PHYSICAL & NON PHYSICAL ACTIVITIES

PARTICULARS	ESTIMATED COST (P)	WT. %	EXPENDITURES (P)		% OF EXPENDITURES		REMARKS
			THIS MONTH	TO DATE	THIS MONTH	TO DATE	
I - PMO ADMINISTRATION & SUPERVISION	6,954,031.00	10.08	83,358.78	4,354,012.34	1.19	62.61	
II - INSTITUTIONAL & AGRICULTURAL DEVELOPMENT	256,840.00	0.37	—	24,508.35	—	9.54	
III - PHYSICAL INFRASTRUCTURE DEVELOPMENT	61,806,111.00	89.55	6,075,285.12	19,993,122.90	8.80	28.88	
TOTAL	69,016,982.00	100	6,158,643.90	24,311,643.59	8.92	35.22	

PREPARED BY:
GODOFREDO V. PAN JR.
C. E. AIDE

CHECKED BY:
FRANCISCO E. MARGATE
PROJECT ANALYST

NOTED BY:
GREGORIO P. BELUANG
PROJECT MANAGER

SUBMITTED BY:
SALVADOR PEJO, CESO II
PROJECT DIRECTOR

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BULA-MINALABAC LAND CONSOLIDATION (BICOL IDA II-A) PROJECT

FOR THE PERIOD ENDING October 15, 1981

FINANCIAL STATUS OF PROJECT ACTIVITIES

PMO ADMINISTRATION & SUPERVISION

PARTICULARS	ESTIMATED COST (P)	WT. %	EXPENDITURES (P)		% OF EXPENDITURES		REMARKS
			THIS PERIOD	TO DATE	THIS MONTH	TO DATE	
A. PERSONAL SERVICES	3,536,149.00	50.85	46,760.66	1,790,109.18	1.32	50.62	
B. MOE	2,351,939.00	33.82	31,155.87	2,153,435.35	1.32	91.56	
C. OFFICE EQUIPMENT	79,000.00	1.14	—	110,220.40	—	139.50	
D. ALL OTHERS PMO	986,943.00	14.19	5,442.25	300,247.41	0.55	30.42	
TOTAL	6,954,031.00	100	83,358.78	4,354,012.34	1.19	62.61	

PREPARED BY

GODOFREDO V. PAN JR.
CE AIDE

CHECKED BY

FRANCISCO E. MARGATE
PROJECT ANALYST

NOTED BY

GREGORIO P. BELUANG
PROJECT MANAGER

SUBMITTED BY

SALVADOR PEJO, CESO II
PROJECT DIRECTOR

BULA-MINALABAC LAND CONSOLIDATION (BICOL IDA II-A) PROJECT

FOR THE PERIOD ENDING OCTOBER 15, 1981

FINANCIAL STATUS OF PROJECT ACTIVITIES

INSTITUTIONAL & AGRICULTURAL DEVELOPMENT

PARTICULARS	ESTIMATED COST (P)	WT %	EXPENDITURES (P)		% OF EXPENDITURES		REMARKS
			THIS MONTH	TO DATE	THIS MONTH	TO DATE	
A. APPLIED AGRICULTURAL RESEARCH	71,000.00	27.64	–	2,552.00	–	3.59	
B. TENURIAL DEVELOPMENT	46,920.00	18.27	–	1,470.00	—	3.13	
C. ORGANIZATIONAL DEVELOPMENT & TRAINING	138,920.00	54.09	–	20,486.35	—	14.75	
TOTAL	256,840.00	100		24,508.35		9.54	

PREPARED BY:

GODOFREDO V. PAN JR.
CE AIDE

CHECKED BY:

FRANCISCO E. MARGATE
PROJECT ANALYST

NOTED BY:

GREGORIO P. BELUANG
PROJECT MANAGER

SUBMITTED BY:

SALVADOR PEJO, CESO II
PROJECT DIRECTOR

BULA-MINALABAC LAND CONSOLIDATION (BICOL IDA II-A) PROJECT

FOR THE PERIOD ENDING OCTOBER 15, 1981

FINANCIAL STATUS OF PROJECT ACTIVITIES

PHYSICAL INFRASTRUCTURE DEVELOPMENT

PARTICULARS	ESTIMATED COST (P)	WT. %	EXPENDITURES (P)		% OF EXPENDITURES		REMARKS
			THIS MONTH	TO DATE	THIS MONTH	TO DATE	
A. A & DETAILED ENG'G DESIGN	3,328,633.00	5.38	278,100.36	3,398,764.85	8.35	102.10	Extra works & revision of the design & plan prep. were issued
B. A & E CONST. SUP.	1,728,258.00	2.80	260,216.40	916,923.76	15.05	53.05	
C. IRRIGATION, ROADS, DRAINAGE & CANAL STRUCTURE	41,216,930.00	66.69	5,536,968.36	12,672,186.53	13.43	30.75	
D. IMPORTED PUMPS	7,296,530.00	11.80		1,422,050.0		19.49	
E. MULTI PURPOSE & SCHOOL BLGDS.	1,282,510.00	2.08	–	964,514.22	–	75.20	
F. HOMESITE DEV'T.	4,376,600.00	7.08	–	519,618.50	–	11.87	
G. FARMLOT SUBDIVISION SURVEY	685,650.00	1.11	–	7,720.54	–	1.12	
H. R.O.W & DAMAGES	410,000.00	0.66	–	1,097.00	–	0.267	
I. TEST-RUN	1,481,000.00	2.40	–	30,247.50		2.04	
TOTAL	61,806,111.00	100	6,075,285.12	19,933,122.90	8.80	28.88	

PREPARED BY: GODOFREDO V. PAN JR., C.E. AIDE

CHECKED BY: FRANCISCO E. MARGATE, PROJECT ANALYST

NOTED BY: GREGORIO P. BELUANG, PROJECT MANAGER

BULA-MINALABAC, LAND CONSOLIDATION (BICOL IDA II-A) PROJECT

MONTH OF	SEPTEMBER 1-30	1981

TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

LEGEND:

- YELLOW — FAIR
- WHITE — CLOUDY
- GRAY — RAINSHOWER
- [redacted] — HEAVY RAIN
- BLACK — TORMY

12:N.
6:AM. 6:PM.
12:MN.

WEATHER CHART

SHEET ___ OF ___

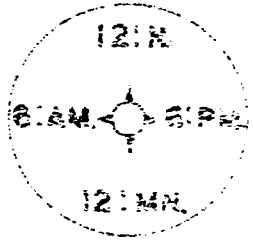
BULS-MINALABAC, LAND CONSOLIDATION (BICOL IDA II-A) PROJECT

MONTH	OF	OCTOBER	1 - 15	1991

THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY
	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

LEGEND:

- YELLOW — FAIR
- WHITE — CLOUDY
- GRAY — RAINSHOWER
- BROWN — HEAVY RAIN
- BLACK — STORMY



WEATHER CHART

SHEET ____ OF ____

MATERIALS QUALITY CONTROL AND TESTING

1.0 ACTIVITIES FOR THE MONTH:

Activities for the month were: laying of concrete hollow blocks on walls for the main pumping station; construction of small structures for Phase IV-A; and making of reinforced concrete pipes for Phase V. Sampling was made on all concrete poured on structures and on the concrete pipes. Inspection was also made on the hollow blocks being used on the main pumping station.

2.0 TEST RESULTS:

Hollow blocks being used on the pumping station were found to be of acceptable quality. The mortar cells were found to be slightly larger than the ordinary requiring more mortar to fill up the cells.

The comprehensive strenght of concrete pipes with a specified cement factor of 9.5 bags/cu.m. (380 kg/cu.m.) tested at seven (7) days was way below the required minimum of 75% of 3000 psi at 28 days. The computed mix design for this cement factor was one part cement to 2 parts sand to 2.3 parts 3/4" gravel. Through experience, it is estimated that the strength of this mix should register at around 3,000 psi at seven days. The same trend was found to exist in all concreting operations whether it be for pipe or for structures.

The last piece from every set of sample taken from the concreting of main pumping station were tested and were found mostly to be satisfactory. Each last sample of every set serves as a referee test of the previous samples. The last sample also serves to illustrate that the concrete in this project possess a delayed reaction on the cement; or has a retarded growth curve thereby exhibiting low strength at an earlier age and picking up strength at 28 days or over. This could be attributed to the presence of deletorious substances or chemicals that reacts with the cement and tends to delay it gain of strength.

3.0 LABORATORY PERSONNEL:

Designation	Member
Materials Engineer, TCGI	1
Materials Engineer, PMO	1
Laboratory Technician, PMO	1
Laboratory Aides, PMO	2

4.0 EQUIPMENT:

Present laboratory equipment capabilities are as follows:

4.1 Grading soils and aggregates

4.2 Field densities

4.3 Compaction; T-99 and T-180

4.4 Atterber limit test

4.5 California bearing ratio

5.0 REMARKS AND RECOMMENDATIONS:

Samples tested this month were capped by the Material Engineer of TCGI with the help of technicians from PMO and [illegible]. This was done caredully to eliminate capping errors as much as possible which tend to split the samples longitudinally and reduce the comprehensive strength. The results were satisfactory. It was also noted that the compression machine being used has an error of 500 lbs. offset from the starting mark of zero.

I t is hereby recommended that all contractors should change their source of sand because the one being used presently has a high fineness modulus and possibly contains deleterious substances or chemicals injurious to the cement and/or tends to retard its gain of strength.

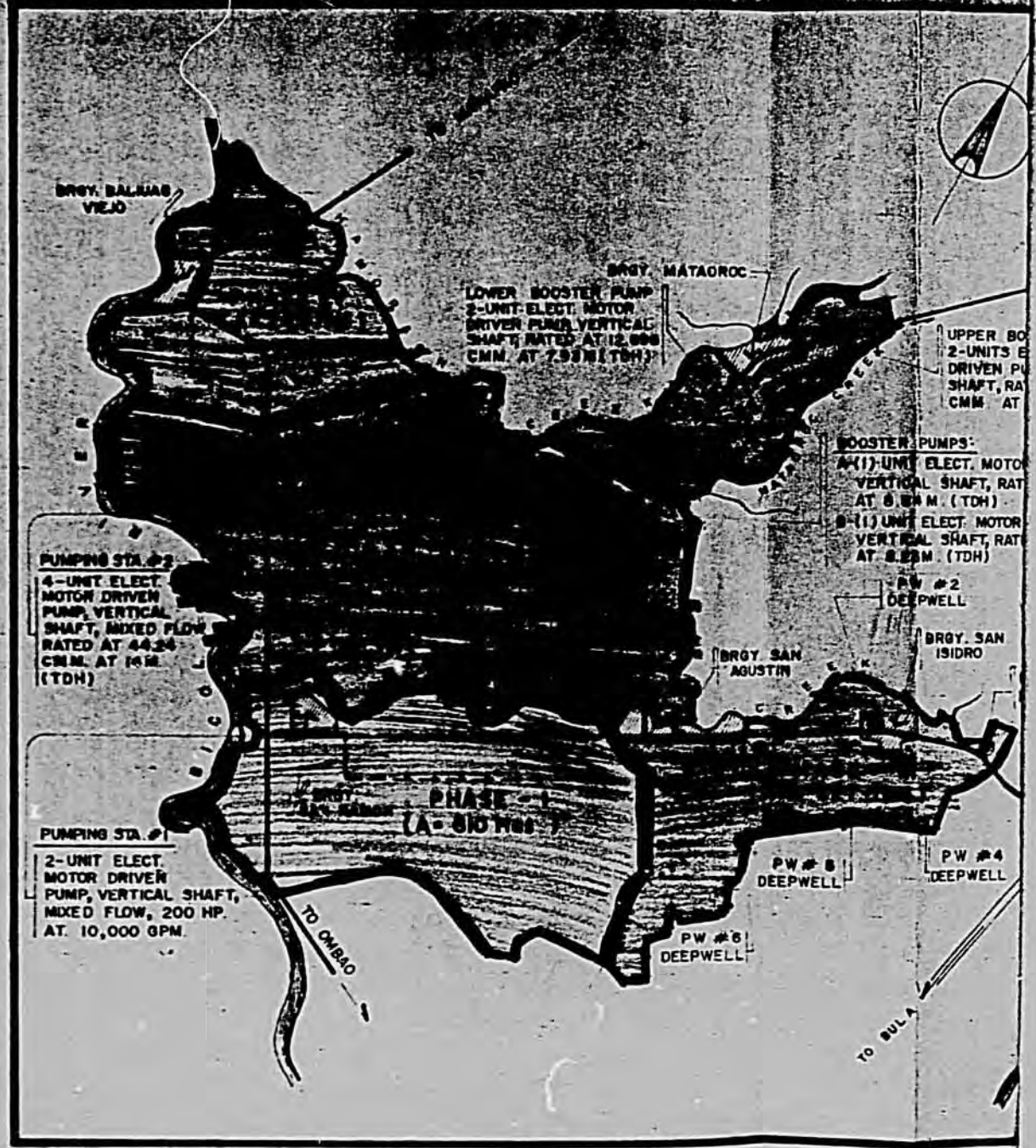
6.0 Summary of test results are attached on the following pages.

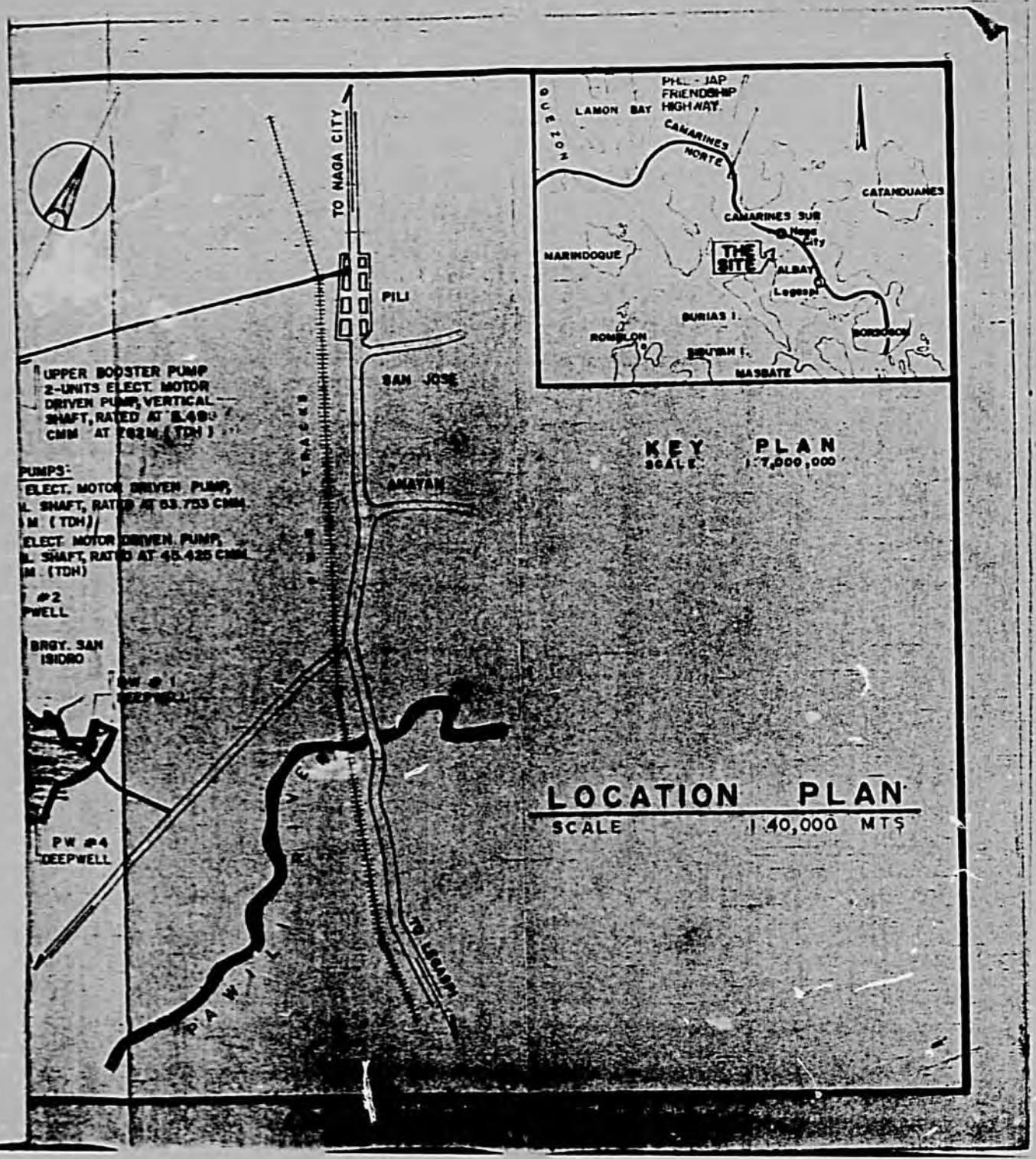
TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE

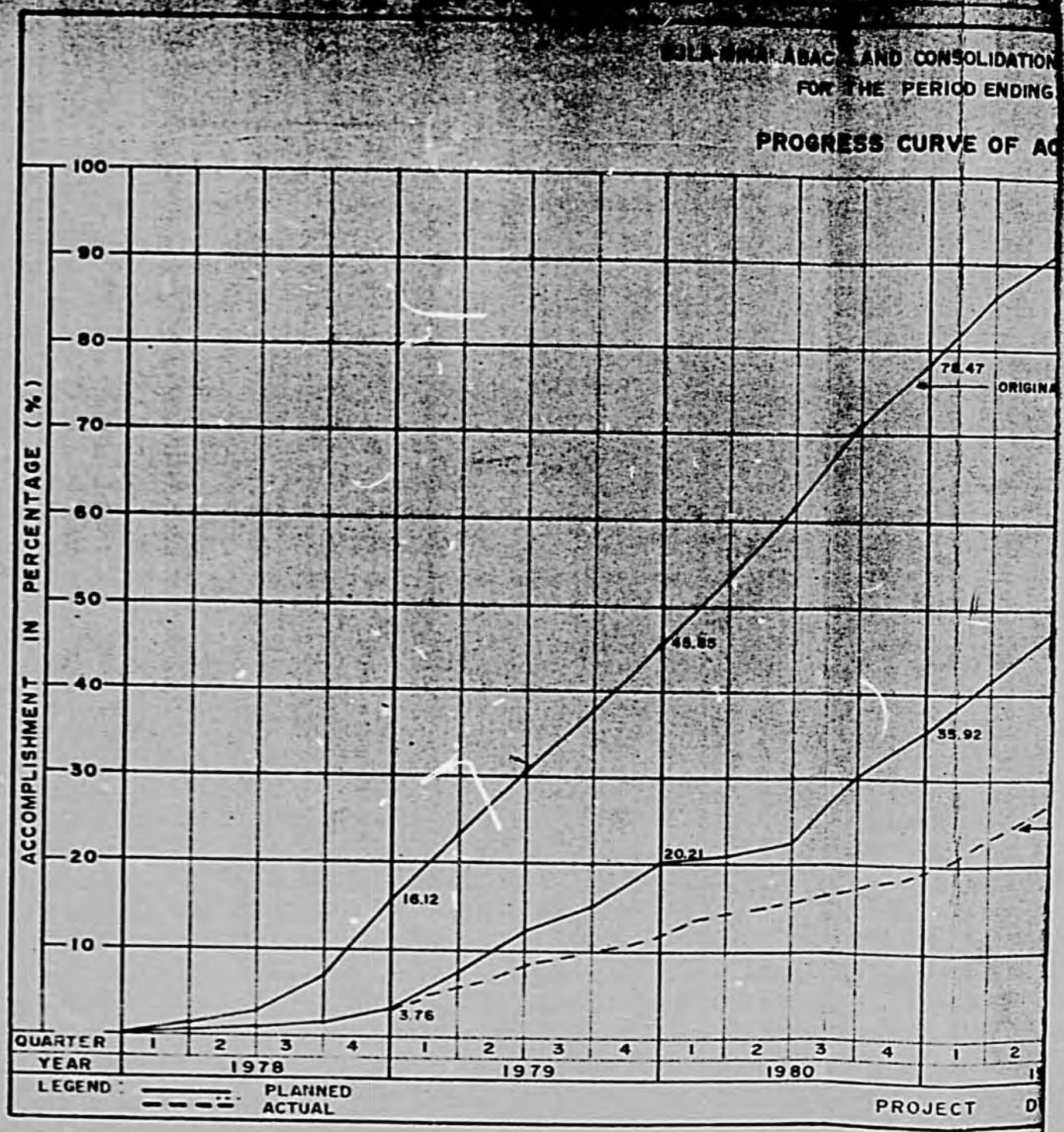
DATE	LOCATION IN STRUCTURE	DATE TESTED	AGE	COMPRESSIVE STRENGTH AT 28 DAYS
8/31/81	C 1	10/1/81	41	3013
"	C 2	"	41	2828
"	C 3	"	41	2778
9/1/81	Roof and beam	"	30	2931
"	"	"	30	2965
8/20/81	Flooring	"	42	3146
"	"	"	42	3096
8/18/81	Beam	"	44	3189
"	"	"	44	3721
7/25/81	"	"	68	3043
7/14/81	PS and apron	"	79	2831
7/1 /81	Column	"	75	3096

Most of the samples tested passed the required compressive strength but some of them marginally failed.

ELEUTERIO C. CANIVEL
Soils/Materials Engr.


BRGY. BALIUAG VIEJO
BRGY. MATAOROC
LOWER BOOSTER PUMP 2-UNIT ELECT. MOTOR DRIVEN PUMP, VERTICAL SHAFT, RATED AT 12,000 CMM. AT 7.93M (TDH)
UPPER BO 2-UNITS E DRIVEN PU SHAFT, RA CMM AT
BOOSTER PUMPS:
A-(1) UNIT ELECT. MOTO VERTICAL SHAFT, RAT AT 8.84 M. (TDH)
B-(1) UNIT ELECT. MOTOR VERTICAL SHAFT, RAT AT 8.23M. (TDH)
PUMPING STA. #2
4-UNIT ELECT. MOTOR DRIVEN PUMP, VERTICAL SHAFT, MIXED FLOW RATED AT 44.24 CMM. AT 14M. (TDH)
PW #2 DEEPWELL
BRGY. SAN ISIDRO
BRGY. SAN AGUSTIN
PHASE - 1
(A= 610 Has.)
PUMPING STA. #1
2-UNIT ELECT. MOTOR DRIVEN PUMP, VERTICAL SHAFT, MIXED FLOW, 200 HP. AT. 10,000 GPM.
TO OMBAO
PW #5 DEEPWELL
PW #4 DEEPWELL
PW #6 DEEPWELL
TO BULA

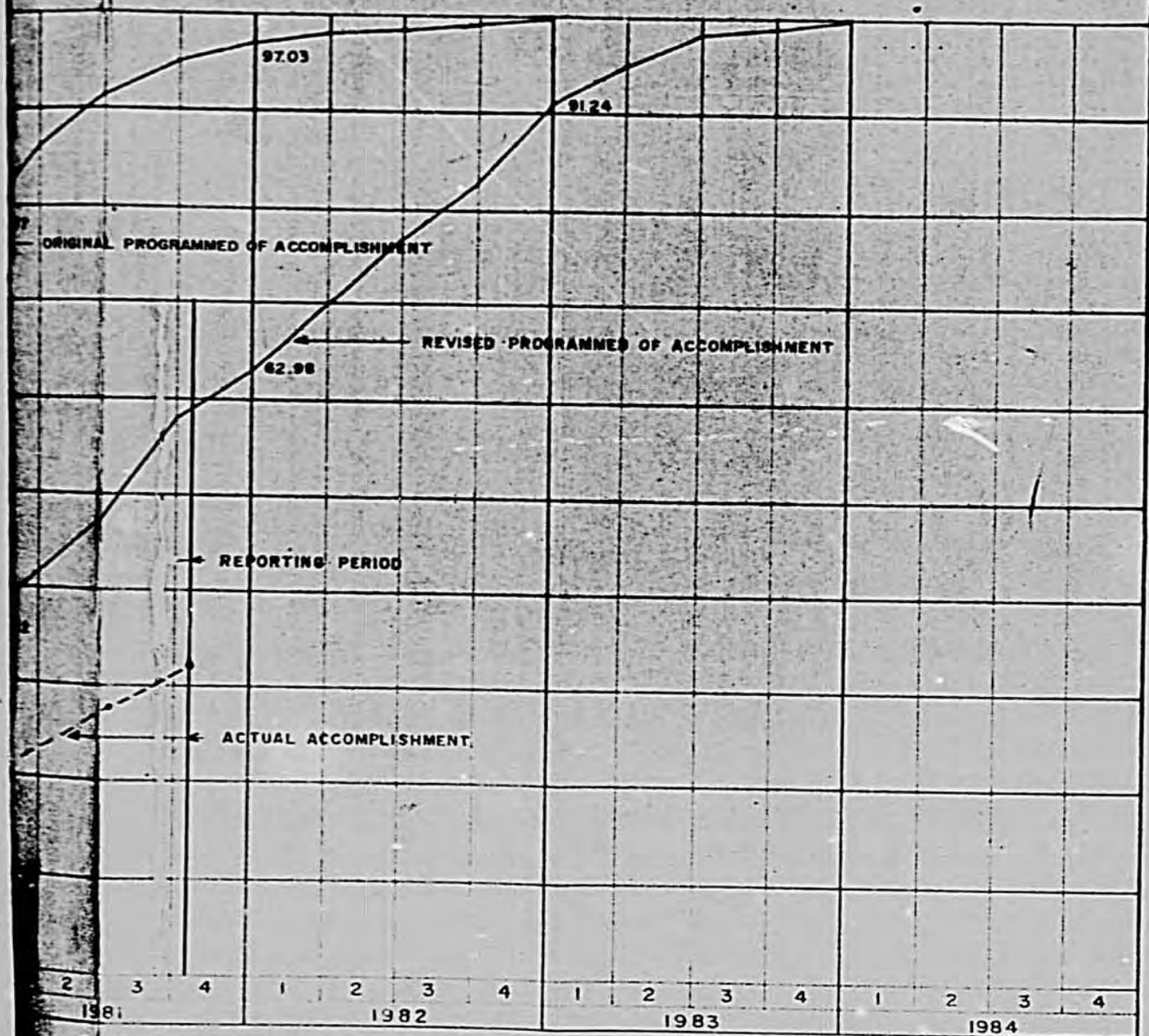

TO NAGA CITY
PILI
SAN JOSE
AMAYAN
UPPER BOOSTER PUMP
2-UNITS ELECT. MOTOR
DRIVEN PUMP, VERTICAL
SHAFT, RATED AT
CMM AT
(TDH)
PUMPS:
ELECT. MOTOR DRIVEN PUMP,
SHAFT, RATED AT 63.753 CMM
M (TDH)
ELECT. MOTOR DRIVEN PUMP,
SHAFT, RATED AT 45.425 CMM
M (TDH)
#2
WELL
BRGY. SAN
ISIDRO
PW #1
DEEPWELL
PW #4
DEEPWELL
PHIL - JAP
FRIENDSHIP
HIGHWAY
LAMON BAY
QUEZON
CAMARINES
NORTE
CATANDUANES
CAMARINES SUR
Naga
City
MARINDOQUE
THE
SITE
ALBAY
Legaspi
BURIAS I.
ROMBLON
BATAN I.
SORSOGON
MASBATE
KEY PLAN
SCALE 1:7,000,000
LOCATION PLAN
SCALE 1:40,000 MTS

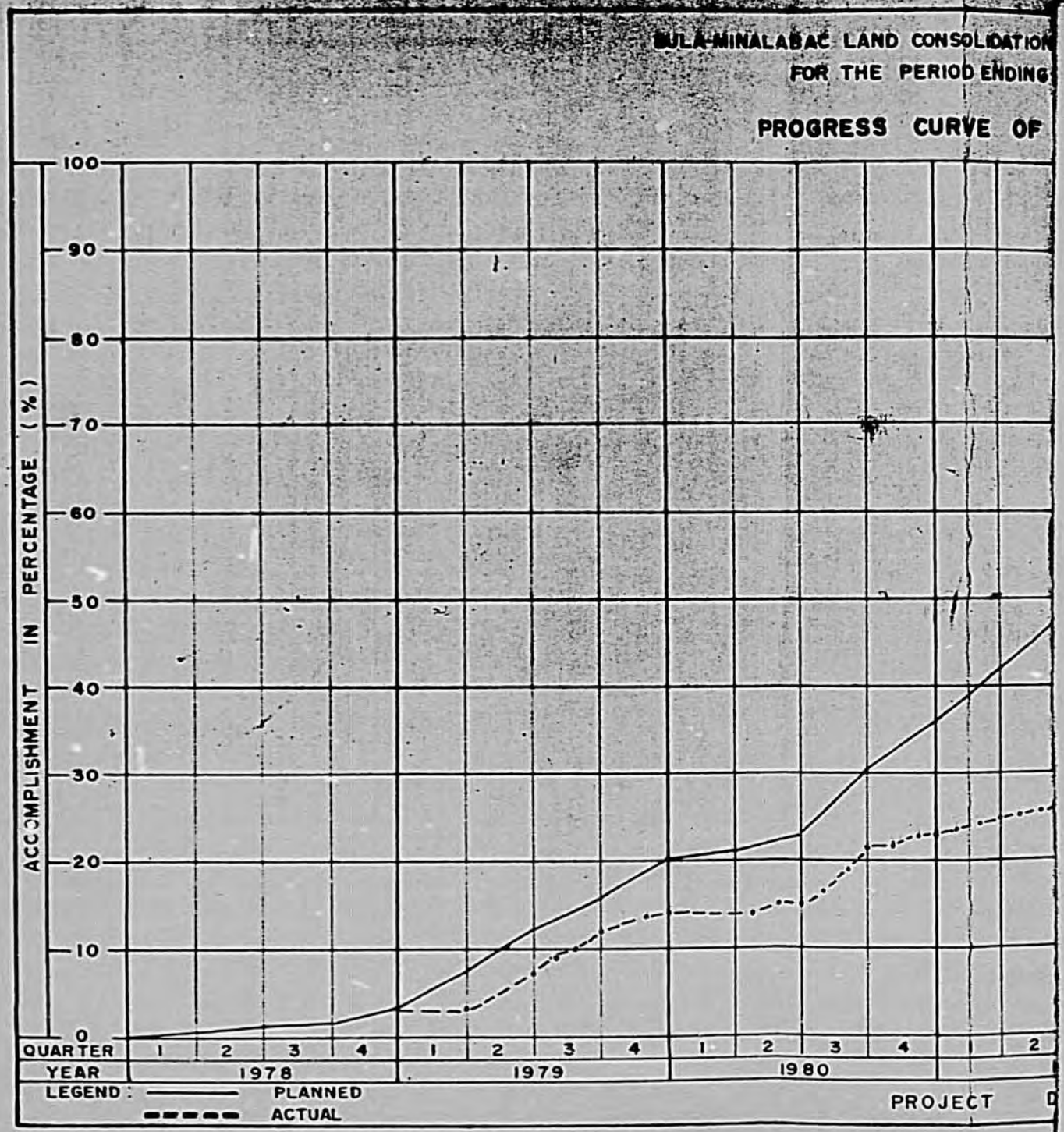


BILA-MINA ABAC LAND CONSOLIDATION
FOR THE PERIOD ENDING
PROGRESS CURVE OF AC
ACCOMPLISHMENT IN PERCENTAGE (%)
100
90
80
70
60
50
40
30
20
10
78.47
ORIGINA
48.85
35.92
20.21
16.12
3.76
QUARTER
1
2
3
4
1
2
3
4
1
2
3
4
1
2
YEAR
1978
1979
1980
LEGEND:
PLANNED
ACTUAL
PROJECT

DATION (BICOL IDA II-A) PROJECT
ENDING Oct. 15, 1981

OF ACCOMPLISHMENT

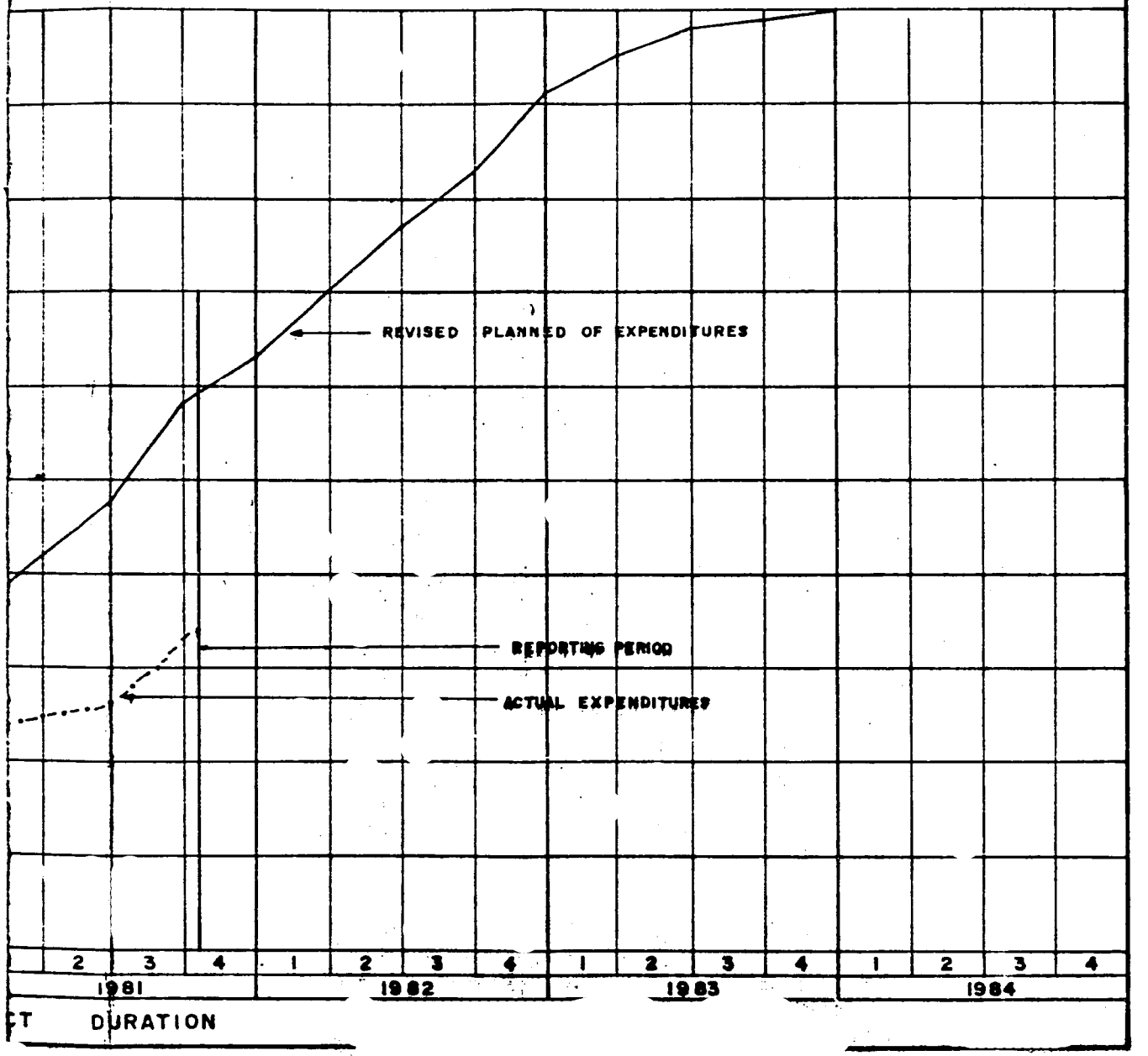



BULA-MINALABAC LAND CONSOLIDATION
FOR THE PERIOD ENDING
PROGRESS CURVE OF
ACCOMPLISHMENT IN PERCENTAGE (%)
100
90
80
70
60
50
40
30
20
10
0
QUARTER 1 2 3 4 1 2 3 4 1 2 3 4 1 2
YEAR 1978 1979 1980
LEGEND: PLANNED
ACTUAL
PROJECT

LIDATION (BICOL IDA II-A) PROJECT

ENDING October 15, 1981

VE OF EXPENDITURES



CT DURATION

BULA-MINALABAC LAND CONSOL
FOR THE PERIOD END

STATUS REPORT ON OR

DIVISION / SECTION	GOVERNMENT FORCES					
	PROFESSIONAL				SKILLED	
	TECHNICAL		NON-TECHNICAL			
	PLANNED	ACTUAL	PLANNED	ACTUAL	PLANNED	ACTUAL
I OFFICE OF THE PROJECT DIRECTOR		2	1	6		
II OFFICE OF THE PROJECT MANAGER	5	2	4	6		
a.) PROGRAMMING & MONITORING SECTION	5	3	2	1		
III PHYSICAL INFRASTRUCTURE DEV'T. DIVISION						
a.) DESIGN & ESTIMATES SECTION	10	6				
b.) CONSTRUCTION SECTION	13	6				6
c.) MATERIALS & TESTING SECTION	4	3				
d.) SURVEY SECTION	17	12				
e.) R.O.W. & DAMAGES SECTION			2	-		
IV ADMINISTRATIVE DIVISION						
a.) PERSONNEL & GEN. SERVICES SECTION			15	29		
b.) ACCOUNTING & FINANCE SECTION			3	6		
c.) PROCUREMENT & PROPERTY SECTION			2	3		
d.) COMMUNICATION SECTION	1	1				
V INSTITUTIONAL / AGRICULTURAL DIVISION						
a.) APPLIED AGRICULTURAL RESEARCH	1	3*				
b.) TENURIAL DEVELOPMENT			2	3		
c.) ORGANIZATIONAL DEV'T & TRAINING	21	23*	4	8*		
TOTAL	75	61	35	62		

PREPARED BY

FRANCISCO E. MARGATE
PROJECT ANALYST

NOTED

* [illegible]

CONSOLIDATION (BICOL IDA-II-A) PROJECT

RIOD ENDING OCT. 16, 19 81

ON ORGANIZATIONAL FORCE

SHEET ____ OF ____

FORCES				NAME OF COMPANY	PRIVATE CONTRACTOR'S/CONSULTANT'S EMPLOYEE			
KILLED		UNSKILLED			PROFESSIONAL		SKILLED	UNSKILLED
NED	ACTUAL	PLANNED	ACTUAL		TECHNICAL	N-TECHNICAL		
				NAT'L IRRIG. ADM.	6	6	27	73
				AGNO CONSTRUCTION	2	-	15	1
				MAROSA ENTERPRISES				
				V. ROMERO CONST.				
				F. R. IGNACIO CONST.				
	6			HG&B CONSTRUCTION				
				LGH CONSTRUCTION	2	-	18	30

NOTED BY

GREGORIO R. DELUANG

PROJECT MANAGER

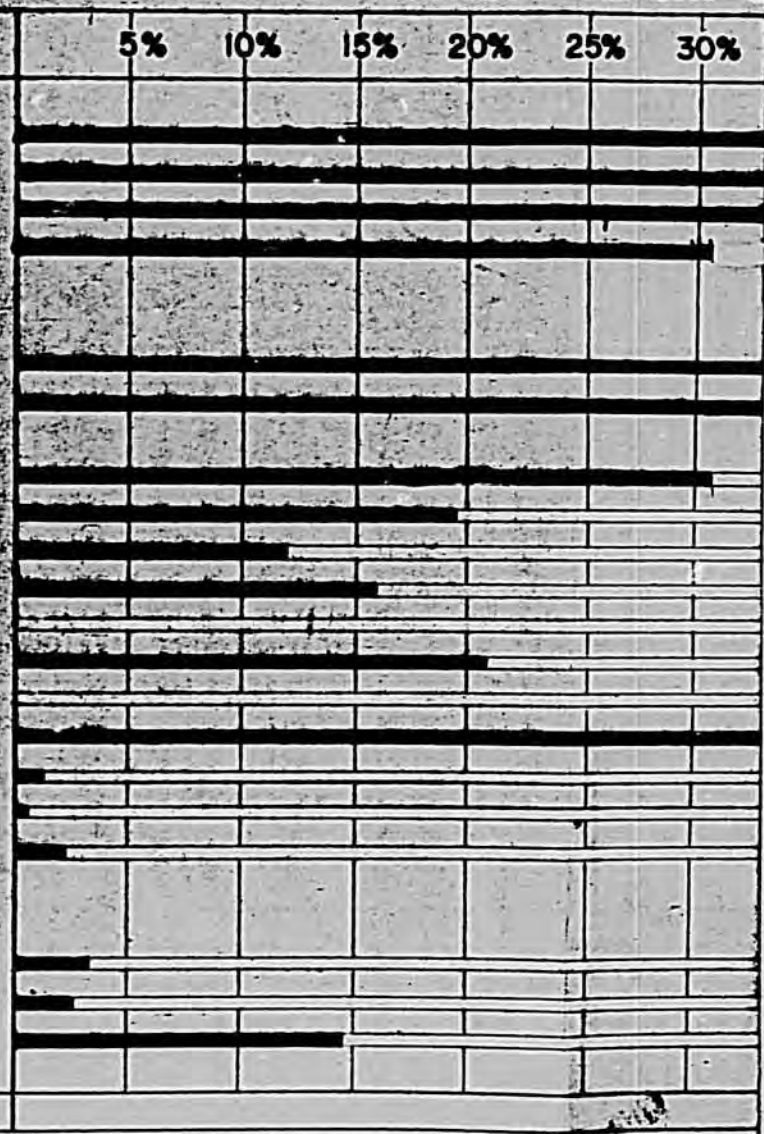
SUBMITTED BY

SALVADOR REJO, CESO II

PROJECT DIRECTOR

BULA-MINALABAC LAND CONSOLIDA
FOR THE PERIOD ENDING
FINANCIAL PROGRESS REPORT O

ITEM NO.	PARTICULARS	ESTIMATED AMOUNT	WT. %
I	PMO ADMINISTRATION & SUPERVISION	6,254,031.00	
	a. PERSONNEL SERVICES	3,536,149.00	5.12
	b. OPERATION & MAINTENANCE	2,381,939.00	3.41
	c. OFFICE EQUIPMENT & FURNITURE	79,000.00	0.12
	d. ALL OTHERS PMO	956,943.00	1.43
II	PHYSICAL INFRASTRUCTURE DEVELOPMENT	61,808,111.00	
	a. A & E DETAILED ENG'G. DESIGN *	3,328,633.00	4.82
	b. A & E CONSTRUCTION SUPERVISION *	1,728,266.00	2.50
	c. IRRIGATION, DRAINAGE, ROADS & OTHER APPURTENANT CANAL STRUCTURES *	41,216,930.00	59.72
	d. IMPORTED PUMPS	7,296,530.00	10.57
	e. HOMESITE DEVELOPMENT	4,376,600.00	
	1. ROAD CONSTRUCTION	2,946,300.00	4.27
	2. RELOCATION ALLOWANCE	108,500.00	0.16
	3. TOILETS	550,800.00	0.80
	4. HOUSEHOLD WATER FACILITIES *	771,000.00	1.11
	f. MULTI-PURPOSE & SCHOOL BUILDINGS	1,282,510.00	1.86
	g. FARMLOTS SUBDIVISION SURVEY	685,850.00	1.00
	h. R.O.W. & DAMAGES	410,000.00	0.59
	i. TEST-RUN	1,481,000.00	2.15
III	INSTITUTIONAL/AGRICULTURAL DEV'T.	256,840.00	
	a. APPLIED AGRICULTURAL RESEARCH	71,000.00	0.10
	b. TENURIAL DEVELOPMENT	46,920.00	0.07
	c. ORGANIZATIONAL DEVELOPMENT & TRAINING	138,920.00	0.20
	TOTAL	69,016,982.00	100



LEGEND:

* SUBJECT TO FIXED AMOUNT REIMBURSEMENT (FAR)

% EXPENDITURES INCURED THIS MONTH

% EXPENDITURES INCURED PREVIOUS MONTHS.

PREPARED BY:

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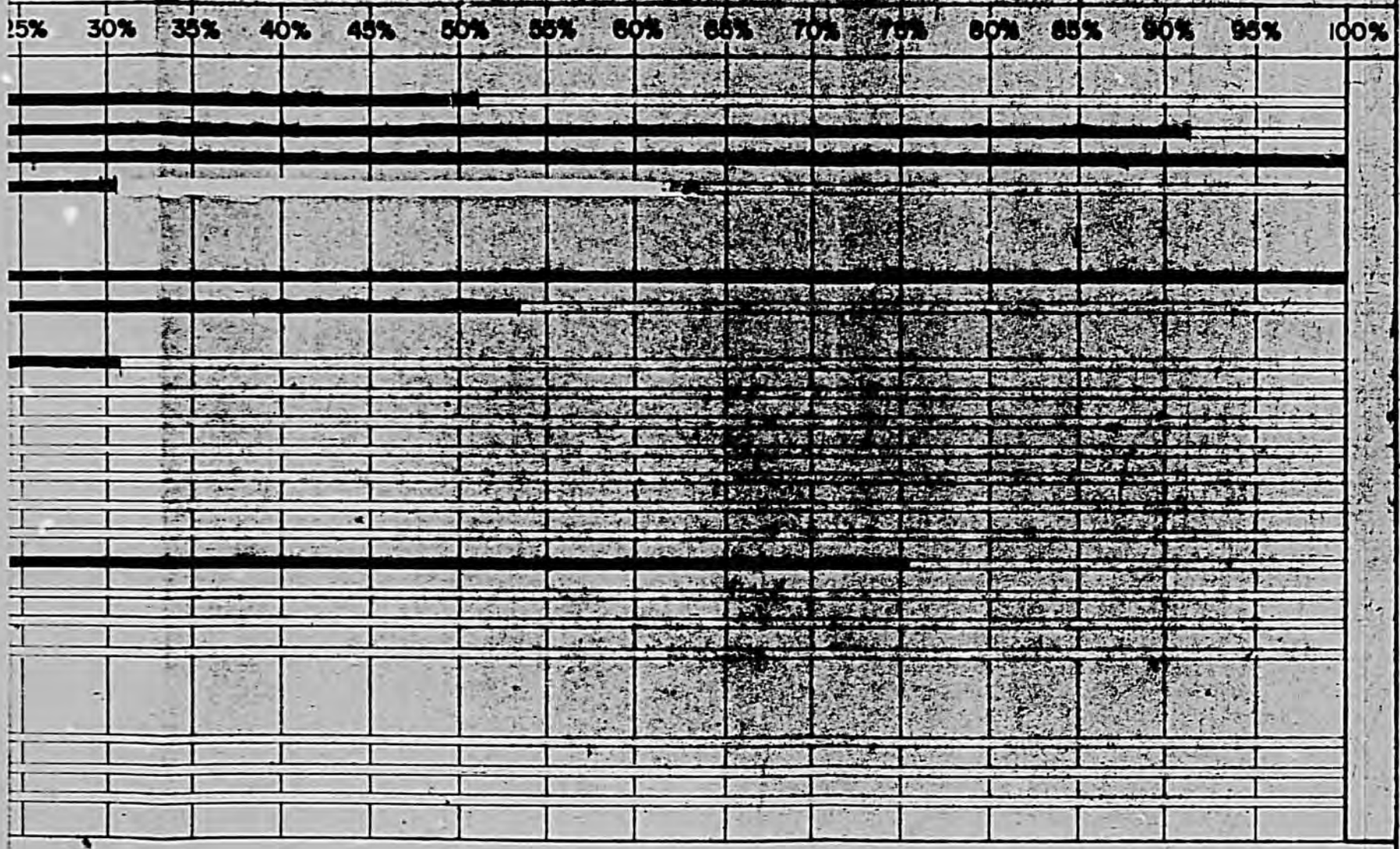
CONSOLIDATION (BIGGE IDA II-A) PROJECT

OD ENDING OCTOBER 15, 1981

REPORT OF PROJECT IMPLEMENTATION



ARED BY:

FRANCISCO E. MARGATE
PROJECT ANALYST

NOTED BY:

GREGORIO P. BELUANG
PROJECT MANAGER

SUBMITTED BY:

SALVADOR PEJO, CESO II
PROJECT DIRECTOR

ACTIVITY DESCRIPTION SUMMARY

SUMMARY OF AC
FOR THE PERIOD ENDING

BULA-MINALABAC, LAND CONSOLIDATI

	PARTICULARS:		PMO ADMINISTRATION & SUPERVISION	PHYSICAL INFRASTRUCTURE: A & E DETAILED ENG'G DESIGNS	A & E CONSTRUCTION & SUPERVISION	IRRIGATION, DRAIN, ROADS & CANAL STRUCTURES	IMPORTED PUMPS	MULTI-PURPOSE & SCHOOL BUILDINGS
1	ESTIMATED COST		6,954,031.00	3,328,633.00	1,728,258.00	41,216,930.00	7,296,530.00	1,282,510.00
2	PERCENTAGE FROM TOTAL BUDGET	%	10.08	4.82	2.50	59.72	10.57	1.86
3	ACCOMPLISHMENT THIS MONTH PROGRAMMED	%	1.65	—	2.72	2.51	—	11.70
4	ACCOMPLISHMENT THIS MONTH ACTUAL	%	1.19	—	2.72	2.41	—	—
5	ACCOMPLISHMENT TO DATE PROGRAMMED	%	56.95	100	54.86	57.45	19.49	88.30
6	ACCOMPLISHMENT TO DATE ACTUAL	%	62.61	99.37	54.86	27.36	19.49	79.57
7	PROJECTED ACCOMPLISHMENT FOR NEXT MONTH	%	1.65	—	2.72	2.51	—	—
8	OVERALL ACCOMPLISHMENT TO DATE	%	6.31	4.79	1.37	16.34	2.06	1.46
9	TOTAL EXPENDITURES THIS MONTH	P	83,357.78	278,100.36	260,216.40	5,536,968.36	—	—
10	TOTAL EXPENDITURES TO DATE	P	4,354,012.34	3,398,764.85	916,923.76	12,672,186.53	422,050.00	964,514.22
11	% OF EXPENDITURES THIS MONTH		1.19	8.35	15.05	13.43	—	—
12	% OF EXPENDITURES TO DATE		62.61	102.10	53.05	30.75	19.49	75.21
13	PROJECTED EXPENDITURES NEXT MONTH	P	115,050.00	—	47,028.92	1,035,446.67	—	—
14	PLANNED DATE STARTED		1-02-78	2-15-78	1-02-79	1-01-78	9-01-80	4-01-78
15	ACTUAL DATE STARTED		1-02-78	2-15-78	1-02-79	1-01-78	9-01-80	4-01-78
16	% OF TIME ELAPSED TO DATE		61.49	100	61.10	68.17	46.43	92.31
17	a) BEHIND SCHEDULE		—	0.63	—	30.00	—	8.73
	b) AHEAD OF SCHEDULE		8.06					
18	REASONS/REASONS FOR DELAY (IF BEHIND SCHEDULE)							
19	REASON FOR COST OVERRUN							
20	FORECAST:							
	a) EXPECTED COMPLETION DATE		12-31-83	7-31-80	6-30-83	6-30-83	12-31-82	3-31-81
	b) COST NECESSARY TO COMPLETE		6,954,031.00	3,328,633.00	1,728,258.00	41,216,930.00	7,296,530.00	1,282,510.00

PREPARED BY

GODOFREDO V. PAN JR.
C.T. [illegible]

CHECKED BY

FRANCISCO E. MARGATE
CHIEF, PROGRAMMING & MONITORING

JAIME B. ABONITA
[illegible]

FR

OF ACTIVITIES
ENDING OCTOBER 15, 1981

SHEET _____ OF _____

OLIDATION (BIDA II-A) PROJECT

UCTURE DEVELOPMENT DIVISION						INSTITUTIONAL / AGRICULTURAL DEV. DIV.				
MULTI-PURPOSE & SCHOOL BUILDINGS	HOMESITE DEVELOP-MENT	FARMLOT SUB-DIVISION & SURVEY	R.O.W. & DAMAGES	TEST-RUN	SUB-TOTAL	APPLIED AGRICULTU-RAL RE-SEARCH	TENURIAL DEVELOP-MENT	ORGANIZA-TIONAL DE-VELOPMENT & TRAINING	SUB-TOTAL	TOTAL
1,282,510.00	4,376,600.00	685,650.00	410,000.00	1,481,000.00	61,806,111.00	71,000.00	46,920.00	138,920.00	256,840.00	69,016,982.00
1.86	6.34	1.00	0.59	2.15	89.55	0.10	0.07	0.20	0.37	100.00
11.70	2.46	–	1.63	1.44	1.92	2.35	2.71	2.86	0.995	2.195
—	—	—	—	—	1.628	2.35	2.71	2.86	0.995	2.623
88.30	41.30	20.67	24.39	21.55	53.36	50.70	43.10	62.63	0.21	53.52
73.57	11.87	1.13	0.28	2.04	33.152	50.70	43.10	62.63	0.21	33.362
—	2.46	—	—	1.44	1.92	2.35	2.71	2.86	0.995	2.915
1.48	0.75	0.01	0.002	0.04	33.152	0.05	0.03	0.13	0.21	33.362
—	—	—	—	—	6,158,643.90	—	—	—	—	6,158,643.90
964,514.22	519,618.50	7,720.54	1,097.00	30,247.50	24,287,135.24	2,552.00	1,470.00	20,486.35	24,508.35	24,311,643.59
—	—	—	—	—	8.92	—	—	—	—	8.92
75.21	11.87	1.13	0.28	2.04	23.92	3.59	3.13	14.61	0.035	35.22
-	107,858.33	—	—	21,333.35	1,326,717.25	1,666.67	1,272.50	3,972.50	6,911.67	1,333,628.92
4-01-78	1-02-78	9-01-80	7-01-80	9-01-80	—	1-01-79	4-01-78	3-01-78	—	
4-01-78	1-02-78	9-01-80	7-01-80	9-01-80	—	1-01-79	4-01-78	3-01-78	—	
92.31	62.48	38.23	57.14	32.50	—	55.00	61.76	67.19		
8.73	29.43	19.54	24.11	19.51	20.208	—	—	—	—	20.208
3-31-81	12-31-83	6-30-83	3-31-83	12-31-83	—	12-31-83	11-30-83	6-30-83	—	—
1,282,510.00	4,376,600.00	685,650.00	410,000.00	1,481,000.00	61,806,111.00	71,000.00	46,920.00	138,920.00	256,840.00	69,016,982.00

NOTED BY:

FRANCISCO S. RAMOS
OIC (IADD)

GREGORIO R. BELUANG
PROJECT [illegible]

SUBMITTED BY:

SALVADOR PEJO, CESO II
PROJECT DIRECTOR

STATEMENT OF WORK ACCOMPLISHMENT FOR THE
CONSTRUCTION OF MAIN PUMPING (NO. 2 WITH INTAKE CHANNEL)
LGH CONSTRUCTION AS OF OCTOBER 1[illegible], 1981

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST (₱)	% OF ITEM	ACCOMPLISHMENT ON ITEM QUANTITY This Pd.	QUANTITY To date	PERCENTAGE This Pd.	PERCENTAGE To date	% ON CONTRACT	TOTAL EXPENDITURE
1.0	MOBILIZATION & DEMOBILIZATION	L.S.		382200.00	16.55		60		60	9.93	229320.00
2.0	PROVISIONAL SUM FOR CONSTRUCTION MAINTENANCE	L.S.		100000.00	4.33						
3.0	CLEARING & GRUBBING	SQ.M.	1930	2084.40	0.10		1930		100	0.10	2084.40
4.0	EXCAVATION	CU.M.	13160	165816.00	7.20		13160		100	7.20	165816.00
5.0	COMMON FILL	CU.M.	8600	313900.00	13.60		5160		60	8.16	188340.97
6.0	SELECTED FILL	CU.M.	480	35664.00	1.55		384		80	1.24	28531.20
7.0	GRAVEL BASE COARSE	CU.M.	360	35730.00	1.55						
8.0	3000 PSI CONCRETE	CU.M.	77	97421.17	4.22		69.3		90	3.798	87679.05
9.0	STEEL REINFORCING BARS	KGS.	6400	69760.00	3.02		6400		100	3.02	69760.00
10.0	GROUTED RIPRAP	SQ.M.	876	63641.40	2.80		788.4		90	2.52	57277.26
11.0	DERRICK STONE	SQ.M.	1046	140164.00	6.07		836.8		80	4.856	112131.20
12.0	HAND LAID RIPRAP	SQ.M.	3194	175989.40	7.62	2555.2	2874.6		90	6.858	158390.46
13.0	150 MM CHB	SQ.M.	57	7341.60	0.32	28.5	51.3		90	0.288	6655.04
14.0	REINFORCED CONCRETE PILES (.305 X .305)	L.M.	96	102048.00	4.42		96		100	4.42	102048.00
15.0	REINFORCED CONCRETE PILES (.40M X .40M)	L.M.	18	21276.00	0.92		18		100	0.92	21276.00
16.0	51 MM ø G.I. PIPE RAILING	L.M.	231	23903.88	1.04	92	92	40	40	0.416	9561.55
17.0	WIDE FLANGE (203X134MM)	KGS.	515	6360.25	0.30		515		100	0.30	6360.25
18.0	CHANNEL SECTION	KGS.	560	6916.00	0.30		560		100	0.30	6916.00
19.0	ANGULAR STEEL	KGS.	210	3334.50	0.14		210		100	0.14	3334.50
20.0	STEEL PLATES (6mm thk.)	KGS.	730	9015.50	0.40		657		90	0.36	8161.55
21.0	CHECKERED PLATES	KGS.	2530	31245.50	1.35		2024		80	1.08	25044.00
22.0	LIFTING ROD 20 mm ø	KGS.	25	300.00	0.001	25	25	100	100	.001	300.00
23.0	STEEL STRAPS (60mmX.8mm)	KGS.	117	1228.50	0.005	94	94	80	80	.004	1030.40
24.0	ANCHOR BOLTS (13mmX.20mm)	KGS.	.24	288.00	0.001		24		100	.001	288.00
25.0	STEEL PIPE DISCHARGE (.508 M ø)	L.M.	115	337559.50	14.61		103.5		90	13.158	303851.15

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST ($)	% OF ITEM	ACCOMPLISHMENT ON ITEM QUANTITY: this month	QUANTITY: to date	PERCENTAGE: this month	PERCENTAGE: to date	% ON CONTRACT	TOTAL EXPENDITURES
3.4.2	STRUCTURES BACKFILL	CU.M.	1483	24469.50	1.272	348.51		23.50		.066	1 40.41
3.4.3	3000 PSI CONCRETE	CU.M.	201	216075.00	2.691	50.18		24.97		.622	5 544.00
3.4.4	REBAR	MTS.	11128	83460.00	.962	2741.94		24.64		.237	23254.62
3.4.5	GRAVEL BEDDING	CU.M.	30	2700.00	.031	7.02		23.43		.007	632 .61
3.4.6	GROUTED RIPRAP	CU.M.	6	1797.00	.020						
3.4.7	REINFORCED CONCRETE PIPES										
3.4.7.1	.46 M ø X 1.00 M	L.M.	31	8525.00	.10	6.20		20		.02	1705.00
3.4.7.2	.76 M ø X 1.00 M	L.M.	21	11550.00	.133	21		100		.133	11550.00
3.4.7.3	.91 M ø X 1.00 M	L.M.	22	15290.00	.176	22		100		.176	15290.00
3.4.7.4	1.07 M ø X 1.00 M	L.M.	4	3464.00	.04						
3.5.	51 MM ø J.I. PIPE RAILING	L.M.	41	4100.00	.05						
3.6	2000 PSI PLAIN CONC. CANAL LINING	CU.M.	980	641900.00	7.401						
3.7	ASPHALT BASE CONSTRUCTION JOINT SEALANT	L.M.	900	137250.00	1.582						
3.8	SLIDE STEEL GATES (1.52M PRESSURE HEAD)										
3.8.1	.50 M X .50 M Sq. Assem.	PCS.	8	16000.00	.184						
3.8.2	.56 M X .55 M Sq.Assem.	PCS.	7	18550.00	.213						
3.8.3	.64 M X .40 M Rect. "	PCS.	14	38500.00	.443						
3.8.4	.95 M X .65 M Rect. "	PC.	1	3700.00	.042						
3.8.5	.95 M X .95 M Sq. "	PC.	1	4200.00	.05						
3.8.6	1.25 M X1.10 M Rect. "	PC.	1	4700.00	.054						
3.8.7	1.15 M X1.20 M Rect. "	PC.	1	4700.00	.054						
3.8.8	1.45 M X1.00 M Rect. "	PC.	1	6900.00	.08						
3.8.9	1.45 M X1.10 M Rect. "	PC.	1	7200.00	0.83						
4.0	LATERAL "A"										
4.1	EARTHWORKS										
4.1.1	CLEARING, GRUBBING & STRIPPING 30 M.		9803	10293.15	.12	8168.84		83.33		.099	11267.36
4.1.2	CANAL EXCAVATION	CU.M.	210	1785.00	.02						

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST (₱)	% OF ITEM	ACCOMPLISHMENT ON ITEM QUANTITY This Pd.	QUANTITY TO dt.	PERCENTAGE This Pd.	PERCENTAGE To date	% ON CON-TRACT	TOTAL EXPEND-TURES
26.0	INTERLINKS, GA #9	SQ.M.	110	3080.00	0.133		55		50	.067	1587.60
27.0	TRASH RACKS/STEEL GRATINGS	SQ.M.	17	17926.50	0.80	2.6	15	15.3	90	.72	16181.45
28.0	GA 18 DOUBLE PANEL STEEL DOOR (.10 m X .55m) GA 18 DRESSED STEEL	M.A	1	2445.60	0.11			.70	70	.077	1759.52
29.0	LOUVER BLADE WINDOW (.80 m x 1.20 m)	E.A.	5	2225.00	0.01			3.5	70	.007	1605.10
30.0	CONSTRUCTION DEWATERING (6.0m X 11.0 m elev. 2.00 to elevation .80m)	L.S.		124000.00	5.40		90		90	4.86	111616.60
31.1	ELECTRICAL SYSTEM	L.S.		25900.00	1.12		100		100	1.12	25900.00
	T O T A L			2308764.70	100%					75.921	1752837.25

PREPARED BY:

TERESITA B. CUADRO
C.E. Aide

CHECKED BY:

FRANCISCO E. MARGATE
Project Analyst

NOTED BY:

GREGORIO P. BELUANG
Project Manager

SUBMITTED BY:

SALVADOR PEJO, CESO II
Project Director

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ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST (₱)	% OF ITEM	ACCOMPLISHMENT ON ITEM QUANTITY THIS PD	QUANTITY TO DATE	PERCENTAGE THIS PD	PERCENTAGE TO DATE	% ON CONTRACT	TOTAL EXPENDITURES
4.1.3	EMBANKMENT FILL										
4.1.3.1	FROM CANAL EXCAVATION	CU.M.	210	3045.00	.035						
4.1.3.2	FROM COMMON BORROW	CU.M.	4479	172441.50	1.99	1236.20			27.60	.549	50283.[illegible]
4.2	GRAVEL COARSE SURFACING(SR)	CU M.	480	43200.00	.50						
4.3	SELECTED BORROW (SR)	CU.M.	698	41182.00	.474						
4.4	CANAL STRUCTURES										
4.4.1	STRUCTURES EXCAVATION	CU.M.	107	1551.50	.02	5.35			5	.001	77.58
4.4.2	STRUCTURES BACKFILL	CU.M.	[illegible]	2062.	.023						
4.4.3	3000 PSI CONCRETE	CU.M.	33	35475.00	.42	1.99			6.06	.025	4839.86
4.4.4	REBAR	KGS.	1459	10942.50	.126	299.97			20.56	.026	4939.86
4.4.5	GRAVEL BEDDING	CU.M.	4	260.00	.004						
4.4.6	GROUTED RIPRAP	CU.M.	3	898.50	.010	.18			6	.001	53.91
4.4.7	REINFORCED CONCRETE PIPES										
4.4.7.1	.46 M ø X 1.00 M	L.M.	23	6325 .00	.072						
4.4.7.2	.61 M ø X 1.00 M	L.M.	6	2550.00	.03						
4.4.7.3	.76 M ø X 1.00 M	L.M.	8	4400.00	.050						
5.0	MAIN FARM DITCHES (MFD) & SUPPLEMENTARY FARM DITCHES (SFD)										
5.1	EARTHWORKS										
5.1.1	CLEARING, GRUBBING & STRIPPING	SQ.M.	65342	68609.10	.791	3267.10			5	.039	6120.53
5.1.2	DITCH EXCAVATION	CU.M.	9878	98780.00	1.14						
5.1.3	EMBANKMENT FILL										
5.1.3.1	FROM DITCH EXCAVATION	CU.M.	9878	162987.00	1.88						
5.1.3.2	FROM COMMON BORROW	CU.M.	12997	692884.50	7.99						
5.2	FARM DITCH STRUCTURES										
5.2.1	STRUCTURE EXCAVATION	CU.M.	543	7873.50	.090						
5.2.2	STRUCTURE BACKFILL	CU.M.	376	6204.00	.071						
5.2.3	3000 PSI CONCRETE	CU.M.	170	182750.00	2.11						
5.2.4	REBAR	KGS.	2964	22230.00	.256						

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST (₱)	% OF ITEM	ACCOMPLISHMENT ON ITEM QUANTITY This Pd.	QUANTITY To Date	PERCENTAGE This Pd.	PERCENTAGE To date	% ON CONTRACT	TOTAL EXPENDITURES
5.2.5	GRAVEL BEDDING	CU.M.	12	1080.00	.012						
5.2.6	GROUTED STONE RIPRAP	CU.M.	50	14575.00	.172						
5.2.7	REINFORCED CONC. PIPES										
5.2.7.1	.46 M ø X 1.00 M	L.M.	80	22000.00	.253						
6.0	DRAINAGE DITCHES										
6.1	EARTHWORK										
6.1.1	DRAINAGE EXCAVATION	CU.M.	10942	109420.00	1.261						
6.2	DRAINAGE STRUCTURES										
6.2.1	STRUCTURES EXCAVATION	CU.M.	145	2102.50	.024						
6.2.2	STRUCTURE BACKFILL	CU.M.	107	1765.50	.020						
6.2.3	3000 PSI CONCRETE	CU.M.	24	25800.00	.30						
6.2.4	REBAR	KGS.	910	6825.00	.08						
6.2.5	GRAVEL BEDDING	CU.M.	5	450.00	.005						
6.2.6	GROUTED RIPRAP	CU.M.	95	28452.50	.33						
6.2.7	REINFORCED CONC. PIPES										
6.2.7.1	.61M ø X 1.00 M	L.M.	38	16150.00	.186						
6.2.7.2	.76 M ø X 1.00 M	L.M.	3	1650.00	.02						
6.2.7.3	.91 M ø X 1.00 M	L.M.	6	4170.00	.05						
7.0	RCP FARM LOT CROSSING(FM/RC) & FARM WATER OF TAWES(FWOT)										
7.1	STRUCTURES EXCAVATION	CU.M.	331	4799.50	.055						
7.2	STRUCTURE BACKFILL	CU.M.	194	3201.00	.036						
7.3	3000 PSI CONCRETE	CU.M.	150	161250.00	1.860						
7.4	REBAR	KGS.	3638	27285.00	.314						
7.5	GROUTED RIPRAP										
7.6	.203 M ø (FWT) PLAIN CONC. PIPES X 1.00 M	L.M.	156	10920.00	1.25						
7.7	46 ø X 1.00 M RCP (FMS)	L.M.	468	128700.00	1.48						
	TOTAL			8672159.85	100%					24.226	2100917.44

PREPARED BY:

TERESITA B. CUADRO
C.E. Aide

CHECKED:

FRANCISCO E. MARGATE
Project Analyst

NOTED:

GREGORIO P. BELIAMG
Project Manager

SUBMITTED BY:

SALVADOR PEJO, CESO II
Project Director

STATEMENT OF WORK ACCOMPLISHMENT (PHASE IV-A)
MAROSA ENTERPRISES
AS OF OCTOBER 16, 1981

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST (₱)	% OF ITEM	ACCOMPLISHMENT ON CONTRACT QUANTITIES This Pd.	QUANTITIES To Date	PERCENTAGE This Pd.	PERCENTAGE To date	% ON CONTRACT	TOTAL EXPENDITURES
1.0	GENERAL										
1.1	MOBILIZATION & DEMOBILIZATION		LUMP SUM	352560.00	4.065		55		55.	2.236	193908.00
1.2	PROVISIONAL SUM FOR MAINTENANCE OF WORK		LUMP SUM	400000.00	4.612						
1.3	PC ITEM COST OF 2 SERVICE VEHICLES 2 SET TRANSIT INSTRUMENTS AND 2 SET LEVEL INSTRUMENT		LUMP SUM	228080.00	2.63		100		100	2.63	228080.00
2.0	FARM ACCESS PATH (FAP) & FARM SERVICE ROAD (FSR)										
2.1	CLEARING GRUBBING & STRIPPING	SQ.M.	50450	52972.50	.61		10090.00		20	.122	13284.58
2.2	ROADWAY EXCAVATION	CU.M.	1000	12300.00	.41		200.00		20	.028	2460.00
2.3	COMMON BORROW FILL	CU.M.	48978	1885653.00	21.743	1498773	14012.61	3.06	28.61	6.220	542175.40
2.4	SELECTED BORROW FILL	CU.M.	8380	83940.00	5.701		838.00		10	.570	8693 .96
2.5	GRAVEL COARSE SURFACING (FSR)	CU.M.	966		1.002						
3.0	MAIN CANAL										
3.1	EARTHWORKS										
3.1.1	CLEARING, GRUBBING & STRIPPING	SQ.M.	33262	34925.10	.402		25724.83		77.34	.311	29701.15
3.1.2	CANAL EXCAVATION	CU.M.	8684	73814.00	.851		8352.22		44.36	.377	35433.97
3.1.3	EMBANKMENT FILL										
3.1.3.1	FROM CANAL EXCAVATION	CU.M.	8684	125918.00	1.451		1389.44		16	.232	22836.96
3.1.3.2	FROM COMMON BORROW	CU.M.	34650	334025.00	15.382		20904.34		60.33	9.279	807507.36
3.2	GRAVEL COARSE SURFACING (SR)	cu.m.	1190	107100.00	1.234						
3.3	SELECTED BORROW (SR)	CU.M.	800	49088.00	.566		240.00		30	.170	17416.46
3.4	CANAL STRUCTURES										
3.4.1	STRUCTURES EXCAVATION	CU.M.	899	13035.50	.150		297.92		33.14	.05	4319.96

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST (₱)	% OF ITEM	ACCOMPLISHMENT ON ITEM QUANTITY This Pd.	QUANTITY To date	PERCENTAGE This Pd.	PERCENTAGE To date	% ON CONTRACT	TOTAL EXPENDITURES
3.4.2	STRUCTURES BACKFILL	CU.M.	1483	24469.50	1.282		348.51		23.50	.066	[illegible]40.41
3.4.3	3000 PSI CONCRETE	CU.M.	201	216075.00	2.491		50.18		24.97	.622	5[illegible]544.00
3.4.4	REBAR	KGS.	11128	83460.00	.962		2741.94		24.64	.237	23254.62
3.4.5	GRAVEL BEDDING	CU.M.	30	2700.00	.031		7.02		23.43	.007	632 .61
3.4.6	GROUTED RIPRAP	CU.M.	6	1797.00	.020						
3.4.7	REINFORCED CONCRETE PIPES										
3.4.7.1	.46 M Ø X 1.00 M	L.M.	31	8525.00	.10		6.20		20	.02	1705.00
3.4.7.2	.76 M Ø X 1.00 M	L.M.	21	11550.00	.133		21		100	.133	11550.00
3.4.7.3	.91 M Ø X 1.00 M	L.M.	22	15290.00	.176		22		100	.176	15290.00
3.4.7.4	1.07 M Ø X 1.00 M	L.M.	4	3464.00	.04						
3.[illegible]	51 MM Ø G.I. PIPE RAILING	L.M.	41	4100.00	.05						
3.6	2000 PSI PLAIN CONC. CANAL LINING	CU.M.	980	641900.00	7.401				1		
3.7	ASPHALT BASE CONSTRUCTION JOINT SEALANT	L.M.	500	137250.00	1.582						
3.8	SLIDE STEEL GATES (1.52M PRESSURE HEAD)										
3.8.1	.50 M X .50 M Sq. Assem.	PCS.	8	16000.00	.184						
3.8.2	.56 M X .55 M Sq. Assem.	PCS.	7	18550.00	.213						
3.8.3	.64 M X .40 M Rect. "	PCS.	14	38500.00	.443						
3.8.4	.95 M X .65 M Rect. "	PC.	1	3700.00	.042						
3.8.5	.95 M X .95 M Sq. "	PC.	1	4200.00	.05						
3.8.6	1.25 M X1.10 M Rect. "	PC.	1	4700.00	.054						
3.8.7	1.15 M X1.20 M Rect. "	PC.	1	4700.00	.054						
3.8.8	1.45 M X1.00 M Rect. "	PC.	1	6900.00	.08						
3.8.9	1.45 M X1.10 M Rect. "	PC.	1	7200.00	0.83						
4.0	LATERAL "A"										
4.1	EARTHWORKS										
4.1.1	CLEARING, GRUBBING & STRIPPING	SQ.M.	9803	10293.15	.12		8168.84		83.33	.099	11267.36
4.1.2	CANAL EXCAVATION	CU.M.	210	1785.00	.02						

STATEMENT OF WORK ACCOMPLISHMENT (PHASE V)
HG & B CONSTRUCTION
As of October 15, 1981

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST	% OF ITEM	ACCOMPLISHED ON ITEM QUANTITY This Pd.	ACCOMPLISHED ON ITEM QUANTITY To Date	ACCOMPLISHED ON ITEM PERCENTAGE This Pd.	ACCOMPLISHED ON ITEM PERCENTAGE To Date	% ON CONT.	TOTAL EXPENDITURES
1.0	GENERAL										
1.1	Mobilization and Demobilization	L	S	178,000.00	4.948			.50	50	2.474	89,000.00
1.2	Provisional Sum for Maintenance of Work	L	S	89,980.00	2.501						
2.0	FARM ACCESS PATH (FAP) FARM SERVICE ROADS (FSR)										
2.1	Clearing and Grubbing	SQ.M.	29,095.05	24,730.80	0.687	4,911.24	4,911.24	16.88	16.88	.116	4,174.55
2.2	Common Borrow Fill	CU.M.	19,882.30	578,574.90	16.083						
2.3	Selected Borrow Fill	CU.M.	4,519.30	261,441.50	7.268						
2.4	Gravel Surfacing Coarse	CU.M.	785.10	58,097.40	1.615						
2.5	Road Excavation	CU.M.	2,088.70	18,798.30	0.523						
3.0	SUPPLY CANAL										
3.1	Clearing and Grubbing	CU.M.	3,048.00	2,590.80	0.072	1,341.12	1,341.12	44.00	44.00	.032	1,139.95
3.2	Canal Excavation	CU.M.	1,808.55	10,851.30	0.302						
3.3	Embankment Fill										
	a) From Canal Excavation	CU.M.	584.00	7,860.00	0.218						
	b) Excess From Canal Structure	CU.M.	1,284.55	44,959.25	1.250						
3.4	Canal Structures										
	a) Structure Excavation	CU.M.	162.00	2,430.00	0.068						
	b) Structure Backfill	CU.M.	129.00	3,193.00	0.061						
	c) 3000 PSI Concrete	CU.M.	24.50	34,300.00	0.963						
	d) Rebar	KGS.	1,180.30	10,622.70	0.295						
	e) Gravel Bedding (Structure Slab)	CU.M.	3.50	259.00	0.007						
	f) Grouted Riprap (Structure)	CU.M.	7.00	2,660.00	0.074						
	g) R.C. Pipes										
	0.61 m ø x 1.00 m	PCS	20.00	8,000.00	0.240						
	0.91 m ø x 1.00 m	PCS	13.00	9,620.00	0.267						

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST	% OF ITEM	ACCOMPLISHED ON ITEM QUANTITY This Pd.	QUANTITY To Date	PERCENTAGE This Pd.	PERCENTAGE To Date	% ON CONTRACT	TOTAL EXPENDITURES
3.5	Slide Steel Gates (1.51 m Press Head)										
	a) 0.50 x 0.50 m sq Assem	PCS	2.00	5,800.00	0.161						
	b) 0.55 x 0.55 m sq Assem	PCS	4.00	12,000.00	0.334						
	c) 0.65 x 0.65 m sq Assem	PCS	2.00	7,000.00	0.195						
	d) 0.95 x 0.85 m Rect Assem	PCS	1.00	5,000.00	0.140						
	e) 0.64 x 0.40m Rect Assem	PCS	5.00	1,300.00	0.361						
4.0	LATERAL "A" AND "B"										
4.1	Clearing and Grubbing	SQ.M.	24,746.30	21,034.35	0.585						
4.2	Canal Excavation	CU.M.	183.00	1,098.00	0.030						
4.3	Embankment Fill										
	a) From Canal Excavation	CU.M.	183.00	2,745.00	0.076						
	b) From Common Borrow	CU.M.	20,660.00	596,041.00	16.570						
4.4	Gravel Coarse Surfacing (SR)	cu.m.	1,820.00	134,680.00	3.744						
4.5	Selected Borrow Fill (SB)	CU.M.	2,158.00	124,840.30	3.470						
4.6	Canal Structures										
	a) Structure Excavation	CU.M.	73.00	1,095.00	0.030						
	b) Structure Backfill	CU.M.	450.00	7,650.00	0.213						
	c) 3000 PSI Concrete	CU.M.	47.50	66,500.00	1.848						
	d) Rebar	KGS.	2,409.00	21,681.00	0.603						
	e) Gravel Bedding	CU.M.	7.00	518.00	0.014						
	f) Grouted Riprap	CU.M.	3.00	1,140.00	0.032						
	g) R.C. Pipes										
	0.46 m ø x 1.00 m	PCS	32.00	9,600.00	0.267						
	0.61 m ø x 1.00 m	PCS	28.00	12,040.00	0.335						
	0.76 m ø x 1.00 m	PCS	4.00	2,200.00	0.061						
5.0	MAIN FARM DITCHES (MFD)										
	SUPPLEMENTARY FARM DITCHES (SFD)										
5.1	Clearing and Grubbing	SQ.M.	779,791.60	67,822.85	1.885	132,720.50	132,720.50	17.02	17.02	0.321	11,554.50

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST	% OF ITEM	ACCOMPLISHED ON ITEM QUANTITY This Pd.	QUANTITY To Date	PERCENTAGE This Pd.	PERCENTAGE To Date	% ON CONTRACT	TOTAL EXPENDITURES
5.2	Ditch Excavation	CU.M.	2,643.00	21,144.00	0.588						
5.3	Embankment Fill										
	a) From Ditch Excavation	CU.M.	2,643.00	39,645.00	1.102						
5.4	b) From Common Borrow	CU.M.	21,330.00	615,370.50	17.106	3,434.13	3,434.13	16.10	16.10	2.754	99,074.54
5.4	Gravel Surfacing Coarse	CU.M.	1,344.00	99,456.00	2.765						
5.5	Selected Borrow Fill	CU.M.	1,594.00		2.563						
5.6	Farm Ditch Structure										
	a) Structure Excavation	CU.M.	49.00	735.00	0.020						
	b) Structure Backfill	CU.M.	218.00	3,706.00	0.103						
	c) 3000 PSI Concrete	CU.M.	32.00	45,500.00	1.265						
	d) Rebar	KGS.	1,455.00	13,095.00	0.364						
	e) Gravel Bedding	CU.M.	5.00	370.00	0.010						
	f) Grouted Riprap	CU.M.	11.00	4,370.00	0.121						
	g) R.C. Pipes (.46 m ø x 1.00 m)	PCS	21.00	6,300.00	0.175						
6.0	Drainage Ditches										
6.1	Drainage Excavation	CU.M.	2,332.00	18,656.00	0.519						
6.2	Drainage Structure										
	a) Structure Excavation	CU.M.	63.00	945.00	0.026						
	b) Structure Backfill	CU.M.	48.00	816.00	0.023						
	c) 3000 PSI Concrete	CU.M.	8.50	11,900.00	0.331						
	d) Rebar	KGS.	392.00	3,528.00	0.099						
	e) Gravel Bedding	CU.M.	2.00	148.00	0.004						
	f) Grouted Riprap	CU.M.	26.50	10,070.00	0.28						
	g) R.C. Pipes 0.61 m ø x 1.00 m	PCS.	4.00	1,720.00	0.048						

ITEM: NO.:	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST	% OF: ITEM:	ACCOMPLISHED ON ITEM QUANTITY This Pd	ACCOMPLISHED ON ITEM QUANTITY To Date	ACCOMPLISHED ON ITEM PERCENTAGE This Pd	ACCOMPLISHED ON ITEM PERCENTAGE To Date	% OF: CONT:	TOTAL EXPENDITURES
	0.91 m ø x 1.00 m	PCS.	3.00	2,220.00	0.062						
	1.07 m ø x 1.00 m	PCS.	9.00	8,820.00	0.246						
7.0	RCP Farm Lot Crossing (FLRC) and Farm Water Off-Take (FWOT)										
7.1	Structure Excavation	CU.M.	109.00	1,635.00	0.045						
7.2	Structure Backfill	CU.M.	68.00	1,156.00	0.032						
7.3	3000 PSI Concrete	CU.M.	45.00	63,000.00	1.751						
7.4	Rebar	KGS.	1,093.00	9,837.00	0.273						
7.5	Grouted Riprap	CU.M.	17.00	6,460.00	0.18						
7.6	0.203 m ø Plain concrete Pipes x 1.00 m	PCS.	69.00	13,110.00	0.364						
7.7	0.46 m ø x 1.00 m RCP Farm Lot Crossing	PCS.	138.00	41,400.00	1150						
	TOTAL			3,597,379.70	100%					5.697%	204,943.54

PREPARED BY:

GODOFREDO V. PAN, JR.
C.E Aide

CHECKED BY:

FRANCISCO E. MARGATE
Project Analyst

NOTED BY:

GREGORIO P. BILUANG
Project Manager

SUBMITTED BY:

SALVADOR PEJO, CESO II
Project Director

STATEMENT OF WORK ACCOMPLISHMENT FOR THE
CONSTRUCTION OF MAIN PUMPING (NO. 2 WITH INTAKE CHANNEL
LGH CONSTRUCTION AS OF OCTOBER 15, 1981

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST (₱)	% OF ITEM	ACCOMPLISHMENT ON ITEM QUANTITY This Pd.	QUANTITY To date	PERCENTAGE This Pd.	PERCENTAGE To date	% ON CONTRACT	TOTAL EXPENDITURE
1.0	MOBILIZATION & DEMOBILIZATION	L.S.		382200.00	16.55		60		60	9.93	229320.00
2.0	PROVISIONAL SUM FOR CONSTRUCTION MAINTENANCE	L.S.		100000.00	4.33						
3.0	CLEARING & GRUBBING	SQ.M.	1930	2084.40	0.10		930		100	0.10	2084.40
4.0	EXCAVATION	CU.M.	13160	165816.00	7.20		13160		100	7.20	165816.00
5.0	COMMON FILL	CU.M.	8600	313900.00	13.60		5160		60	8.16	188340.97
6.0	SELECTED FILL	CU.M.	480	35664.00	1.55		384		80	1.24	28531.20
7.0	GRAVEL BASE COARSE	CU.M.	360	35730.00	1.55						
8.0	3000 PSI CONCRETE	CU.M.	77	97421.17	4.22		69.3		90	3.798	87679.05
9.0	STEEL REINFORCING BARS	KGS.	6400	69760.00	3.02		6400		100	3.02	69760.00
10.0	GROUTED RIPRAP	SQ.M.	876	63641.40	2.80		788.4		90	2.52	57277.26
11.0	DERRICK STONE	SQ.M.	1046	140164.00	6.07		836.8		80	4.856	112131.20
12.0	HAND LAID RIPRAP	SQ.M.	3194	175989.40	7.62	2555.2	2874.6		90	6.858	158390.46
13.0	150 MM CIB	SQ.M.	57	7341.60	0.32	28.5	51.3		90	0.288	6655.04
14.0	REINFORCED CONCRETE PILES (.305 X .305)	L.M.	96	102048.00	4.42		96		100	4.42	102048.00
15.0	REINFORCED CONCRETE PILES (.40M X .40M)	L.M.	18	21276.00	0.92		18		100	0.92	21276.00
16.0	51 MM ø G.I. PIPE RAILING	L.M.	231	23903.88	1.04	92	92	40	40	0.416	9561.55
17.0	WIDE FLANGE (203X134MM)	KGS.	515	6360.25	0.30		515		100	0.30	6360.25
18.0	CHANNEL SECTION	KGS.	560	6916.00	0.30		560		100	0.30	6916.00
19.0	ANGULAR STEEL	KGS.	210	3334.50	0.14		210		100	0.14	3334.50
20.0	STEEL PLATES (6mm thk.)	KGS.	730	9015.50	0.40		657		90	0.36	8161.55
21.0	CHECKERED PLATES	KGS.	2530	31245.50	1.35		2024		80	1.08	25044.00
22.0	LIFTING ROD 20 mm ø	KGS.	25	300.00	0.001	25	25	100	100	.001	300.00
23.0	STEEL STRAPS (60mmX.8mm)	KGS.	117	1228.50	0.005	94	94	80	80	.004	1030.40
24.0	ANCHOR BOLTS (13mmX.20mm)	KGS.	.24	288.00	0.001		24		100	.001	288.00
25.0	STEEL PIPE DISCHARGE (.508 M ø)	L.M.	115	337559.50	14.61		103.5		90	13.158	303851.15

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST	% OF ITEM	ACCOMPLISHED ON ITEM QUANTITY This Pd.	QUANTITY To Date	PERCENTAGE This Pd.	PERCENTAGE To Date	% ON CONTRACT	TOTAL EXPENDITURES
3.5	Slide Steel Gates (1.51 m Press Head)										
	a) 0.50 x 0.50 m sq Assem	PCS	2.00	5,800.00	0.161						
	b) 0.55 x 0.55 m sq Assem	PCS	4.00	12,000.00	0.334						
	c) 0.65 x 0.65 m sq Assem	PCS	2.00	7,000.00	0.195						
	d) 0.95 x 0.85 m Rect Assem	PCS	1.00	5,000.00	0.140						
	e) 0.64 x 0.40m Rect Assem	PCS	5.00	1,300.00	0.361						
4.0	LATERAL "A" AND "B"										
4.1	Clearing and Grubbing	SQ.M.	24,746.30	21,034.35	0.585						
.2	Canal Excavation	CU.M.	183.00	1,098.00	0.030						
4.3	Embankment Fill										
	a) From Canal Excavation	CU.M.	183.00	2,745.00	0.076						
	b) From Common Borrow	CU.M.	20,660.00	596,041.00	16.570						
4.4	Gravel Coarse Surfacing (SR)	cu.m.	1,820.00	134,680.00	3.744						
4.5	Selected Borrow Fill (SE)	CU.M.	2,158.00	124,840.30	3.470						
4.6	Canal Structures										
	a) Structure Excavation	CU.M.	73.00	1,095.00	0.030						
	b) Structure Backfill	CU.M.	450.00	7,650.00	0.213						
	c) 3000 PSI Concrete	CU.M.	47.50	66,500.00	1.848						
	d) Rebar	KGS.	2,409.00	21,681.00	0.603						
	e) Gravel Bedding	CU.M.	7.00	518.00	0.014						
	f) Grouted Riprap	CU.M.	3.00	1,140.00	0.032						
	g) R.C. Pipes										
	0.46 m ø x 1.00 m	PCS	32.00	9,600.00	0.267						
	0.61 m ø x 1.00 m	PCS	28.00	12,040.00	0.335						
	0.76 m ø x 1.00 m	PCS	4.00	2,200.00	0.061						
5.0	MAIN FARM DITCHES (MFD)										
	SUPPLIMENTARY FARM DITCHES (SFD)										
5.1	Clearing and Grubbing	SQ.M.	779,791.60	67,822.85	1.885	132,720.50	132,720.50	17.02	17.02	0.321	11,554.50

STATEMENT OF WORK ACCOMPLISHMENT (PHASE V)
HG & B CONSTRUCTION
As of October 15, 1981

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST	% OF ITEM	ACCOMPLISHED ON ITEM QUANTITY This Pd.	ACCOMPLISHED ON ITEM QUANTITY To Date	ACCOMPLISHED ON ITEM PERCENTAGE This Pd.	ACCOMPLISHED ON ITEM PERCENTAGE To Date	% ON CONT	TOTAL EXPENDITURES
1.0	GENERAL										
1.1	Mobilization and Demobilization	L	S	178,000.00	4.948			50	50	2.474	89,000.00
1.2	Provisional Sum for Maintenance of Work	L	S	89,980.00	2.501						
2.0	FARM ACCESS PATH (FAP) FARM SERVICE ROADS (FSR)										
2.1	Clearing and Grubbing	SQ.M.	29,095.05	24,730.80	0.687	4,911.24	4,911.24	16.88	16.88	.116	4,174.55
2.2	Common Borrow Fill	CU.M.	19,882.30	578,574.90	16.083						
2.3	Selected Borrow Fill	CU.M.	4,519.30	261,441.50	7.268						
2.4	Gravel Surfacing Coarse	CU.M.	785.10	58,097.40	1.615						
2.5	Road Excavation	CU.M.	2,088.70	18,798.30	0.523						
3.0	SUPPLY CANAL										
3.1	Clearing and Grubbing	CU.M.	3,048.00	2,590.80	0.072	1,341.12	1,341.12	44.00	44.00	.032	1,139.95
3.2	Canal Excavation	CU.M.	1,808.55	10,851.30	0.302						
3.3	Embankment Fill										
	a) From Canal Excavation	CU.M.	584.00	7,860.00	0.218						
	b) Excess From Canal Structure	CU.M.	1,284.55	44,959.25	1.250						
3.4	Canal Structures										
	a) Structure Excavation	CU.M.	162.00	2,430.00	0.068						
	b) Structure Backfill	CU.M.	129.00	3,193.00	0.061						
	c) 3000 PSI Concrete	CU.M.	24.50	34,300.00	0.963						
	d) Rebar	KGS.	1,180.30	10,622.70	0.295						
	e) Gravel Bedding (Structure Slab)	CU.M.	3.50	259.00	0.007						
	f) Grouted Riprap (Structure)	CU.M.	7.00	2,660.00	0.074						
	g) R.C. Pipes										
	0.61 m ø x 1.00 m	PCS	20.00	8,000.00	0.240						
	0.91 m ø x 1.00 m	PCS	13.00	9,620.00	0.267						

ITEM: NO.:	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST	% OF ITEM	ACCOMPLISHED ON ITEM QUANTITY This Pd	ACCOMPLISHED ON ITEM QUANTITY To Date	ACCOMPLISHED ON ITEM PERCENTAGE This Pd	ACCOMPLISHED ON ITEM PERCENTAGE To Date	% OF CONT	TOTAL EXPENDITURES
	0.91 m ø x 1.00 m	PCS.	3.00	2,220.00	0.062						
	1.07 m ø x 1.00 m	PCS.	5.00	8,820.00	0.246						
7.0	RCP Farm Lot Crossing (FLRC) and Farm Water Off-Take (FWOT)										
7.1	Structure Excavation	CU.M.	109.00	1,635.00	0.045						
7.2	Structure Backfill	CU.M.	68.00	1,156.00	0.032						
7.3	3000 PSI Concrete	CU.M.	45.00	63,000.00	1.751						
7.4	Rebar	KGS.	1,093.00	9,837.00	0.273						
7.5	Grouted Riprap	CU.M.	17.00	6,460.00	0.18						
7.6	0.203 m ø Plain concrete Pipes x 1.00 m	PCS.	69.00	13,110.00	0.364						
7.7	0.46 m ø x 1.00 m RCP Farm Lot Crossing	PCS.	138.00	41,400.00	1150						
	TOTAL			3,597,379.70	100%					5.697%	204,943.54

PREPARED BY:

GODOFREDO V. PAN, JR.
C.E Aide

CHECKED BY:

FRANCISCO E. MARGATE
Project Analyst

NOTED BY:

GREGORIO P. BILUANG
Project Manager

SUBMITTED BY:

SALVADOR PEJO, CESO II
Project Director

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST (₱)	% OF ITEM	ACCOMPLISHMENT ON ITEM QUANTITY This Pd.	QUANTITY TO dt.	PERCENTAGE This Pd.	PERCENTAGE To date	% ON CONTRACT	TOTAL EXPENDITURES
26.0	INTERLINKS, GA #9	SQ.M.	110	3080.00	0.133		55		50	.067	1587.60
27.0	TRASH RACKS/STEEL GRATINGS	SQ.M.	17	17926.50	0.80	2.6	15	15.3	90	.72	16181.45
28.0	GA 18 DOUBLE PANEL STEEL DOOR (.10 m X .55m) GA 18 DRESSED STEEL	M.A	1	2445.60	0.11			.70	70	.077	1759.52
29.0	LOUVER BLADE WINDOW (.80 m x 1.20 m)	E.A.	5	2225.00	0.01			3.5	70	.007	1605.10
30.0	CONSTRUCTION DEWATERING (6.0m X 11.0 m elev. 2.00 to elevation .80m)	L.S.		124000.00	5.40		90		90	4.86	111646.60
31.1	ELECTRICAL SYSTEM	L.S.		25900.00	1.12		100		100	1.12	25900.00
	T O T A L			2308764.70	100%					75.921	1752837.25

PREPARED BY:

TERESITA B. CUADRO
C.E. Aide

CHECKED BY:

FRANCISCO E. MARGATE
Project Analyst

NOTED BY:

GREGORIO P. BELUANG
Project Manager

SUBMITTED BY:

SALVADOR PEJO, CESO II
Project Director

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST (₱)	% OF ITEM	ACCOMPLISHMENT ON ITEM QUANTITY THIS PD	QUANTITY TO DATE	PERCENTAGE THIS PD	PERCENTAGE TO DATE	% ON con TRA	TOTAL EXPENDITURES
4.1.3	EMBANKMENT FILL										
4.1.3.1	FROM CANAL EXCAVATION	CU.M.	210	3045.00	.035						
4.1.3.2	FROM COMMON BORROW	CU.M.	4479	172441.50	1.99	1236.20		27.60		.549	50283.[illegible]
4.2	GRAVEL COARSE SURFACING(SR)	CU M.	480	43200.00	.50						
4.3	SELECTED BORROW (SR)	CU.M.	698	41182.00	.474						
4.4	CANAL STRUCTURES										
4.4.1	STRUCTURES EXCAVATION	CU.M.	107	1551.50	.02	5.35		5		.001	77.58
4.4.2	STRUCTURES BACKFILL	CU.M.	125	2062.	.023						
4.4.3	3000 PSI CONCRETE	CU.M.	33	35475.00	.42	1.99		6.06		.025	4839.86
4.4.4	REBAR	KGS.	1459	10942.50	.126	299.97		20.56		.026	4939.86
4.4.5	GRAVEL BEDDING	CU.M.	4	260.00	.004						
4.4.6	GROUTED RIPRAP	CU.M.	3	898.50	.010	.18		6		.001	53.91
4.4.7	REINFORCED CONCRETE PIPES										
4.4.7.1	.46 M ø X 1.00 M	L.M.	23	6325 .00	.072						
4.4.7.2	.61 M ø X 1.00 M	L.M.	6	2550.00	.03						
4.4.7.3	.76 M ø X 1.00 M	L.M.	8	4400.00	.050						
5.0	MAIN FARM DITCHES (MFD) & SUPPLEMENTARY FARM DITCHES (SFD)										
5.1	EARTHWORKS										
5.1.1	CLEARING, GRUBBING & STRIPPING	SQ.M.	65342	68609.10	.791	3257.10		5		.039	6120.53
5.1.2	DITCH EXCAVATION	CU.M.	9878	98780.00	1.14						
5.1.3	EMBANKMENT FILL										
5.1.3.1	FROM DITCH EXCAVATION	CU.M.	9878	162987.00	1.88						
5.1.3.2	FROM COMMON BORROW	CU.M.	17997	692884.50	7.99						
5.2	FARM DITCH STRUCTURES										
5.2.1	STRUCTURE EXCAVATION	CU.M.	543	7873.50	.090						
5.2.2	STRUCTURE BACKFILL	CU.M.	376	6204.00	.071						
5.2.3	3000 PSI CONCRETE	CU.M.	170	182750.00	2.11						
5.2.4	REBAR	KGS.	2964	22230.00	.256						

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST (₱)	% OF ITEM	ACCOMPLISHMENT ON ITEM: QUANTITY: This Pd.	QUANTITY: To Date	PERCENTAGE: This Pd.	PERCENTAGE: To date	% ON CONTRACT	TOTAL EXPENDITURES
5.2.5	GRAVEL BEDDING	CU.M.	12	1080.00	.012						
5.2.6	GROUTED STONE RIPRAP	CU.M.	50	14975.00	.172						
5.2.7	REINFORCED CONC. PIPES										
5.2.7.1	.46 M ø X 1.00 M	L.M.	80	22000.00	.253						
6.0	DRAINAGE DITCHES										
6.1	EARTHWORK										
6.1.1	DRAINAGE EXCAVATION	CU.M.	10942	109420.00	1.261						
6.2	DRAINAGE STRUCTURES										
6.2.1	STRUCTURES EXCAVATION	CU.M.	145	2102.50	.024						
6.2.2	STRUCTURE BACKFILL	CU.M.	107	1765.50	.020						
6.2.3	3000 PSI CONCRETE	CU.M.	24	25800.00	.30						
6.2.4	REBAR	KGS.	910	6825.00	.08						
6.2.5	GRAVEL BEDDING	CU.M.	5	450.00	.005						
6.2.6	GROUTED RIPRAP	CU.M.	95	28452.50	.33						
6.2.7	REINFORCED CONC. PIPES										
6.2.7.1	.61M ø X 1.00 M	L.M.	38	16150.00	.186						
6.2.7.2	.76 M ø X 1.00 M	L.M.	3	1650.00	.02						
6.2.7.3	.91 M ø X 1.00 L	L.M.	6	4170.00	.05						
7.0	RCP FARM LOT CROSSING(F1/RC) & FARM WATER OF TAKES(FWOT)										
7.1	STRUCTURES EXCAVATION	CU.M.	331	4799.50	.055						
7.2	STRUCTURE BACKFILL	CU.M.	194	3201.00	.036						
7.3	3000 PSI CONCRETE	CU.M.	150	161250 .00	1.860						
7.4	REBAR	KGS.	3638	27285 .00	.314						
7.5	GROUTED RIPRAP										
7.6	.203 M ø (FWT) PLAIN CONC. PIPES X 1.00 M	L.M.	156	10920.00	1.25						
7.7	46 ø X 1.00 M RCP (FLS)	L.M.	468	128700.00	1.484						
	T O T A L			8672159.85	100%					24.226	2100917.44

PREPARED BY:

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C.E. Aide

CHECKED:

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Project Analyst

NOTED:

GREGORIO P. BELIMANG
Project Manager

SUBMITTED BY:

SALVADOR PEJO, CESO II
Project Director

ITEM NO.	DESCRIPTION OF WORK	UNIT	ESTIMATED QUANTITIES	ESTIMATED COST	% OF ITEM	ACCOMPLISHED ON ITEM QUANTITY This Pd.	QUANTITY To Date	PERCENTAGE This Pd.	PERCENTAGE To Date	% ON CONTRACT	TOTAL EXPENDITURES
5.2	Ditch Excavation	CU.M.	2,643.00	23,144.00	0.588						
5.3	Embankment Fill										
	a) From Ditch Excavation	CU.M.	2,643.00	39,645.00	1.102						
5.4	b) From Common Borrow	CU.M.	21,330.00	615,370.50	17.106	3,434.13	3,434.13	16.10	16.10	2.754	99,074.54
5.4	Gravel Surfacing Coarse	CU.M.	1,344.00	99,456.00	2.765						
5.5	Selected Borrow Fill	CU.M.	1,594.00		2.563						
5.6	Farm Ditch Structure										
	a) Structure Excavation	CU.M.	49.00	735.00	0.020						
	b) Structure Backfill	CU.M.	218.00	3,706.00	0.103						
	c) 2000 PSI Concrete	CU.M.	32.00	45,500.00	1.265						
	d) Rebar	KGS.	1,455.00	13,095.00	0.364						
	e) Gravel Bedding	CU.M.	5.00	370.00	0.010						
	f) Grouted Riprap	CU.M.	11.00	4,370.00	0.121						
	g) R.C. Pipes (.46 m ø x 1.00 m)	PCS	21.00	6,300.00	0.175						
6.0	Drainage Ditches										
6.1	Drainage Excavation	CU.M.	2,332.00	18,656.00	0.519						
6.2	Drainage Structure										
	a) Structure Excavation	CU.M.	63.00	945.00	0.026						
	b) Structure Backfill	CU.M.	48.00	816.00	0.023						
	c) 3000 PSI Concrete	CU.M.	8.50	11,900.00	0.331						
	d) Rebar	KGS.	392.00	3,528.00	0.099						
	e) Gravel Bedding	CU.M.	2.00	148.00	0.004						
	f) Grouted Riprap	CU.M.	26.50	10,070.00	0.28						
	g) R.C. Pipes 0.61 m ø x 1.00 m	PCS.	4.00	1,720.00	0.048						