

## ANNEX G-2 (6) BAIRAN CIP (64ha)

### Background

- 6.01 Bairan CIP is located in Municipality of Ajuy, about 56 km north-east from Iloilo city (See the attached General Layout). Cultivation of rainfed paddy was a common practice in this community. Irrigation was first initiated by a group of farmers who tapped the Malayu-an river. They constructed a brush dam to divert the water for irrigation. They called this practice "Pasakaan". This first irrigation system served about 25 ha, but present irrigation area is 15 ha.
- 6.02 The Bureau of Soils, a Government Agency engaged in irrigation development at that time made notice of this practice and conducted the study in 1982, but the implementation was not started. The project study was again initiated by NIA in 1988. Potential service area is presently limited to about 64 ha with about 32 farmer beneficiaries.

### The Project Area

#### 6.03 Natural Conditions

The topography of the potential irrigable area is alluvial plain. The average slope of the project area is about 1.7 percent and the soil is clay loam. The climate of the project area is Type-I which is characterized by two pronounced seasons of wet and dry. The mean annual rainfall is 607 mm, and average monthly rainfall is shown below :

(Unit : mm)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
8	7	8	8	38	52	96	76	98	92	80	44	607

- 6.04 Water resources for the proposed project is the Malayu-an river which has a catchment area of about 2.6 km<sup>2</sup> at the proposed intake site. Monthly river discharge at the intake site is shown below :

(Unit : l/s)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave
90	40	38	40	136	189	230	200	226	221	200	119	144

#### 6.05 Agriculture

The total farm household in the Bairan CIP is 32, comprising 179 in population. Paddy cultivation is prevailing in the Bairan CIP area. Out of 64 ha, 15 ha is under irrigated condition, which are privately owned and operated. HYV of IR 36, 64 and 72 are commonly cultivated. The wet season paddy is planted in May to June and harvested in September to October. The dry season paddy is planted in October and harvested in March. Present cropping intensity is calculated at 170 percent. Average unit yield of irrigated paddy is estimated at 2.4 ton/ha in wet season and 2.1 ton/ha in dry season and that of rainfed paddy is estimated at 2.1 ton/ha in wet season and 1.8 ton/ha in dry season. The total production of paddy is estimated at about 225 tons per annum. Average farm size in the Bairan CIP is 2.0 ha per a farm household. The present farm economy is examined for a farm household with the average farm size as follows:

##### Gross farm income

Annual crop production (ton)	7.02
Farmgate price (₱/ton)	5,700
Gross income (₱)	40,014
Production cost (₱)	19,164
Net farm income (₱)	20,850

Major constraints for agricultural development in the Bairan CIP area are as follows:

- 1) Lack of funds for farm inputs,
- 2) Shortage of agricultural labour,
- 3) High cost of hired labour,
- 4) Insufficient post harvest facilities such as concrete floor, warehouse, farm to marketing road,
- 5) Insufficient farm inputs distribution systems, and
- 6) Insufficient extension services.

#### 6.06 Irrigator's Association (IA)

Irrigator's Association is not yet established as of July 1991, however Malayuan-Barrido IA which is tentatively named is expected to be established soon. Potential members of the IA are 32 farmers. The tenurial status of the IA's member is as follows:

1) Owner Operator	:	4
2) Leaseholder	:	24
3) Share Tenant	:	4
Total	:	32

The farmers' petition endorsed by the local government units has already been submitted to NIA.

### Irrigation Development Plan

#### 6.07 Irrigation Water Requirements and Water Balance

Proposed cropping pattern is a double cropping of paddy with 200% intensity. Based on this cropping pattern, diversion water requirements are estimated on a monthly basis as follow:

(Unit : l/sec/ha)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.97	0.03	-	-	1.04	1.21	0.28	0.53	0.05	0.68	0.54	0.8

6.08 In order to verify the adequacy of designed irrigable area, a water balance between the river discharge and estimated diversion water requirements is made on a monthly basis as follow:

Month	Sadyaya River Discharge (MCM)	Diversion Water Requirement (MCM)	Balance (MCM)
Jan	0.240	0.166	+0.074
Feb	0.097	0.001	+0.096
Mar	0.102	0	+0.102
Apr	0.103	0	+0.103
May	0.365	0.178	+0.187
Jun	0.490	0.200	+0.290
Jul	0.615	0.007	+0.608
Aug	0.535	0.092	+0.443
Sep	0.585	0.009	+0.576
Oct	0.592	0.116	+0.476
Nov	0.518	0.089	+0.429
Dec	0.318	0.132	+0.186

As a result of the water balance study, the Malayu-an river discharge is judged adequate to irrigate the designed irrigable area of 64 ha in both wet and dry seasons.

#### 6.09 Project Works

The project will provide perennial irrigation water through the construction of the following irrigation facilities:

- 1) Diversion Dam(See the attached design drawing)
  - Type of Weir : Ogee,Rubble Masonry surfaced by Concrete
  - Length of weir : 15 m
  - Height of Weir : 1.2 m
  - Intake Discharge : 0.078 cms
- 2) Main Canal
  - Length : 2,200 m
  - Structures : 27 nos
- 3) Lateral canal
  - Length : 900 m
  - Structures : 7 no
- 4) Farm Ditches-Length : 2,900 m
- 5) Drainage Canals-Length : 800 m
- 6) Access Road-Length : 1,000 m

#### 6.10 Project Cost

The project costs for the above project works are estimated below:

Items	Cost (₹1,000)
1) Diversion Dam	1,870
2) Main and Lateral Canals	2,014
3) On-farm Facilities	92
4) Drainage Canals	60
5) Others(Project Office)	30
6) Access Road	77
Total Direct Cost	4,143
7) G.E.S.A.(12% of Direct Cost)	497.16
8) Contingency (12% of Direct Cost)	497.16
Total	5,137.32

## Project Justification

### 6.11 Economic Internal Rate of Return

EIRR is calculated from the following economic benefits and costs :

<u>Annual Incremental Benefits (₱1,000 )</u>	
-Net value under without project condition	791
-Net value under with project condition	1,425
-Incremental benefit	634
<u>Economic Costs (₱1,000 )</u>	
-Total project cost	4,110
-Annual O & M cost	82
-Total cost	4,192

The EIRR of Bairan CIP is estimated at 11 %.

### 6.12 Farm Budget Analysis

Farm budget analysis is made in order to assess the capacity to pay the amortization fee for the chargeable cost of the project and the operation and maintenance fee required. The farm budget is examined for a farmer with the average farm size as follows:

Items	Without Project(2.0 ha)	With Project(2.0 ha)
Farm income (₱)	40,014	72,960
Production cost (₱)	19,164	33,405
(Amortization fee (₱))	538	2,288
(Annual O&M fee (₱))	164	700
Net reserve (₱)	20,850	39,555

### 6.13 Socio-economic Impacts

The realization of an irrigation project would bring about the uplift of the living standard of the community. Neither electricity nor means of transport is available in Sitio Bairan where a portion of the project site is located. No adverse effect is predicted by this project.

6.14 Peace and Order Assessment

Peace and order condition has been generally maintained in this area.

Conclusions and Recommendations

6.15 *The farmers in the project area are suffering from low farm income and the economic condition of the farmers is at subsistence level. The implementation of this project is expected to contribute to improve the farmers' living standard.*

6.16 *Preliminary designs of proposed diversion dam and main canal were made, using the available data such as a topographic map(1/4,000 scale), topographic profile of proposed canal route and so on. JICA Study Team did not carry out the alternative studies on the dam sites and main canal routes. Because the topographic map is just prepared only for the proposed irrigation service area, and the map of the surrounding area is not prepared. It is necessary to study whether the proposed dam site and canal route are economically and technically feasible or not, through the alternative studies on them.*

**PRE-FEASIBILITY SUMMARY DATA (6/10)**

**SUB-PROJECT: BAIKAN CIP**

**PROVINCE: ILOILO**

**GENERAL**

Name of Sub-project: Proposed Service Area:	BAIKAN CIP 64 ha
Region:	VI
Province:	Iloilo
Municipality:	Aiyu
Type of SSIDP:	Alluvial Plain
Availability of P/S report:	Yes prepared in 1990
Necessity of Rehabilitation:	No
Recent Rehabilitation:	No
Funding Source:	Not arranged yet
Availability of topo-map (1/4,000):	Yes prepared in 1990
engineers designs:	No

**EXISTING IRRIGATION/DRAINAGE FACILITIES**

Diversion Dam:	No
Diversion Channel:	No
Main/Lateral Canal:	No
Field Ditches:	No
Project/Farm Drain:	No
Access Road:	No
Service Road:	No
Flood Protection Dike:	No
Project Building:	No
Other Facilities:	No
Pumps:	No
Siphon:	No
Aqueduct:	No
Bridge:	No
Type of Diversion Dam:	
Location of main/lateral canal:	

**SOCIO-ECONOMIC DATA**

Population:	179	Availability of water supply:	No
Nos. of Household:	32	power supply:	Yes
Average Size of Household:	5.6	rice mill:	Yes
Nos. of Farm Household:	32	storage facilities:	No
Nos. of Farm Beneficiaries:	32		

Agrarian Reform:		%
Area cultivated by owner operators and CARP amortizing owners:	13	
Area still eligible for re-distribution:	87	
Area listed under CARP:	89	

**SOIL CONDITION**

Soil Type:	Bansac Loam
Land Classification:	IR

**METEOROLOGY/HYDROLOGY**

Climate Type:	Annual Rainfall:	607 mm
Monthly Rainfall (mm):	Jan.	8
	Feb.	7
	Mar.	8
	Apr.	8
	May	38
	Jun.	52
	Jul.	96
	Aug.	76
	Sep.	98
	Oct.	92
	Nov.	80
	Dec.	44
	Total	607
Water Sources:	Catchment Area:	sq. km (at diversion point)
River discharge:	Jan.	90
	Feb.	40
	Mar.	38
	Apr.	40
	May	136
	Jun.	189
	Jul.	230
	Aug.	200
	Sep.	226
	Oct.	221
	Nov.	200
	Dec.	119
	Ave.	144

**IRRIGATION DEVELOPMENT PLAN**

Designed Irrigable Area:	Wet:	64 ha	Dry:	64 ha
Proposed Irrigation Intensity:	200% (wet + dry) / wet x 100			
% of Area Restoration (CIS):	78 %/sec			
Diversion Water Requirement:	0.52 l/sec/ha			
Farm Water Requirement:	- l/sec/ha			
Drainage Water Requirement:	-			

**PROPOSED PROJECT WORKS**

Irrigation/Drainage Facilities	New Construction	Rehabilitation
Diversion Dam	Yes: Ogee, L = 15m, H = 1.2 m	
Diversion Channel	No	
Earth Canal	Yes: 2.2 km	
Lined Canal	Yes: 2.14 km	
Main/Lateral Canal	Yes: 2.9 km	
Earth Canal	Yes: 0.8 km	
Lined Canal	No	
Field Ditches	Yes: 1.0 km	
Project/Farm Drains	Yes: IA Building	
Service Road	Yes: Bunkhouse	
Access Road		
Flood Protection Dike		
Project Building		
Other Facilities		

**PROJECT COST**

Chargeable Cost	Non-Chargeable Cost
Diversion Works	1,870,000
Main/Lateral/Canals	2,014,000
On-farm Facilities	92,000
Others	90,000
Total	4,066,000
Per ha	63,530
Total Project Cost (Financial):	Total P 5,137,520
	Per ha P 80,270

**PROJECT BENEFITS**

Cropped Area without Project (ha)									
	Irrigated		Wet		Rainfed		Total		Total
	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	
Paddy	15	15	30	49	30	79	64	45	109
Com/Others	0	0	0	0	0	0	0	0	0
Total	15	15	30	49	30	79	64	45	109

**Cropped Area with Project (ha)**

	Irrigated		Wet		Rainfed		Total		Total
	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	
Paddy	64	64	128	0	0	0	64	64	128
Com/Others	0	0	0	0	0	0	0	0	0
Total	64	64	128	0	0	0	64	64	128

**Annual Net Production Values without Project (Px1,000)**

	Paddy	Com/Others	Total
Production (ton)	225	-	225
Farmgate Price (P/ton)	5,730	-	5,730
Gross Value P x 1,000	1,289	-	1,289
Production Cost	498	-	498
Net Value P x 1,000	791	-	791

**Annual Net Production Values with Project (Px1,000)**

	Paddy	Com/Others	Total
Production (ton)	410	-	410
Farmgate Price (P/ton)	5,734	-	5,734
Gross Value P x 1,000	2,351	-	2,351
Production Cost	926	-	926
Net Value P x 1,000	1,425	-	1,425

**PROJECT JUSTIFICATION**

Total Economic Cost (P1,000):	P 4,110
Annual Net Incremental Benefits (P1,000):	P 634
Annual O&M Cost (P1,000):	P 82
Project Life	50 years
Benefit Build-up Period	3 years
Economic Internal Rate of Return (EIRR)	11%

**FARM ECONOMY**

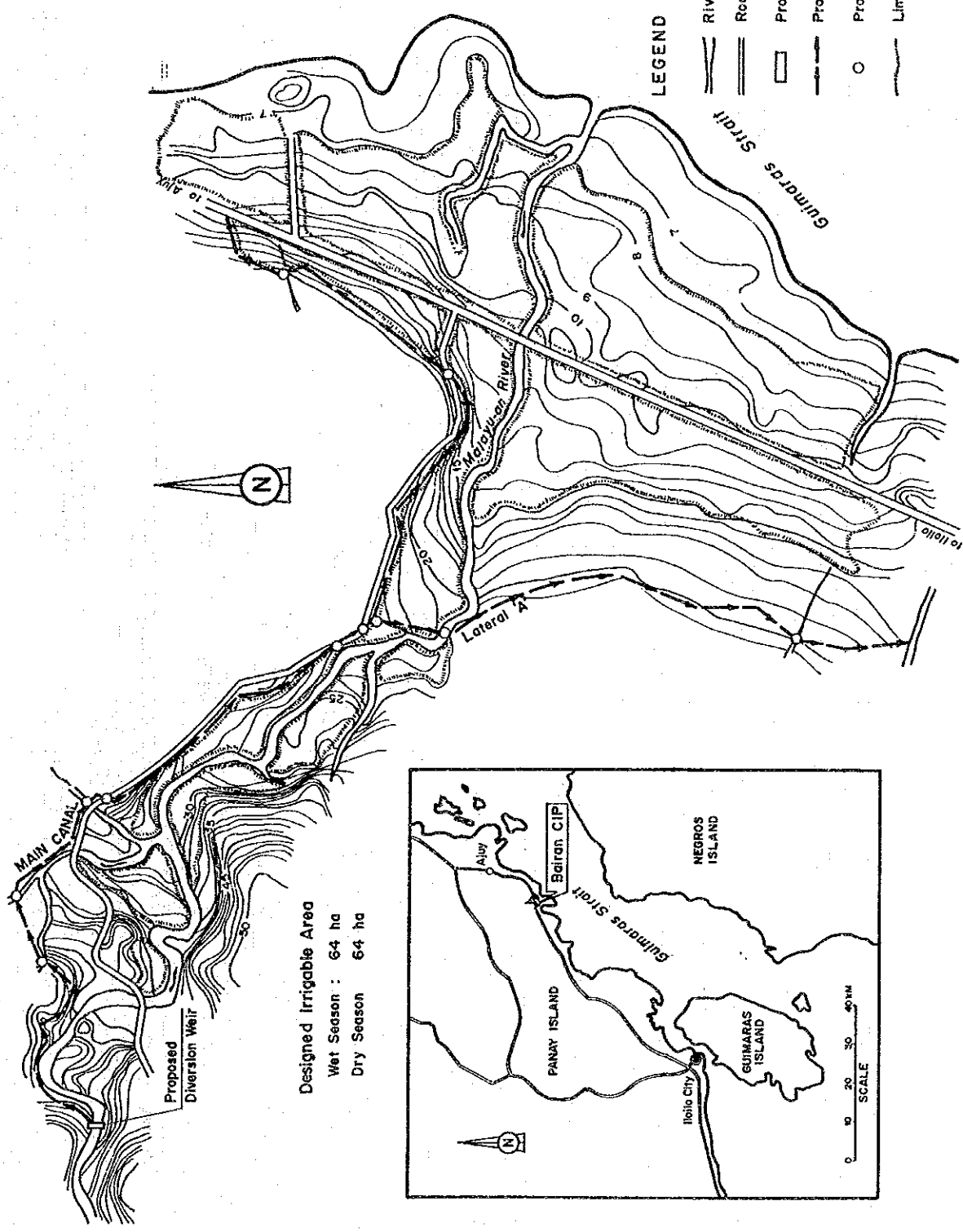
Farm Size	Nos.	%	Average Farm Size
<1.0	0	0	Annual Net Farm Income
1.0-2.0	12	36	without Project:
2-2.0	20	64	with Project:
Total	32	100	Net Incremental Farm Income:
			P 18,705

**STATUS OF IA**

IA organized:	No	Yes
Name of IA:	Malayan-Barrido (proposed)	
Date registered:		
Nos. of IA Members:	32 (potential)	
IA Loan (x P1,000):		

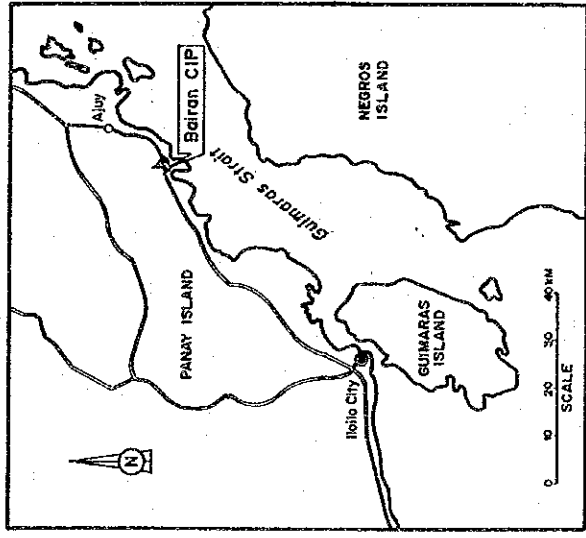
**ENVIRONMENTAL ISSUES**

Water pollution:	little
Deforestation:	fair
Soil erosion:	fair
Sedimentation:	fair
Schistosomiasis:	no



- LEGEND**
- River
  - Road
  - Proposed Diversion Weir
  - Proposed Main Canal/Lateral
  - Proposed Structure
  - Limit of Designed Irrigable Area

**Proposed Diversion Weir**  
**Designed Irrigable Area**  
 Wet Season : 64 ha  
 Dry Season : 64 ha



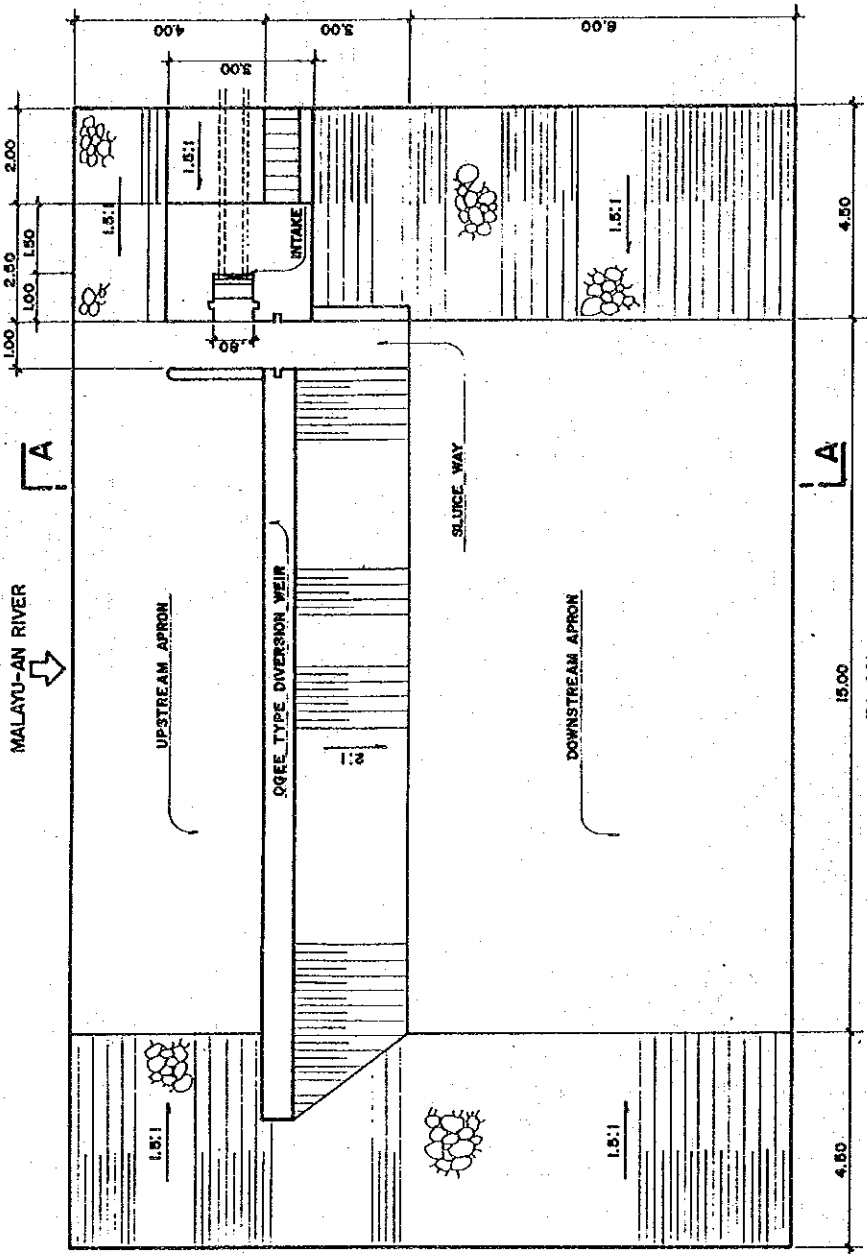
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**SCALE**

**MASTER PLAN STUDY ON SMALL SCALE IRRIGATION DEVELOPMENT PROJECT**  
**BAIRAN CIP (Iloilo Province), GENERAL LAYOUT**

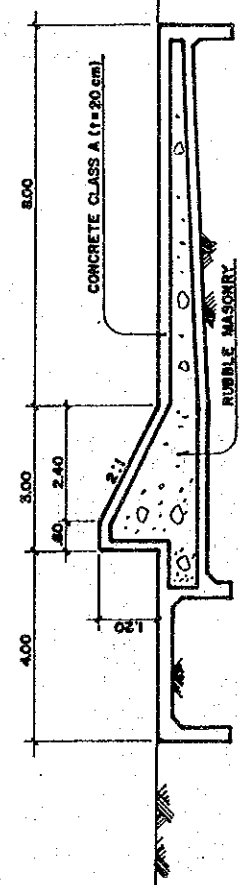
Japan International Cooperation Agency August, 1991



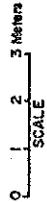
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PLAN



SECTION A-A



MASTER PLAN STUDY ON SMALL SCALE IRRIGATION DEVELOPMENT PROJECT  
**BAIRAN CIP (Iloilo Province), DIVERSION WEIR**  
 Japan International Cooperation Agency      October , 1991

## ANNEX G-2 (7) TAG-AMAKAN CIS (51ha)

### Background

- 7.01 Tag-Amakan CIS having a potential irrigation area of 51ha is located in Municipality of Asturias, about 86 km north-west from Cebu city(See the attached General Layout). The irrigation facilities were constructed in 1981 and this irrigation system was turned-over to the Tag-Amakan IA in August 1982.
- 7.02 Tag-Amakan CIS was very functional until it was heavily damaged by a typhoon in 1985. Some portions of the diversion dam and conveyance facilities were rehabilitated in 1990 but the IA still needs entire rehabilitation works of the facilities. The feasibility study on this rehabilitation project is not completed yet.

### The Project Area

#### 7.03 Natural Conditions

The project area is located in the flat area in valley with an average land slope of 0.40%. Soil type of irrigation area is clay loam. The climate of the project area is Type-III which is characterized by no very pronounced seasons but relatively dry from February to May and wet during the rest of the year. The mean annual rainfall is 1,378 mm, and average monthly rainfall is shown below :

(Unit : mm)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
113	62	43	31	53	112	135	128	144	207	188	157	1,373

- 7.04 Water source of the Tag-Amakan CIS is the Balamban river which is the biggest river in the Cebu Island. The catchment area of the Balamban river is 5.5 km<sup>2</sup> at the diversion dam site, and monthly river discharge at this site is shown below :

(Unit : l/s)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave
172	132	127	123	149	177	190	161	174	157	482	134	182

#### 7.05 Agriculture

The total number of farm households in the Tag-Amakan CIS is 65, comprising 299 in population. Out of 51 ha, 13 ha are presently irrigated both in the wet and dry

seasons. Remaining 38 ha are under irrigated condition. Major crop in the area is paddy followed by corn under rainfed condition. HYV of IR 26 and IR 36 are commonly cultivated by transplanting method. The wet season paddy is planted in June to July and harvested in November to December. Present cropping intensity is calculated at 125 percent. Average unit yield of paddy is estimated at 1.8 ton/ha in wet season and 2.0 ton/ha in dry season and that of rainfed paddy and corn are estimated at 0.5 ton/ha and 1.3 ton/ha, respectively. The total production of paddy is estimated at about 58 tons per annum and that of corn is estimated at 26 ton. Average farm size in the Tag-Amakan CIS is 0.78 ha per a farm household. The present farm economy is examined for a farmer with the average farm size as follows:

Gross farm income

Annual crop production (ton)	0.94
Farmgate price (₱/ton)	5,000(paddy), 4,500(corn)
Gross income (₱)	6,314
Production cost (₱)	3,262
Net farm income (₱)	3,052

Major constraints for agricultural development in the Tag-Amakan CIS area are as follows:

- 1) Insufficient funds for farm inputs
- 2) Hazards caused by snails and tungro
- 3) Insufficient irrigation water during dry season
- 4) Lack of farm to marketing road
- 5) Insufficient post harvest facilities such as rice mill, threshers, concrete floor
- 6) Insufficient agricultural extension services

7.06 Existing Irrigation and Drainage System

The existing irrigation facilities in the system are as follows:

1) Diversion Dam

-Type	: Concrete Ogee and Brush Dam
-Length of Weir	: 80 m
(Concrete Weir Portion)	: (20 m)
(Brush Weir Portion)	: (60 m)
-Height of Weir	: 0.8 m
-Intake Discharge	: 0.087 cms
-Flood Protection Dike(Right)	: 60 m

- 2) Main Canal
  - Lined Canal : 680 m
  - Earth Canal : 1,100 m
  - Total : 1,780 m
  - Related Structures : 9 nos
- 3) Field Ditches-Length : 2,050 m

7.07 The Balamban river has a width of about 80 m at the intake site. In 1990, the intake structure and 20 m of the concrete weir were rehabilitated. On the remaining 60 m of river portion, a temporary brush weir was constructed due to the shortage of project fund. The flood protection dike was also constructed at the upstream of the intake, but the left dike was totally damaged. As the water leakage from the earth canal is observed, concrete lining of the earth canal is required.

7.08 Irrigator's Association (IA)

Tag-Amakan IA has been organized for the operation and maintenance of the irrigation system. Present member of the IA is 23 farmers, and 92 percent of the member is active. The tenurial status of IA's member is as follows:

- 1) Owner Operator : 2
- 2) Part-Owner : 9
- 3) Share Tenant : 12
- Total : 23

The farmers' petition endorsed by the local government units has already been submitted to NIA.

Irrigation Development Plan

7.09 Irrigation Water Requirements and Water Balance

Proposed cropping pattern is a double cropping of paddy with 200% intensity. Based on this cropping pattern, diversion water requirements are estimated on a monthly basis as follow:

(Unit : l/sec/ha)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-	0.78	1.28	1.22	1.14	0.14	0.45	0.73	0.59	0	0	-

7.10 In order to verify the adequacy of designed irrigable area, a water balance between the river discharge and estimated diversion water requirements is made on a monthly basis as follow:

Month	Sadyaya River Discharge (MCM)	Diversion Water Requirement (MCM)	Balance (MCM)
Jan	0.140	0	+0.140
Feb	0.080	0.040	+0.040
Mar	0.080	0.070	+0.010
Apr	0.090	0.070	+0.020
May	0.090	0.060	+0.030
Jun	0.110	0.010	+0.100
Jul	0.130	0.060	+0.070
Aug	0.110	0.100	+0.010
Sep	0.110	0.080	+0.030
Oct	0.100	0	+0.100
Nov	0.110	0	+0.110
Dec	1.000	0	+1.000

As a result of the water balance study, the Balamban river discharge is judged adequate to irrigate the designed irrigable area of 51 ha in both wet and dry seasons.

#### 7.11 Rehabilitation Plan

The following rehabilitation works are required for restoration of irrigation area and achievement of the proper water distribution.

- 1) Diversion Dam(See design drawing)
  - Construction of concrete ogee type weir instead of the brush dam(60 m length)
  - Construction of flood protection dike for the left bank(600 m length)
- 2) Main Canal
  - Improvement of earth canal to concrete flume canal(1,100 m length)
- 3) Lateral Canal
  - Newly construction of two lateral canals with concrete lining (1,760m length)

### 7.12 Project Cost

The project costs for the above rehabilitation works are estimated below:

Items	Cost (₱1,000)
1) Diversion Dam	842
2) Main and Lateral Canals	722
3) Flood Protection Dike	472
4) Access Road	51
Total Direct Cost	2,087
5) G.E.S.A.(12% of Direct Cost)	250.5
6) Contingency (12% of Direct Cost)	250.5
Total	2,588

### Project Justification

#### 7.13 Economic Internal Rate of Return

EIRR is calculated from the following economic benefits and costs :

<u>Annual Incremental Benefits (₱1,000 )</u>	
-Net value under without project condition	286
-Net value under with project condition	893
-Incremental benefit	607
<u>Economic Costs (₱1,000 )</u>	
-Total project cost	2,070
-Annual O & M cost	41
-Total cost	2,111

The EIRR of Tag-Amakan CIS is estimated at 20 %.

#### 7.14 Farm Budget Analysis

Farm budget analysis is made in order to assess the capacity to pay the amortization fee for the chargeable cost of the rehabilitation works and the operation and maintenance fee required. The farm budget is examined for a farmer with the average farm size as follows:

Items	Without Project(0.78 ha)	With Project(0.78 ha)
Farm income (₱)	6,314	18,720
Production cost (₱)	3,262	9,255
(Amortization fee (₱))	110	430
(Annual O&M fee (₱))	108	256
Net reserve (₱)	3,052	9,567

**7.15 Socio-economic Impacts**

Beneficial effect of the project is an increase in crop production. Water-borne disease resulting from an improper drainage condition has not been reported, but care must be observed to check any growth of water-borne disease that may have an adverse effect by the project.

**7.16 Peace and Order Assessment**

Presently no insurgencies are reported in and around the Tag-Amakan CIS, although there were some activities of insurgencies in the past.

**Conclusions and Recommendations**

7.17 Their recent problems are incomplete diversion dam, and porous and insufficient irrigation canals. They desire that these facilities are rehabilitated and restored. The rehabilitation is expected to increase agricultural production and to improve their living standard.

GENERAL METEOROLOGY/HYDROLOGY

Name of Sub-project: Proposed Service Area:	TAG-AMAKAN 51 ha
Region: Province: Municipality:	VII Cebu Asturias
Type of SSIDP: Availability of FS report: Necessity of Rehabilitation: Recent Rehabilitation: Funding Source: Availability of topographic designs:	Flat area in Valley No (FS report for last rehab. is available) Yes 1990 (Budget was short.) Not arranged yet Yes No

Climate Type:	III	Annual Rainfall:	1,373 mm										
Monthly Rainfall (unit:mm)	Jan. 113	Feb. 62	Mar. 43	Apr. 31	May 51	Jun. 112	Jul. 135	Aug. 128	Sep. 144	Oct. 207	Nov. 188	Dec. 157	Total 1,373
Water Sources:	Balamban river												
Catchment Area:	5.5 sq.km (at diversion point)												
River discharge (unit:l/sec.)	Jan. 172	Feb. 132	Mar. 121	Apr. 123	May 149	Jun. 177	Jul. 190	Aug. 161	Sep. 174	Oct. 157	Nov. 134	Dec. 134	Total 182

IRRIGATION DEVELOPMENT PLAN

Designed Irrigable Area:	Wet: 51 ha	Dry: 51 ha
Proposed Irrigation Intensity:	200 % (wet + dry) / wet x 100	
% of Area Restoration (CIS):	75 % (Area restored / Service area) x 100	
Diversion Water Requirement:	87.2 l/sec	
Farm Water Requirement:	0.85 l/sec/ha	
Drainage Water Requirement:	- l/sec/ha	

PROPOSED PROJECT WORKS

Irrigation/Drainage Facilities	New Construction	Rehabilitation
Diversion Dam		
Diversion Channel		Existing brush type (L = 60m) to be replaced by ogce type.
Earth Canal		
Lined Canal		
Main/Lateral Canal		
Earth Canal		
Lined Canal		
Field Ditches		
Project/Farm Drains		
Access Road		
Flood Protection Dike		
Project Building		
Other Facilities		

PROJECT COST

Diversion Works	Charitable Cost	Non-Charitable Cost
Main/Lateral Canals	P 842,000	Flood Dike P 472,000
On-farm Facilities	P 722,000	Access Road P 51,000
Others	P -	Overheads P 501,000
Total	P 1,564,000	Total P 1,024,000
Per ha	P 30,670	Per ha P 20,080
Total Project Cost (Financial)	Total P 2,588,000	Per ha P 50,750

SOCIO-ECONOMIC DATA

Population:	299	Availability of water supply:	No
Nos. of Household:	65	power supply:	No
Average Size of Household:	4.6	rice mill:	No
Nos. of Farm Household:	65	storage facilities:	No
Nos. of Farm Beneficiaries:	65		
Agrarian Reform:	%		
Area cultivated by owner operators and CARP amortizing owners:	29		
Area still eligible for re-distribution:	71		
Area listed under CARP:	89		
Soil Condition			
Soil Type:	Feron Clay		
Land Classification:	1R		

PROJECT BENEFITS

Cropped Area without Project (ha)											
Paddy	Irrigated			Rainfed			Total				
	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	Total		
13	13	26	18	0	18	31	13	44			
0	0	0	20	0	20	20	0	20			
0	0	0	0	0	0	0	0	0			
13	13	26	38	0	38	51	13	64			
Cropped Area with Project (ha)											
Paddy	Irrigated			Rainfed			Total				
	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	Total		
51	51	102	0	0	0	51	51	102			
0	0	0	0	0	0	0	0	0			
51	51	102	0	0	0	51	51	102			

Annual Net Production Values without Project (Px1,000)											
Production (ton)	Paddy			Corn/Others			Total				
	58	58	58	26	26	84					
Farmgate Price (P/ton)	6,074			5,340			5,340				
Gross Value P x 1,000	353			139			492				
Production Cost	150			56			206				
Net Value P x 1,000	203			83			286				

Annual Net Production Values with Project (Px1,000)											
Production (ton)	Paddy			Corn/Others			Total				
	245	245	245	26	26	271					
Farmgate Price (P/ton)	6,074			5,340			5,340				
Gross Value(P 000)	1,488			1,390			2,878				
Production Cost(P 000)	595			56			651				
Net Value(P 000)	893			83			976				

PROJECT JUSTIFICATION

Total Economic Cost (P1,000):	P 2,070
Annual Net Incremental Benefits (P1,000):	P 607
Annual O&M Cost (P1,000):	P 41
Project Life	50 years
Benefit Build-up Period	3 years
Economic Internal Rate of Return (EIRR)	20 %

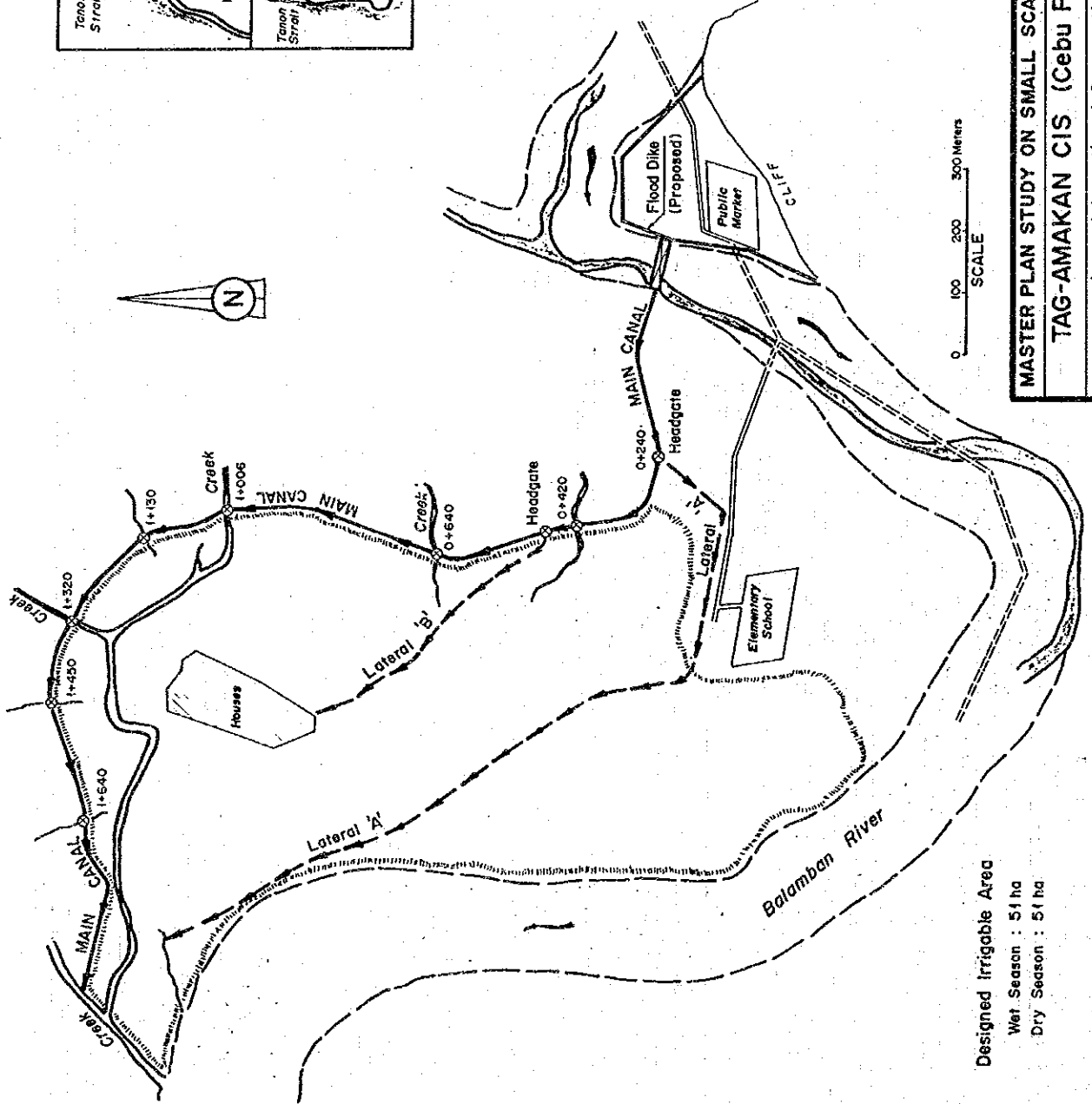
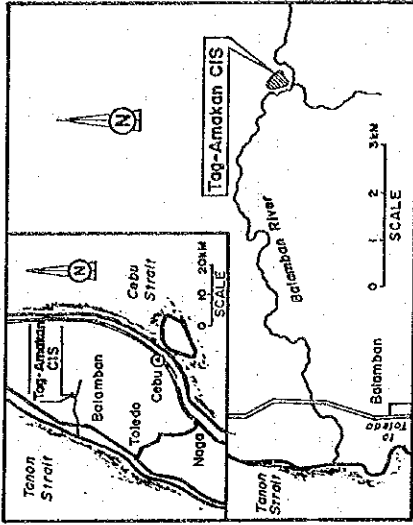
FARM ECONOMY

Farm Size	Nos.	%	Average Farm Size:
<1.0	52	80	Annual Net Farm Income:
1.0-2.0	13	20	without Project:
>2.0	0	0	with Project:
Total	65	100	Net Incremental Farm Income:

STATUS OF IA

IA organized:	Yes	Water pollution:	little
Name of IA:	Tag-amakan	Deforestation:	fair
Date of IA:	June 22, 1982	Soil erosion:	little
Nos. of IA Members:	23	Socialization:	fair
IA Loan (x P1,000):	1,378.915	Schistosomiasis:	no





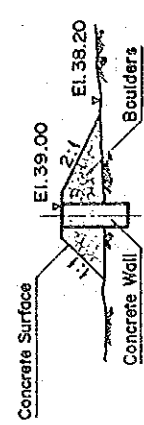
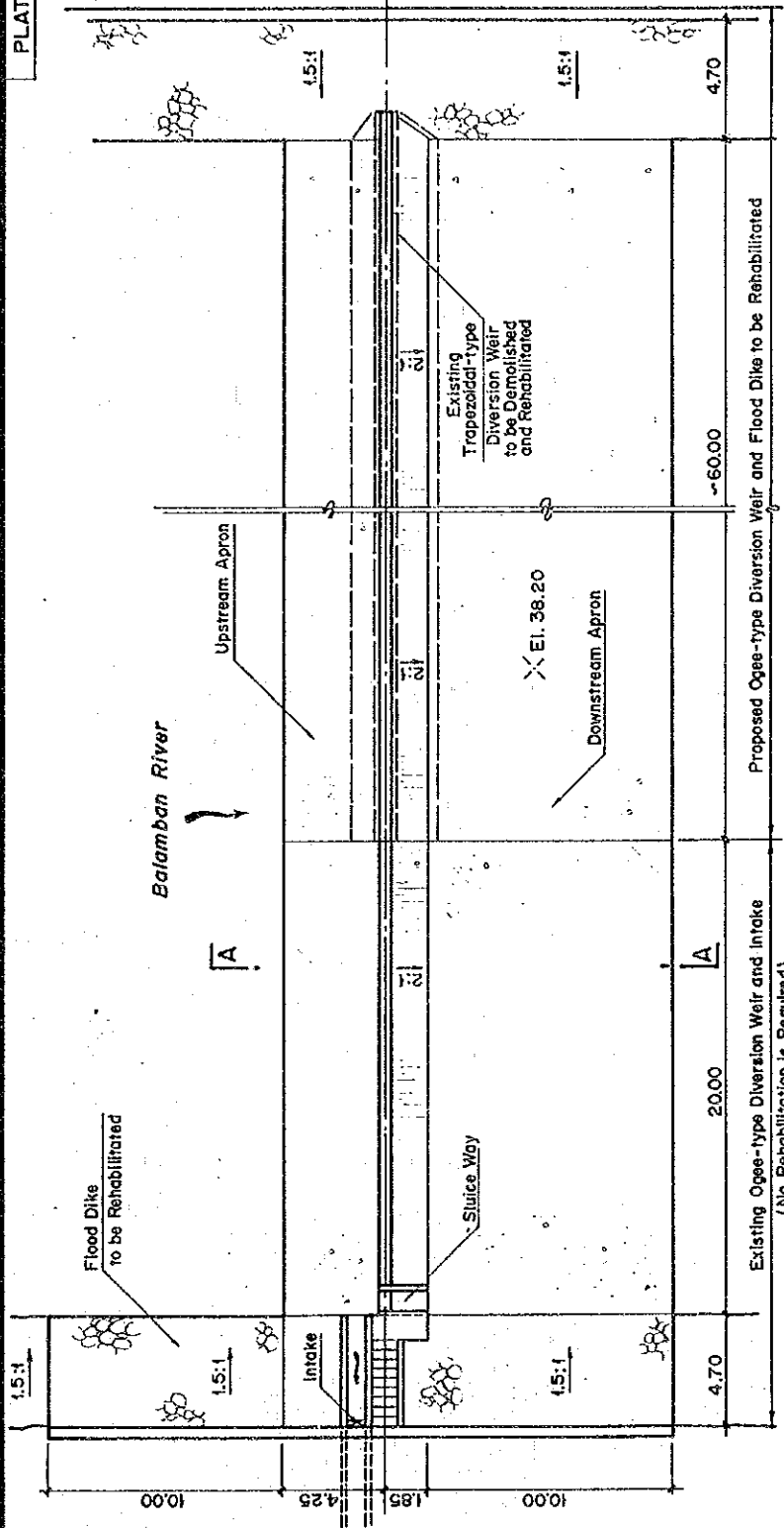
LEGEND

- River
- Road
- Existing Diversion Weir
- Existing Main Canal
- Proposed Lateral
- Existing Structure
- Limit of Designed Irrigable Area

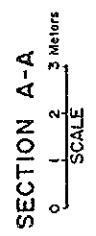
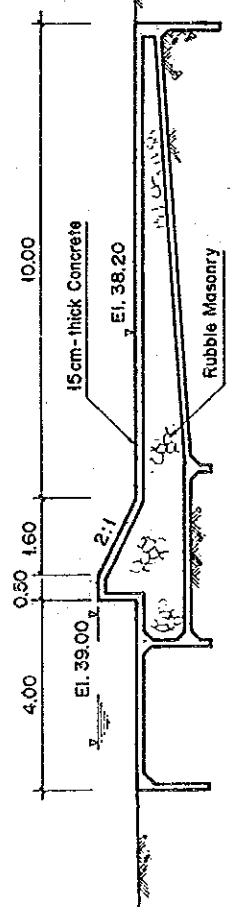
Designed Irrigable Area  
 Wet Season : 51 ha  
 Dry Season : 51 ha

MASTER PLAN STUDY ON SMALL SCALE IRRIGATION DEVELOPMENT PROJECT  
**TAG-AMAKAN CIS (Cebu Province), GENERAL LAYOUT**

PLATE NO.



**CROSS-SECTION OF EXISTING TRAPEZOIDAL-TYPE DIVERSION WEIR**  
(About 60 Meters)  
**To Be Demolished and Rehabilitated**



MASTER PLAN STUDY ON SMALL SCALE IRRIGATION DEVELOPMENT PROJECT  
**TAG-AMAKAN CIS (Cebu Province), DIVERSION WEIR**  
Japan International Cooperation Agency      October , 1991

## ANNEX G-2 (8) MACUPA CIS (448ha)

### Background

- 8.01 Macupa CIS having a potential irrigable area of 448 ha is located in Municipality of Leyte, Leyte Province (See the attached General Layout). The irrigation facilities were constructed in 1979. After the diversion dam was totally damaged by a typhoon in 1988, the irrigation system was changed to be non-functional and hence, abandoned. The service area was completely turned to rainfed condition.
- 8.02 The feasibility study for a complete rehabilitation works was undertaken and completed in 1989 by NIA. The detailed designs was also finished in 1990, and the project is ready for implementation.

### The Project Area

#### 8.03 Natural Conditions

The project area is located in the alluvial plain with average land slope of 0.17%. Soil type of irrigation area is clay loam. The climate of the project area is Type-II which is characterized by no dry season with very pronounced maximum rain period from September to December. The mean annual rainfall is 2,210 mm, and average monthly rainfall is shown below :

(Unit : mm)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
125	90	61	80	134	169	336	240	351	241	239	144	2,210

- 8.04 Water source of the Macupa CIS is the Belen river which has considerable supply of water throughout a year. The catchment area of the Belen river is 5.5 km<sup>2</sup> at the diversion dam site, and monthly river discharge at this site is shown below:

(Unit : l/s)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave
2,310	1,820	1,570	1,540	1,490	1,650	1,980	1,710	1,940	2,530	2,410	2,110	1,922

#### 8.05 Agriculture

The total number of farm households in the Macupa CIS is 380, comprising 2,014 in population. Due to the damage of weir, there is no paddy field under irrigated condition, therefore rainfed paddy cultivation is prevailing in the Macupa CIS area at present. HYV of IR 66, 70 and 74 are commonly cultivated by transplanting method. The wet season paddy is planted in May to June and harvested in October to November. The dry season paddy is planted in November and harvested in March. Present cropping intensity is calculated at 120 percent. Average unit yield of rainfed paddy is estimated at 3.2 ton/ha in wet season and 2.6 ton/ha in dry season. The total production of paddy is estimated at about 1,668 tons per annum. Average farm size in the Macupa CIS is 1.18 ha per a farm household. The present farm economy is examined for a farmer with the average farm size as follows:

<u>Gross farm income</u>	
Annual crop production (ton)	4.40
Farmgate price (₱/ton)	4,500
Gross income (₱)	19,800
Production cost (₱)	9,194
Net farm income (₱)	10,606

Major constraints for agricultural development in the Macupa CIS area are as follows:

- 1) Lack of funds for farm inputs,
- 2) High transportation cost of farm inputs/outputs,
- 3) High hired labour charge,
- 4) Unstable paddy production due to the damage of weir, and
- 5) Insufficient extension services.

#### 8.06 Existing Irrigation and Drainage System

All irrigation facilities are totally damaged and require complete rehabilitation works. The deteriorated irrigation canals should be entirely rehabilitated. Since natural streams in the project area are used as drainage courses, no drainage canal is constructed.

#### 8.07 Irrigator's Association (IA)

Macupa IA has been organized for the operation and maintenance of the irrigation system. Present members of the IA are 187 farmers, and about 60 percent of the member is active. The tenurial status of IA's member is as follows:

1) Owner Operator	:	65
2) Part-Owner	:	7
3) Share Tenant	:	115
Total	:	187

The farmers' petition endorsed by the local government units has already been submitted to NIA.

### Irrigation Development Plan

#### 8.08 Irrigation Water Requirements and Water Balance

Proposed cropping pattern is a double cropping of paddy with 200% intensity. Based on this cropping pattern, diversion water requirements are estimated on a monthly basis as follow:

(Unit : l/sec/ha)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.93	1.11	0.21	-	0	0.75	0.38	0.59	0	0	0.94	0.08

8.09 In order to check the adequacy of designed irrigable area, a water balance between the river discharge and estimated diversion water requirements is made on a monthly basis as follow:

Month	Sadyaya River Discharge (MCM)	Diversion Water Requirement (MCM)	Balance (MCM)
Jan	3.050	0.148	+2.902
Feb	2.510	0.097	+2.413
Mar	2.590	0.030	+2.560
Apr	2.330	0	+2.330
May	2.220	0	+2.220
Jun	2.280	0.045	+2.235
Jul	2.810	0.188	+2.622
Aug	2.910	0.195	+2.715
Sep	3.130	0.162	+2.518
Oct	3.530	0	+3.530
Nov	2.980	0	+2.980
Dec	2.990	0.016	+2.974

As a result of the water balance study, the Belen river discharge is judged adequate to irrigate the designed irrigable area of 448 ha in both wet and dry seasons.

### 8.10 Rehabilitation Plan

All existing irrigation facilities will be completely rehabilitated for the restoration of irrigation area and achievement of the proper water distribution. The major features of the facilities are summarized below:

- 1) Diversion Dam(See the attached design drawing)
  - Type of Weir : Ogee, Rubble Masonry surfaced by Concrete
  - Length of Weir : 60 m
  - Height of Weir : 1.0 m
  - Intake Discharge : 0.859 cms
- 2) Diversion Canal
  - Length : 865 m
  - Structures : 3 nos.
- 3) Main Canal
  - Length : 2,135 m
  - Structures : 9 nos.
- 4) Lateral Canal
  - Length : 7,680 m
  - Structures : 31 nos.
- 5) Farm Ditches-Length : 24,510 m
- 6) Access Road-Length : 600 m

### 8.11 Project Cost

The project costs for the above rehabilitation works are estimated below:

Items	Cost (₱1,000)
1) Diversion Dam	4,503
2) Main and Lateral Canals	1,717.5
3) On-farm Facilities	389.6
4) Road System	277
5) Project Facilities	125
Total Direct Cost	7,012.1
6) ROW	134.4
7) Survey Works	35.0
5) G.E.S.A.(12% of Direct Cost)	841.5
6) Contingency	20.4
Total	8,043.4

## Project Justification

### 8.12 Economic Internal Rate of Return

EIRR is calculated from the following economic benefits and costs :

<u>Annual Incremental Benefits (₱1,000 )</u>	
-Net value under without project condition	6,242
-Net value under with project condition	10,623
-Incremental benefit	4,381
<u>Economic Costs (₱1,000 )</u>	
-Total project cost	6,435
-Annual O & M cost	129
-Total cost	6,564

The EIRR of Macupa CIS is estimated at 40 %.

### 8.13 Farm Budget Analysis

Farm budget analysis is made in order to assess the capacity to pay the amortization fee for the chargeable cost of the rehabilitation works and the operation and maintenance fee required. The farm budget is examined for a farm household with the average farm size as follows:

Items	Without Project(1.18 ha)	With Project(1.18 ha)
Farm income (₱)	19,800	33,984
Production cost (₱)	9,194	18,070
(Amortization fee (₱))	0	332
(Annual O&M fee (₱))	0	414
Net reserve (₱)	10,606	15,914

### 8.14 Socio-economic Impacts

Beneficial effect of the project is an improvement of the living standard of the community. No adverse effect is predicted.

### 8.15 Peace and Order Assessment

The community is very peaceful and orderly. No sign of insurgency is observed.

## **Conclusions and Recommendations**

- 8.16 In case that the intake structure is totally damaged, all irrigation facilities are also deteriorated due to the absence of irrigation. This means that the intake structure should be rehabilitated immediately to prevent the remaining irrigation facilities from deterioration.
- 8.17 Flood analysis is one of the most important studies for the design of diversion dam. However, the design works were carried out based on the preliminary flood analysis, since the available data for the flood analysis was very limited. The flood protection works and capacity of spillway should be reviewed through the further studies on probable flood discharge and back water analysis.



**PRE-FEASIBILITY SUMMARY DATA (8/10)**

**SUB-PROJECT: MACUPA CIS**

**PROVINCE: NORTHERN LEYTE**

**GENERAL**

Name of Sub-project: Proposed Service Area:	MACUPA CIS 448 ha
Region:	VIII
Province:	Northern Leyte
Municipality:	Leyte
Type of SSIDP:	Alluvial Plain
Availability of F/S report:	Yes prepared in 1989
Necessity of Rehabilitation:	Yes constructed in 1979
Recent Rehabilitation:	No
Funding Source:	CARP - IC
Availability of topo-map(1/4,000):	Yes prepared in 1990
engineering designs:	Yes prepared in 1990

**EXISTING IRRIGATION/DRAINAGE FACILITIES**

Diversion Dam:	Yes Totally damaged
Diversion Channel:	No
Main/Lateral Canal:	Yes Totally damaged
Field Ditches:	No
Project/Farm Drain:	No
Access Road:	No
Service Road:	No
Flood Protection Dike:	No
Project Building:	No
Other Facilities:	No
Pumps:	
Siphon:	
Aqueduct:	
Bridge:	
Type of Diversion Dam:	Ogee
Location of main/lateral canal:	No

**SOCIO-ECONOMIC DATA**

Population:	2,014
Nos. of Household:	380
Average Size of Household:	5.3
Nos. of Farm Household:	380
Nos. of Farm Beneficiaries:	380
Area cultivated by owner operators and CARP amortizing owners:	37 %
Area still eligible for re-distribution:	63
Area listed under CARP:	80

**SOIL CONDITION**

Soil Type:	San Manuel Clay Loam
Land Classification:	IR

**METEOROLOGY/HYDROLOGY**

Climatic Type:	II	Annual Rainfall:	2,210 mm
Monthly Rainfall (unit:mm)			
Jan.	125	Feb.	90
Mar.	51	Apr.	80
May	134	Jun.	169
Jul.	336	Aug.	240
Sep.	351	Oct.	241
Nov.	239	Dec.	144
Total	2,210		
Water Sources:	Belen river	Catchment Area:	72 sq.km (at diversion point)
River discharge:			
Jan.	1,820	Feb.	1,576
Mar.	1,540	Apr.	1,490
May	1,650	Jun.	1,930
Jul.	1,710	Aug.	1,940
Sep.	2,330	Oct.	2,410
Nov.	2,110	Dec.	1,922
Ave.			

**IRRIGATION DEVELOPMENT PLAN**

Designated Irrigable Area:	Wet: 448 ha	Dry: 448 ha
Proposed Irrigation Intensity:	200 %	(wet + dry) / wet x 100
% of Area Restoration (CIS):	100 %	(Area restored / Service area) x 100
Diversion Water Requirement:	859 l/sec	
Farm Water Requirement:	0.36 l/sec/ha	
Drainage Water Requirement:	1.68 l/sec/ha	

**PROPOSED PROJECT WORKS**

Drainage Facilities	New Construction	Rehabilitation
Diversion Dam	Yes, L = 60 m H = 1.0 m	
Diversion Channel	Yes 865 m	
Earth Canal	Yes 865 m	
Lined Canal	No	
Main/Lateral Canal	Yes 9,815 m	
Earth Canal	Yes 9,815 m	
Lined Canal	No	
Field Ditches	Yes 24,510 m	
Project/Farm Drains	No	
Service Road	No	
Access Road	Yes 600 m	
Flood Protection Dike	No	
Project Building	Yes IA Building	
Other Facilities	No	

**PROJECT COST**

Chargeable Cost	Non-Chargeable Cost
Diversion Works	
Main/Lateral/Canals	P 4,503,000 Flood Dike
On-farm Facilities	P 1,717,500 Access Road
Others	P 389,600 Overheads
Total	P 402,100 ROW
Per ha	P 7,012,200 Total
Per ha	P 15,650 Per ha
Total P	8,043,400 Per ha P
	17,950

**PROJECT BENEFITS**

Cropped Area without Project (ha)									
	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	Total
Paddy	0	0	0	448	90	538	448	90	538
Corn/Others	0	0	0	0	0	0	0	0	0
Total	0	0	0	448	90	538	448	90	538

**Cropped Area with Project (ha)**

	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	Total
Paddy	448	448	896	0	0	0	448	448	896
Corn/Others	0	0	0	0	0	0	0	0	0
Total	448	448	896	0	0	0	448	448	896

**Annual Net Production Values without Project (Px1,000)**

Production (ton)	Paddy	1,668	Corn/Others	-	Total	1,668
Farmgate Price (P/ton)		6,065		-		6,065
Gross Value(P 000)		10,116		-		10,116
Production Cost(P 000)		3,874		-		3,874
Net Value(P 000)		6,242		-		6,242

**Annual Net Production Values with Project (Px1,000)**

Production (ton)	Paddy	2,867	Corn/Others	-	Total	2,867
Farmgate Price (P/ton)		6,065		-		6,065
Gross Value P x 1,000		17,388		-		17,388
Production Cost		6,765		-		6,765
Net Value		10,623		-		10,623

**PROJECT JUSTIFICATION**

Total Economic Cost (P1,000):	
Annual Net Incremental Benefits (P1,000):	P 6,435
Annual O&M Cost (P1,000):	P 4,381
Project Life	P 129
Benefit Build-up Period	50 years
Economic Internal Rate of Return (EIRR)	3 years
	40 %

**FARM ECONOMY**

Farm Size	Nos.	%	Average Farm Size
<1.0	300	79	Annual Net Farm Income:
1.0-2.0	74	19	without Project:
>2.0	6	2	with Project:
Total	380	100	Net Incremental Farm Income:
			P 10,606
			15,914
			5,308

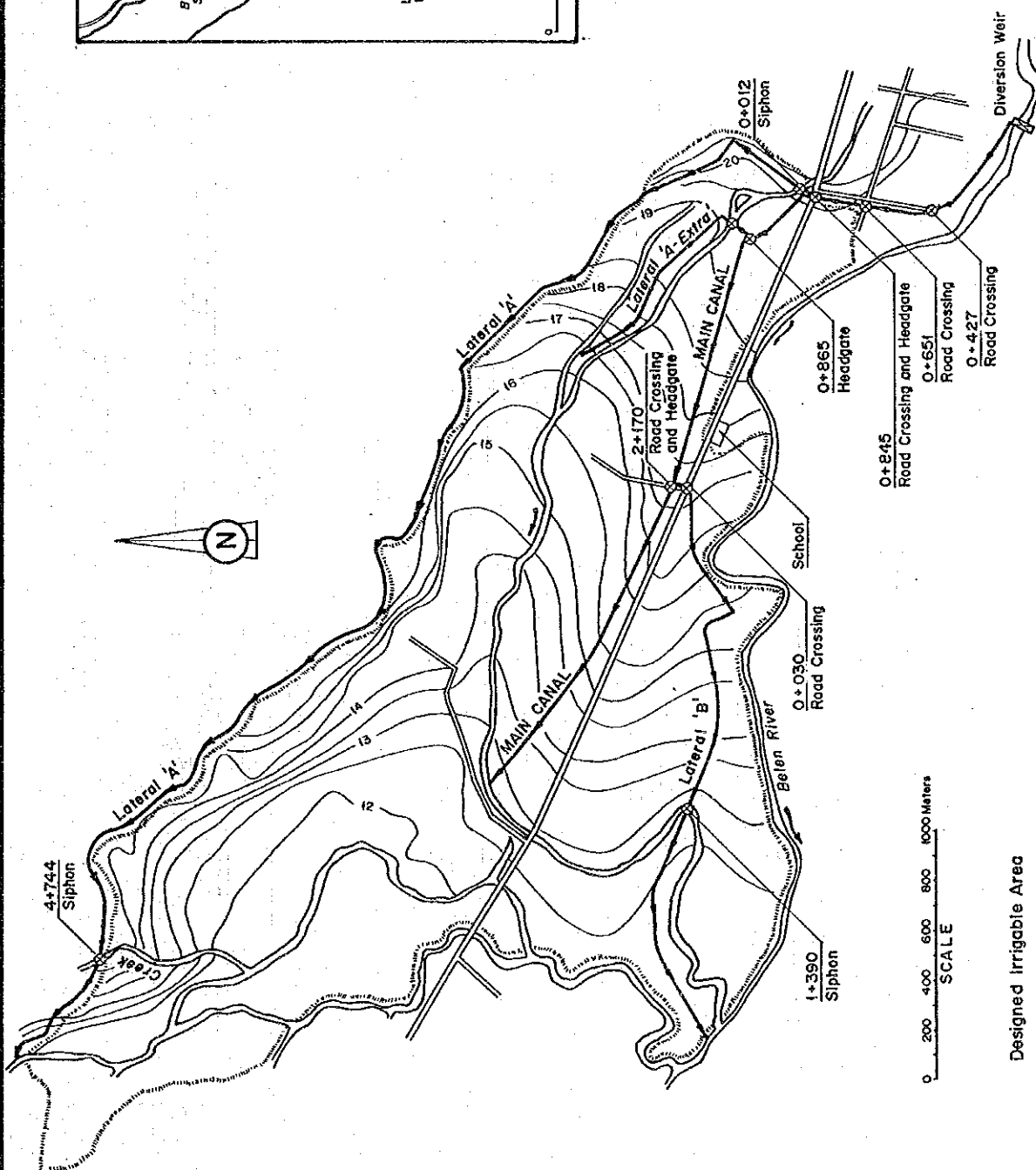
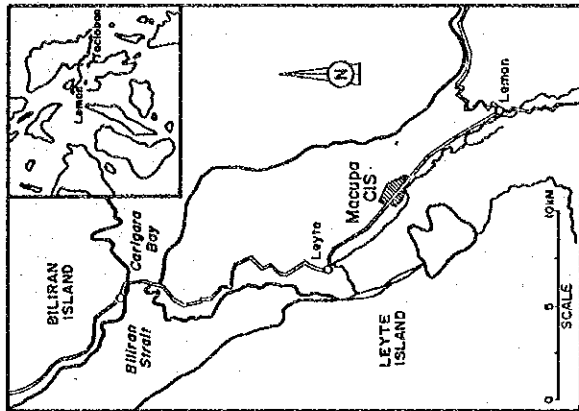
**STATUS OF IA**

IA organized:	Yes
Name of IA:	Macupa
Date registered:	Sept. 6, 1978
Nos. of IA Members:	187
IA Loan (x P1,000):	262

**ENVIRONMENTAL ISSUES**

Water pollution:	little
Deforestation:	little
Soil erosion:	fair
Sedimentation:	fair
Schistosomiasis:	no

PLATE NO.



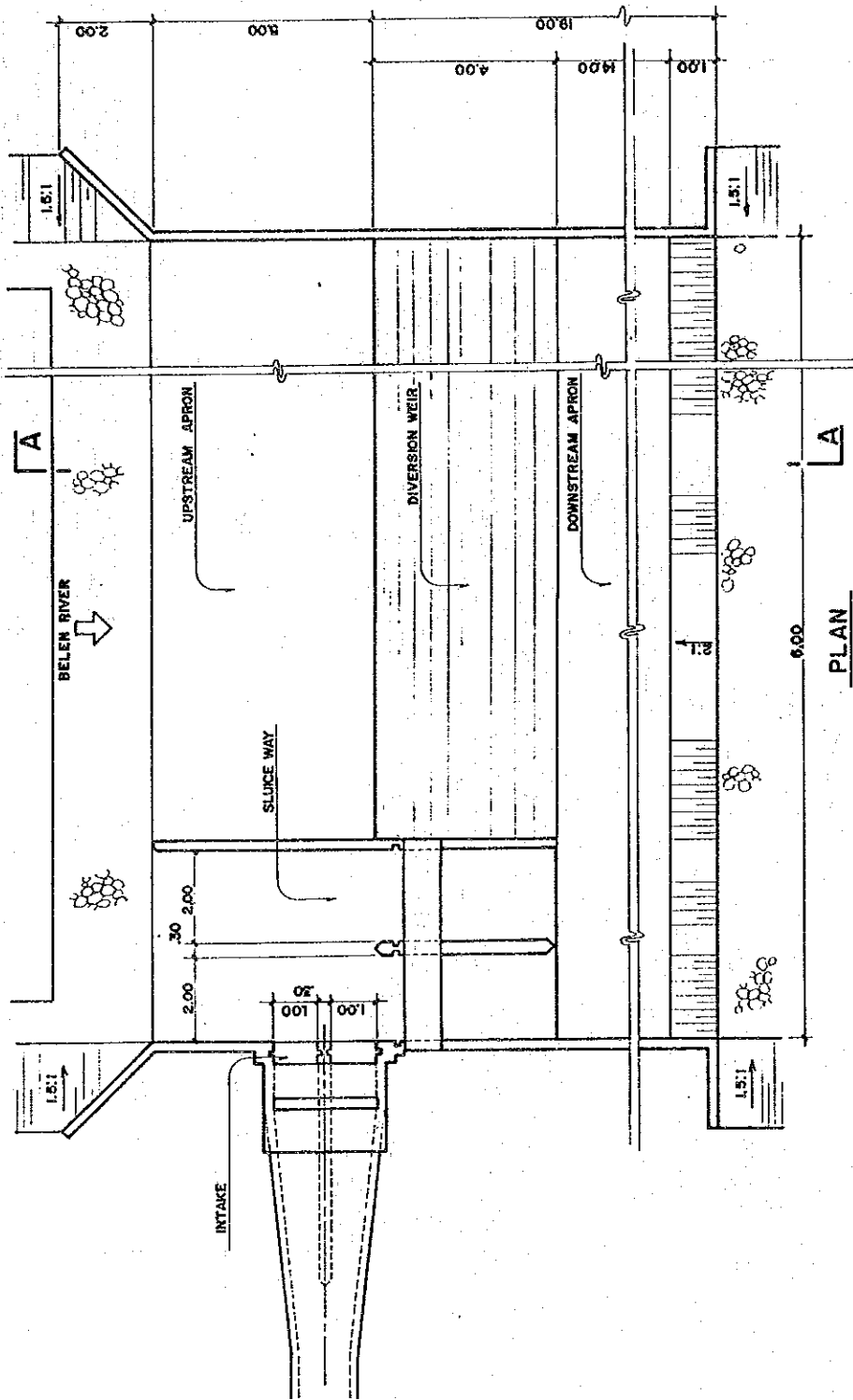
LEGEND

- River
- Road
- Existing Diversion Weir
- Existing Main Canal/Lateral
- Existing Structure
- Limit of Designed Irrigable Area

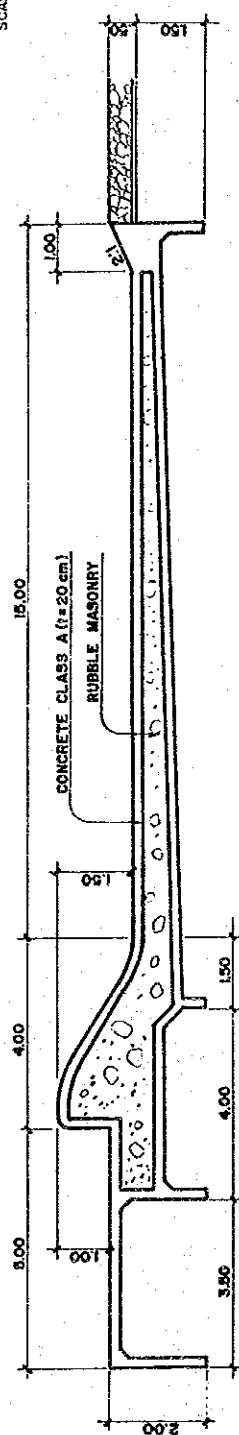
Designed Irrigable Area  
 Wet Season : 448 ha  
 Dry Season : 448 ha

**MASTER PLAN STUDY ON SMALL SCALE IRRIGATION DEVELOPMENT PROJECT**  
**MACUPA CIS (Leyte Province), GENERAL LAYOUT**  
 Japan International Cooperation Agency August , 1991

PLATE NO.



PLAN



SECTION A-A

MASTER PLAN STUDY ON SMALL SCALE IRRIGATION DEVELOPMENT PROJECT

MACUPA CIS (Leyte Province) DIVERSION WEIR

Japan International Cooperation Agency

October , 1991

## ANNEX G-2 (9) CARAY-CARAY CIS (130ha)

### **Background**

- 9.01 Caray-Caray CIS having a potential irrigable area of 130 ha is located in Municipality of Naval, Biliran Island of Leyte Province (See the attached General Layout). Construction of the system was undertaken in 1974 as a tie-up project between NIA and FSDC. NIA and FSDC provided technical and financial assistance to the farmers in the project area.
- 9.02 The irrigation area of the system is located on both banks of the Caray-Caray river which is a water source for the system. Two intake structures were constructed for each service area. However, the river bed at the intake sites was scoured by several seasonal floods and eventually damaged. Temporary brush dams were constructed for each intake site to raise the water surface elevation and divert the water. However, since there are no intake structures, diversion of the water is not controlled. To solve this problem, permanent diversion dam and intake structure are proposed to be constructed at the upper site integrating both brush dams.

### **The Project Area**

9.03 **Natural Conditions**

The project area is located in the flat area of valley with an average land slope of 0.36%. Soil type of irrigation area is clay loam. The climate of the project area is Type-II which is characterized by no dry season with very pronounced maximum rain period from September to December. The mean annual rainfall is 2,210 mm, and average monthly rainfall is shown below :

(Unit : mm)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
125	90	61	80	134	169	336	240	351	241	239	144	2,210

- 9.04 The water source of the project is the Caray-Caray river which is abundant in water throughout a year. The catchment area of the Caray-Caray river is 42 km<sup>2</sup> at the proposed diversion dam site, and monthly river discharge at this site is shown below:

(Unit : l/s)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave
2,040	1,620	1,390	1,320	1,320	1,460	1,770	1,510	1,720	2,150	2,140	1,870	1,693

#### 9.05 Agriculture

The total number of farm households in the Caray-Caray CIS is 177, comprising 867 in population. Paddy cultivation is prevailing in the Caray-Caray CIS area. Out of 130 ha, 55 ha is presently irrigated both in the wet and dry seasons. Remaining 75 ha is under irrigated condition. HYV of IR 60, 64, 72 and 74 are commonly cultivated by transplanting method. The wet season paddy is planted in July to August and harvested in November to December. The dry season paddy is planted in December to January and harvested in April to May. Present cropping intensity is calculated at 142 percent. Average unit yield of irrigated paddy is estimated at 3.6 ton/ha in wet season and 3.6 ton/ha in dry season. Average unit yield of rainfed paddy is estimated at 2.7 ton/ha in wet season. The total production of paddy is estimated at about 599 tons per annum. Average farm size in the Caray-Caray CIS is 0.73 ha per a farm household. The present farm economy is examined for a farm household with the average farm size as follows:

<u>Gross farm income</u>	
Annual crop production (ton)	3.37
Farmgate price (₱/ton)	4,500
Gross Value (₱)	15,147
Production cost (₱)	8,088
Net farm income (₱)	7,059

Major constraints for agricultural development in the Caray-Caray CIS area are as follows:

- 1) Lack of funds for farm inputs,
- 2) High transportation cost of farm inputs/outputs, and
- 3) Insufficient extension services.

#### 9.06 Existing Irrigation and Drainage System

The irrigation facilities in the system are as follows:

1) Diversion Works(Upstream)

- Type of Weir : Brush dam
- Length of Weir : About 30 m
- Type of Intake : Concrete flume without control gate

2) Diversion Works(Downstream)

- Type of Weir : Brush dam
- Length of Weir : About 40 m
- Type of Intake : Concrete flume without control gate

3) Main Canal

- Length : 1,620 m
- Structures : 8 nos.

9.07 Two brush dams are damaged by floods in every year. As the flood water easily flows into a main canal, the canal itself is also damaged by floods. Any drainage canal is not constructed in the area, and natural streams including the Caray-Caray river are utilized as the drainage courses.

#### 9.08 Irrigator's Association (IA)

Caray-Caray CIS had only one IA in the past. At present, it is divided into two IAs, i.e. Caray-Caray Dam I and Caray-Caray Dam II. Present members of the IA are 67 farmers, 33 farmers for Dam I and 34 farmers for Dam II. The tenurial status of IA's member is as follows:

		Dam I	Dam II	Total
1)	Owner Operator	: 12	12	24
2)	Share Tenant	: 21	22	43
	Total	: 33	34	67

The farmers' petition endorsed by the local government units has already been submitted to NIA.

## Irrigation Development Plan

### 9.09 Irrigation Water Requirements and Water Balance

Proposed cropping pattern is a double cropping of paddy with 200% intensity. Based on this cropping pattern, diversion water requirements are estimated on a monthly basis as follow:

(Unit : l/sec/ha)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.87	1.29	0.61	0.96	-	-	-	0.66	0.14	0.06	-	0.15

9.10 In order to check the adequacy of designed irrigable area, a water balance between the river discharge and estimated diversion water requirements is made on a monthly basis as follow:

Month	Sadyaya River Discharge (MCM)	Diversion Water Requirement (MCM)	Balance (MCM)
Jan	3.53	0.30	+3.23
Feb	2.92	0.41	+2.51
Mar	2.99	0.21	+2.78
Apr	2.69	0.32	+2.37
May	2.57	0	+2.57
Jun	2.66	0	+2.66
Jul	3.26	0	+3.26
Aug	3.95	0.23	+3.72
Sep	3.62	0.05	+3.57
Oct	4.09	0.02	+4.07
Nov	3.47	0	+3.47
Dec	3.48	0.05	+3.43

As a result of the water balance study, the Caray-Caray river discharge is judged to be adequate to irrigate the designed irrigable area of 130 ha in both wet and dry seasons.

### 9.11 Rehabilitation Plan

The following rehabilitation works are required for the restoration of irrigation area and achievement of the proper water distribution.

#### 1) Diversion Dam

- Type of Weir : Ogee, Rubble Masonry surfaced by Concrete
- Length of Weir : 20 m

- Height of Weir : 0.8 m
- Intake Discharge : 0.17 cms
- 2) Main Canal
  - Total Length : 2,500 m
  - Structures : 10 nos
- 3) Syphon Structure of Main Canal
  - Length of Barrel : 40 m
  - Diameter of Barrel : 300 mm
- 4) Lateral Canal
  - Length : 800 m
  - Structures : 3 nos.
- 5) Farm Ditches-Length : 3,000 m
- 6) Access Road
  - Length : 1,200 m
  - Structure : One submerged bridge crossing the Caray-Carat river

#### 9.12 Project Cost

The project costs for the above rehabilitation works are estimated below:

Items	Cost (₹1,000)
1) Diversion Dam	1,440
2) Main and Lateral Canals	414
3) On-farm Facilities	180
4) Access Road	239
5) Project Facilities	50
Total Direct Cost	2,323
6) G.E.S.A.(12% of Direct Cost)	278.76
7) Contingency (12% of Direct Cost)	278.76
<b>Total</b>	<b>2,880.52</b>



## Project Justification

### 9.13 Economic Internal Rate of Return

EIRR is calculated from the following economic benefits and costs :

<u>Annual Incremental Benefits (₱1,000 )</u>	
-Net value under without project condition	2,335
-Net value under with project condition	3,624
-Incremental benefit	1,289
<u>Economic Costs (₱1,000 )</u>	
-Total project cost	2,304
-Annual O & M cost	46
-Total cost	2,350

The EIRR of Caray-Caray CIS is estimated at 34 %.

### 9.14 Farm Budget Analysis

Farm budget analysis is made in order to assess the capacity to pay the amortization fee for the chargeable cost of the rehabilitation works and the operation and maintenance fee required. The farm budget is examined for a farm household with the average farm size as follows:

Items	Without Project(0.73 ha)	With Project(0.73ha)
Farm income (₱)	15,147	23,652
Production cost (₱)	8,088	12,832
(Amortization fee (₱))	88	210
(Annual O&M fee (₱))	108	256
Net reserve (₱)	7,059	10,820

### 9.15 Socio-economic Impacts

Economic and social benefits produced by the implementation of the project are foreseen. The implementation of the rehabilitation is expected to contribute to further upliftment of the living standard of the community. No adverse effect is foreseen by the project.

### 9.16 Peace and Order Assessment

Peace and order condition has been well maintained in and around the project area.

### **Conclusions and Recommendations**

- 9.17 Though the Caray-Caray river has enough water source for irrigation development, the water is not utilized effectively. Rehabilitation project of the Caray-Caray CIS is expected to contribute not only to increase of farmers' income but also development of rural natural resources.
- 9.18 The detailed design of the diversion dam should be made through further studies on flood protection works and scouring of river bed at the downstream of the weir. The downstream apron work of the diversion dam should be designed based on the results of more detailed geological investigation.

**PRE-FEASIBILITY SUMMARY DATA (9/10)**      **SUB-PROJECT: CARAY - CARAY CIS**      **PROVINCE: NORTHERN LEYTE**

**GENERAL**

Name of Sub-project: Proposed Service Area:	CARAY - CARAY 130 ha
Region: Province: Municipality:	VIII Northern Leyte Naval
Type of SSIDP:	
Topographic Condition:	Flat area in valley
Availability of F/S reports prepared in 1989	Yes
Necessity of Rehabilitation:	Yes
Recent Rehabilitation	No
Funding Source:	Not arranged yet
Availability of topographic (1/4,000): engineering designs:	Yes prepared in 1990 No

**EXISTING IRRIGATION/DRAINAGE FACILITIES**

Division Dam:	Yes Brush dam (2)
Division Channel:	No
Main/Lateral Canal:	Yes 1.62 km
Field Ditches:	No
Project/Farm Drain:	No
Access Road:	No
Service Road:	No
Flood Protection Dikes:	No
Project Building:	Yes IA Building
Other Facilities:	No
Pumps:	
Siphon:	
Aqueduct:	
Bridge:	
Type of Diversion Dam:	Brush dam
Limbs of main/lateral canal:	No

**SOCIO-ECONOMIC DATA**

Population:	867	Availability of water supply:	Yes
Nos. of Household:	117	power supply:	Yes
Average Size of Household:	4.9	rice mill:	Yes
Nos. of Farm Household:	117	storage facilities:	No
Nos. of Farm Beneficiaries:	177		
Agrarian Reform:			
Area cultivated by owner operators and CARP amortizing owners:		%	
Area still eligible for re-distribution:	35		
Area listed under CARP:	65		
	85		

**SOIL CONDITION**

Soil Type:	Louisiana Clay
Land Classification:	IR

**METEOROLOGY/HYDROLOGY**

Climatic Type:	II	Annual Rainfall:	2,210 mm
Monthly Rainfall (unit:mm)			
Jan.	125	Feb.	90
Mar.	61	Apr.	80
May	134	Jun.	169
Jul.	336	Aug.	240
Sep.	351	Oct.	249
Nov.	144	Dec.	210
Total	2,210		
Water Sources:	Caray - Caray river	Catchment Area:	42 sq.km (at diversion point)
River discharge:			
Jan.	2,040	Feb.	1,620
Mar.	1,390	Apr.	1,320
May	1,320	Jun.	1,450
Jul.	1,770	Aug.	1,510
Sep.	1,720	Oct.	2,150
Nov.	2,140	Dec.	1,870
Ave.	1,693		

**IRRIGATION DEVELOPMENT PLAN**

Designed Irrigable Area:	Wet: 130 ha - Dry: 130 ha
Proposed Irrigation Intensity:	200 % (wet + dry) / wet x 100
% of Area Restoration (CIS):	58 % (Area restored / Service area) x 100
Diversion Water Requirement:	170 l/sec
Farm Water Requirement:	0.64 l/sec/ha
Drainage Water Requirement:	- l/sec/ha

**PROPOSED PROJECT WORKS**

Irrigation/Drainage Facilities	New Construction	Rehabilitation
Diversion Dam	Yes, Ogee, L = 20 m H = 0.8 m	No
Diversion Channel	No	Yes 3.3 km
Earth Canal	Yes	Yes 3.0 km
Lined Canal	No	No
Main/Lateral Canal	Yes	No
Earth Canal	No	Yes 1.2 km
Lined Canal	No	No
Field Ditches	Yes	Yes Bunkhouse
Project/Farm Drains	No	No
Service Road	Yes	No
Access Road	No	No
Flood Protection Dike	No	No
Project Building	Yes	Yes
Other Facilities	Yes	Yes

**PROJECT COST**

Chargeable Cost	Non-Chargeable Cost
Diversion Works	P 1,440,000
Main/Lateral/Canals	P 414,000
On-farm Facilities	P 180,000
Others	P 50,000
Total	P 2,084,000
Per ha	16,030
Total Project Cost (Financial):	Total P 2,880,520 Per ha P 22,160

**PROJECT BENEFITS**

Cropped Area without Project (ha)	Irrigated		Rainfed		Total
	Wet	Dry	Wet	Dry	
Paddy	55	55	110	75	130
Com/Others	0	0	0	0	0
Total	55	55	110	75	130

**Cropped Area with Project (ha)**

Cropped Area with Project (ha)	Irrigated		Rainfed		Total
	Wet	Dry	Wet	Dry	
Paddy	130	130	260	0	130
Com/Others	0	0	0	0	0
Total	130	130	260	0	130

**Annual Net Production Values without Project (P x 1,000)**

Production (ton)	Paddy	599	Com/Others	Total
Farmgate Price (P/ton)		6,065		599
Gross Value (P '000)		3,633		3,633
Production Cost (P '000)		1,298		1,298
Net Value (P '000)		2,335		2,335

**Annual Net Production Values with Project (P x 1,000)**

Production (ton)	Paddy	936	Com/Others	Total
Farmgate Price (P/ton)		6,065		936
Gross Value P x 1,000		5,676		6,065
Production Cost		2,052		5,676
Net Value		3,624		3,624

**PROJECT JUSTIFICATION**

Total Economic Cost (P1,000):	P 2,304
Annual Net Incremental Benefits (P1,000):	P 1,289
Annual O&M Cost (P1,000):	P 46
Project Life	50 years
Benefit Build-up Period	3 years
Economic Internal Rate of Return (EIRR)	34 %

**FARM ECONOMY**

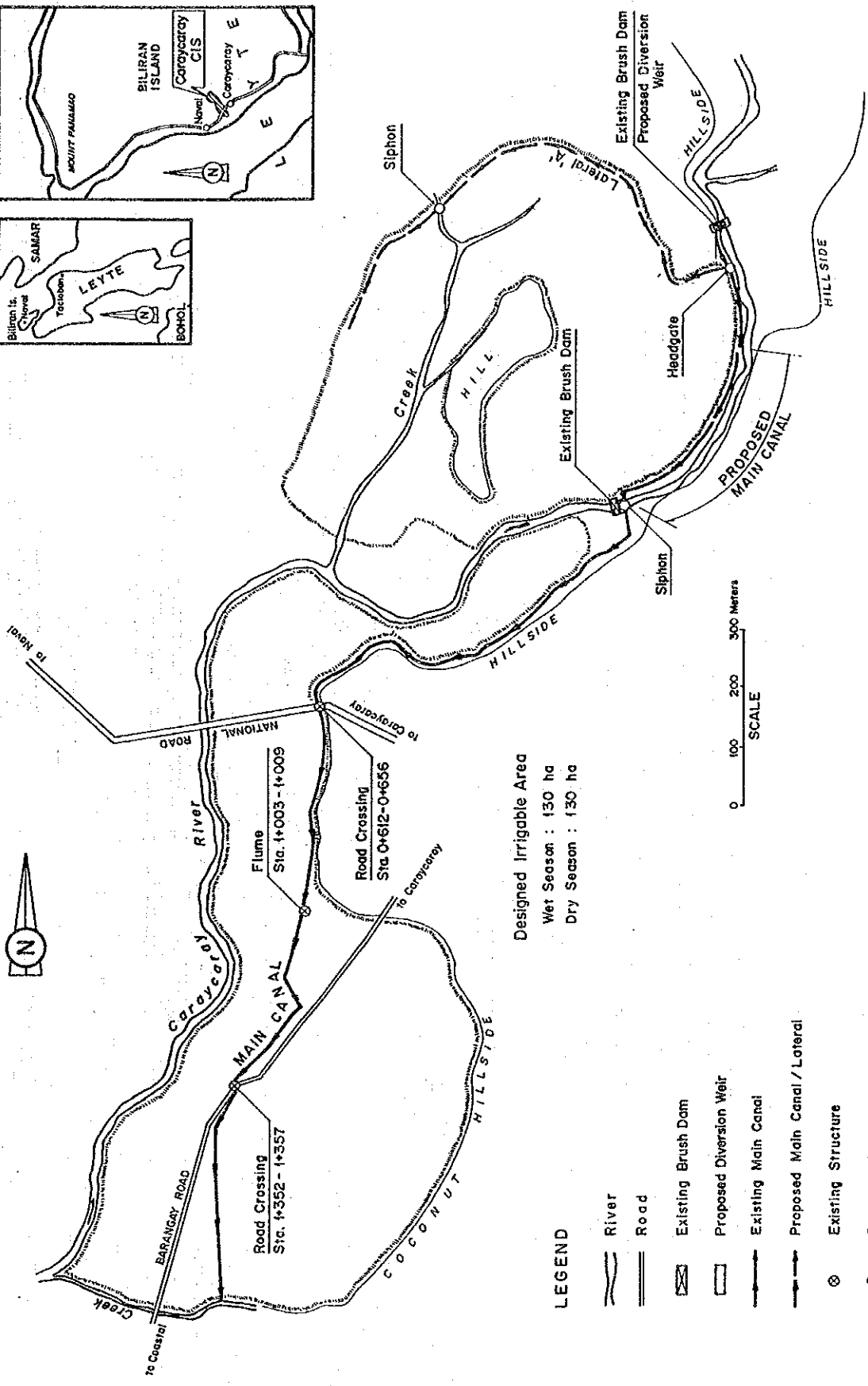
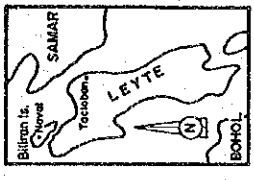
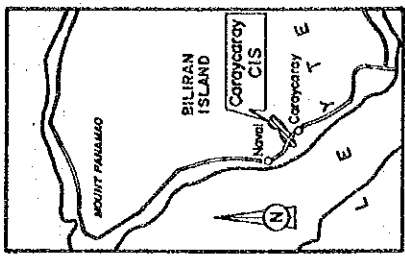
Farm Size	Nos.	%	Average Farm Size
<1.0	103	58	0.73 ha
1.0-2.0	69	39	
>2.0	5	3	
Total	177	100	
Annual Net Farm Income:			P 7,059
without Project:			P 10,820
with Project:			P 3,761

**STATUS OF IA**

IA organized:	Yes	Carry-Carry Dam I & II	Water pollution:	little
Name of IA:			Deforestation:	serious
Date registered:	33 & 34		Soil erosion:	little
Nos. of IA Members:	120 (Dam II)		Sedimentation:	serious
IA Loan (x P1,000):			Schistosomiasis:	no

**ENVIRONMENTAL ISSUES**

PLATE NO.



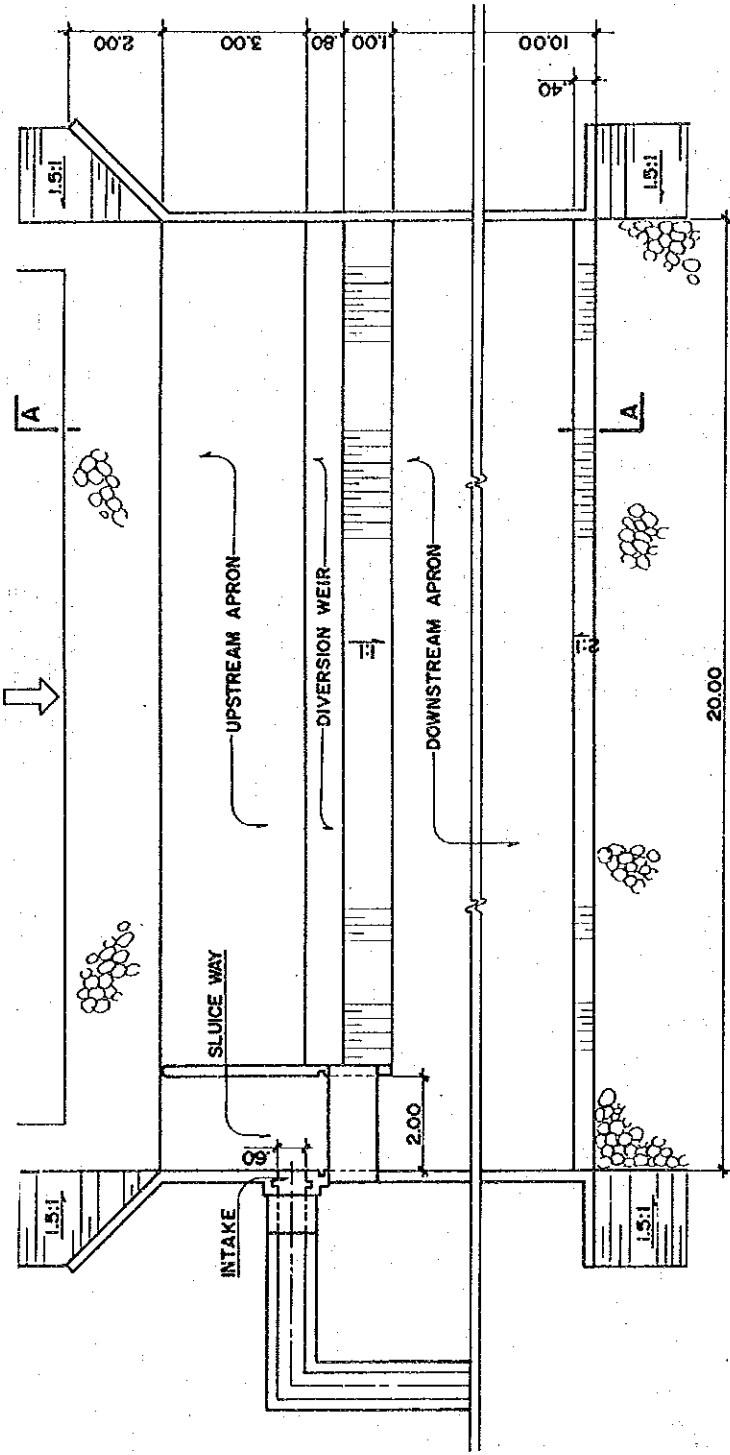
Designed Irrigable Area  
 Wet Season : 130 ha  
 Dry Season : 130 ha

- LEGEND**
- River
  - Road
  - Existing Brush Dam
  - Proposed Diversion Weir
  - Existing Main Canal
  - Proposed Main Canal / Lateral
  - Existing Structure
  - Proposed Structure
  - Limit of Designed Irrigable Area

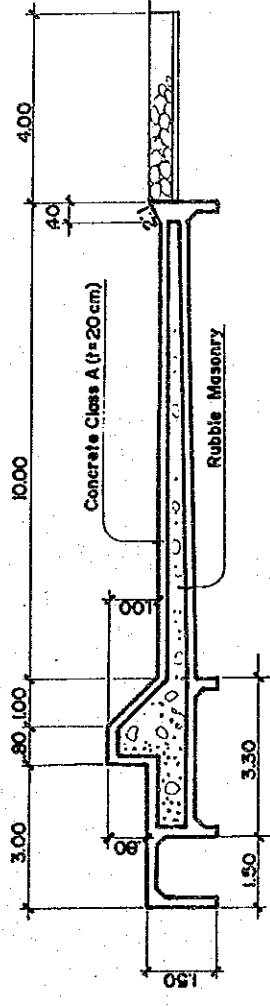
**MASTER PLAN STUDY ON SMALL SCALE IRRIGATION DEVELOPMENT PROJECT**  
**CARAYCARAY CIS (Leyte Province), GENERAL LAYOUT**  
 Japan International Cooperation Agency August, 1991

PLATE NO.

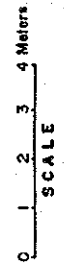
CARAYCARAY RIVER



PLAN



SECTION A-A



MASTER PLAN STUDY ON SMALL SCALE IRRIGATION DEVELOPMENT PROJECT  
**CARAYCARAY CIS (Leyte Province), DIVERSION WEIR**  
 Japan International Cooperation Agency      October , 1991

## ANNEX G-II (10) MARAGONDONG CIP (320ha)

### Background

10.01 Maragondong CIP having a potential irrigable area of 320 ha is located in Municipality of Dagami, which is about 32 km away from Tacloban city (See the attached General Layout). In 1984, the farmers of this community organized an irrigator's association to endorse a proposed irrigation project in their community to the NIA. Feasibility study was undertaken and the project was taken up in the Communal Irrigation Development Project of NIA. Unfortunately the implementation of the project was deferred and the IA became inactive. However, lately, the IA turns active in the hope that their project will be implemented.

10.02 Presently, the feasibility study is made, including an additional area. Designs and cost estimates are being undertaken at regional level.

### The Project Area

#### 10.03 Natural Conditions

The topography of the potential irrigable area is alluvial plain. The average slope of the project area is about 0.32 percent and the soil is clay loam. The climate of the project area is Type-II which is characterized by no dry season with very pronounced maximum rain period from October to January. The mean annual rainfall is 2,495 mm, and average monthly rainfall is shown below:

(Unit : mm)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
310	200	136	138	117	184	184	153	178	225	327	343	2,495

10.04 The Sawahon river is the water source for the proposed project. The catchment area of the river is about 22.5 km<sup>2</sup> at the proposed intake site, and monthly river discharge at this site is shown below :

(Unit : qms)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave
1.80	1.38	1.19	1.14	1.14	1.24	1.41	1.32	1.49	1.72	1.81	1.57	1.43

#### 10.05 Agriculture

The total number of farm households in the Caray-Caray CIS is 206, comprising 1,072 in population. Paddy cultivation is prevailing in the Maragondong CIP area. HYV of IR 42 and 66 are commonly cultivated by transplanting method. The wet season paddy is planted in May to June and harvested in October to November. Present cropping intensity is calculated at 103 percent. Average unit yield of paddy is estimated at 2.7 ton/ha in wet season and 1.0 ton/ha in dry season. The total production of paddy is estimated at about 874 tons per annum. Average farm size in the Maragondong CIP is 1.55 ha per a farm household. The present farm economy is examined for a farm household with the average farm size as follows:

##### Gross farm income

Annual crop production (ton)	4.24
Farmgate price (₱/ton)	4,500
Gross Value (₱)	19,058
Production cost (₱)	10,000
Net farm income (₱)	9,058

Major constraints of agricultural development in the Maragondong CIP area are as follows:

- 1) Lack of funds for farm inputs,
- 2) High transportation cost of farm inputs/outputs, and
- 3) Insufficient extension services.

#### 10.06 Irrigator's Association (IA)

Maragondong Irrigator's Association was established in 1984. The IA has 67 members, and all of the members are very active. The tenorial status of the IA's members is as follows:

1) Owner Operator	:	27
2) Leaseholder	:	9
3) Share Tenant	:	31
Total	:	67

The farmers' petition endorsed by the local government units has already been submitted to NIA.

## Irrigation Development Plan

### 10.07 Irrigation Water Requirements and Water Balance

Proposed cropping pattern is a double cropping of paddy with 200% intensity. Based on this cropping pattern, diversion water requirements are estimated on a monthly basis as follow:

(Unit : l/sec/ha)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.69	0.50	0.14	-	-	0.21	0.88	0.91	0.78	0	0	0.07

10.08 In order to check the adequacy of designed irrigable area, a water balance between the river discharge and estimated diversion water requirements is made on a monthly basis as follow:

Month	Sadyaya River Discharge (MCM)	Diversion Water Requirement (MCM)	Balance (MCM)
Jan	3.050	0.148	+2.902
Feb	2.510	0.097	+2.313
Mar	2.590	0.030	+2.560
Apr	2.330	0	+2.330
May	2.220	0	+2.220
Jun	2.280	0.045	+2.235
Jul	2.810	0.188	+2.622
Aug	2.910	0.195	+2.715
Sep	3.130	0.162	+2.968
Oct	3.530	0	+3.530
Nov	2.980	0	+2.980
Dec	2.990	0.016	+2.974

As a result of the water balance study, the Sawahon river discharge is judged to be adequate to irrigate the designed irrigable area of 320 ha in both wet and dry seasons.

### 10.09 Project Works

The project will provide perennial irrigation water through the construction of the following irrigation facilities:

1) Diversion Dam(See design drawing)

- Type of Weir : Ogee,Rubble Masonry surfaced by Concrete
- Length of weir : 10 m
- Height of Weir : 1.0 m
- Intake Discharge : 0.64 cms



- 2) Diversion Canal
  - Length : 700 m
  - Structure : 1 no
- 3) Main Canal
  - Length : 6,800 m
  - Structures : 19 nos
- 4) Lateral canal
  - Length : 2,400 m
  - Structures : 9 no
- 5) Farm Ditches-Length : 11,300 m

10.10 There are two major rivers and several creeks in the project area. These natural streams are utilized as the drainage canals for the project. No drainage canal is proposed to be constructed, because of this topographic condition and a constraint of ROW.

#### 10.11 Project Cost

The project costs for the above project works are estimated below:

Items	Cost (₹1,000)
1) Diversion Dam	1,280
2) Main and Lateral Canals	2,856
3) On-farm Facilities	678
4) Others(Project Office)	125
Total Direct Cost	4,939
5) ROW	15
6) G.E.S.A.(12% of Direct Cost)	592.68
7) Contingency (12% of Direct Cost)	592.68
<b>Total</b>	<b>6,139.36</b>

#### Project Justification

##### 10.12 Economic Internal Rate of Return

EIRR is calculated from the following economic benefits and costs :

##### Annual Incremental Benefits (₹1,000 )

-Net value under without project condition	3,408
-Net value under with project condition	7,604
-Incremental benefit	4,196

Economic Costs (₱1,000 )

-Total project cost	4,815
-Annual O & M cost	96
-Total cost	4,911

The EIRR of Maragondong CIP is estimated at 47 %.

10.13 Farm Budget Analysis

Farm budget analysis is made in order to assess the capacity to pay the amortization fee for the chargeable cost of the project and the operation and maintenance fee required. The farm budget is examined for a farm household with the average farm size as follows:

Items	Without Project(1.1 ha)	With Project(1.1 ha)
Farm income (₱)	19,058	44,640
Production cost (₱)	10,000	26,317
(Amortization fee (₱))	0	430
(Annual O&M fee (₱))	0	542
Net reserve (₱)	9,058	18,323

10.14 Socio-economic Impacts

The surrounding areas are endemic with a water-borne disease called schistosomiasis. A properly designed drainage system must be incorporated with the project to inhibit the growth of the host snail. Otherwise, this would adversely affect the community's health and living conditions. Beneficial effect would be an improvement of the living standard of the community due to increased agricultural product and income.

10.15 Peace and Order Assessment

Presently, the locality is quite peaceful. There is no sign or activities of insurgencies. The peace keeping force is very near the place.

## **Conclusions and Recommendations**

10.16 The farmers in the project area are suffering from low farm income and the economic condition of the farmers is at a subsistence level. The implementation of the project is expected to largely contribute to the effective utilization of the endowed land and water resources as well as the improvement of the farmers' living standard.

**PRE-FEASIBILITY SUMMARY DATA (10/10) SUB-PROJECT: MARAGONDONG CIP PROVINCE: NORTHERN LEYTE**

**GENERAL METEOROLOGY/HYDROLOGY PROJECT BENEFITS**

Name of Sub-project:	MARAGONDONG CIS
Proposed Service Area:	320 ha
Region:	VIII
Province:	Northern Leyte
Municipality:	Dagami

Type of SSIDP:	Alluvial Plain
Topographic Condition:	Yes prepared in 1990
Availability of F/S report:	No
Necessity of Rehabilitation:	No
Recent Rehabilitation:	No
Funding Source:	Not arranged yet
Availability of topo-map(1/4,000):	Yes (Partial)
engineering designs:	No

Water Source:	Sawahan river
Catchment Area:	22.5 sq.km (at diversion point)
Annual Rainfall:	2,495 mm

Monthly Rainfall (Taichuan City) (unit:mm)	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,380	1,380	1,190	1,140	1,140	1,240	1,410	1,320	1,490	1,720	1,810	1,570	1,434

Designed Irrigable Area:	Wet: 320 ha	Dry: 320 ha
Proposed Irrigation Intensity:	200 % (wet + dry) / wet x 100	
% of Area Restoration (CIS):	640 / 640	
Diversion Water Requirement:	1.31 l/sec/ha	
Farm Water Requirement:	-	
Drainage Water Requirement:	-	

Diversion Dam:	No
Diversion Channel:	No
Main/Lateral Canal:	No
Field Ditches:	No
Project/Farm Drain:	No
Access Road:	No
Service Road:	No
Flood Protection Dike:	No
Project Building:	No
Other Facilities:	No
Pumps:	No
Siphon:	No
Aqueduct:	No
Bridge:	No

Type of Diversion Dam:	-
Limiting of main/lateral canal:	-

Population:	1,072
Nos. of Household:	206
Average Size of Household:	5.2
Nos. of Farm Household:	206
Nos. of Farm Beneficiaries:	206

Area cultivated by owner operators and CARP amortizing owners:	40
Area still eligible for re-distribution:	60
Area listed under CARP:	100

Area cultivated by owner operators and CARP amortizing owners:	40
Area still eligible for re-distribution:	60
Area listed under CARP:	100

Soil Type:	Palo Clay Loam
Land Classification:	IR

Annual Net Production Values without Protection (Px1,000):	Paddy	874	Com/Others	-	Total	874
Production (ton)	2,048	-	-	-	-	2,048
Farmgate Price (P/ton)	6,065	-	-	-	-	6,065
Gross Value P x 1,000	12,421	-	-	-	-	12,421
Production Cost (P 000)	4,817	-	-	-	-	4,817
Net Value (P 000)	7,604	-	-	-	-	7,604

Annual Net Production Values with Protection (Px1,000):	Paddy	874	Com/Others	-	Total	874
Production (ton)	2,048	-	-	-	-	2,048
Farmgate Price (P/ton)	6,065	-	-	-	-	6,065
Gross Value P x 1,000	12,421	-	-	-	-	12,421
Production Cost (P 000)	4,817	-	-	-	-	4,817
Net Value (P 000)	7,604	-	-	-	-	7,604

Total Economic Cost (P1,000):	P 4,815
Annual Net Incremental Benefits (P1,000):	P 4,196
Annual O&M Cost (P1,000):	P 96
Project Life:	50 years
Benefit Build-up Period:	3 years
Economic Internal Rate of Return (EIRR):	47 %

Farm Size	Nos.	%	Average Farm Size
<1.0	27	13	Annual Net Farm Income:
1.0-2.0	95	46	without Project:
>2.0	84	41	with Project:
Total	206	100	Net Incremental Farm Income:

IA organized:	Yes
Name of IA:	Maragondong
Date registered:	Oct. 1984
Nos. of IA Members:	67
IA Loan (x P1,000):	None

Water pollution:	no
Deforestation:	little
Soil erosion:	little
Sedimentation:	fair
Schistosomiasis:	no

**ENVIRONMENTAL ISSUES**

**STATUS OF IA**

**FARM ECONOMY**

**PROJECT JUSTIFICATION**

**PROPOSED PROJECT WORKS**

**EXISTING IRRIGATION/DRAINAGE FACILITIES**

**SOCIO-ECONOMIC DATA**

**PROJECT COST**

**IRRIGATION DEVELOPMENT PLAN**

**DESIGNED IRRIGABLE AREA**

**MONTHLY RAINFALL**

**WATER SOURCE**

**DESIGNED IRRIGABLE AREA**

**PROPOSED IRRIGATION INTENSITY**

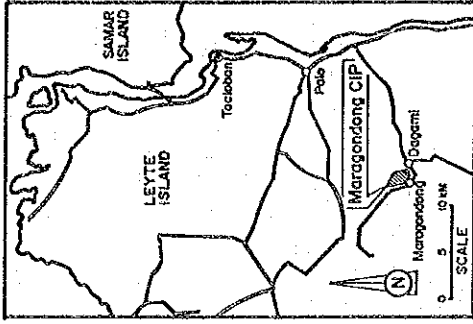
**DESIGNED IRRIGABLE AREA**

**DESIGNED IRRIGABLE AREA**

**DESIGNED IRRIGABLE AREA**

**DESIGNED IRRIGABLE AREA**

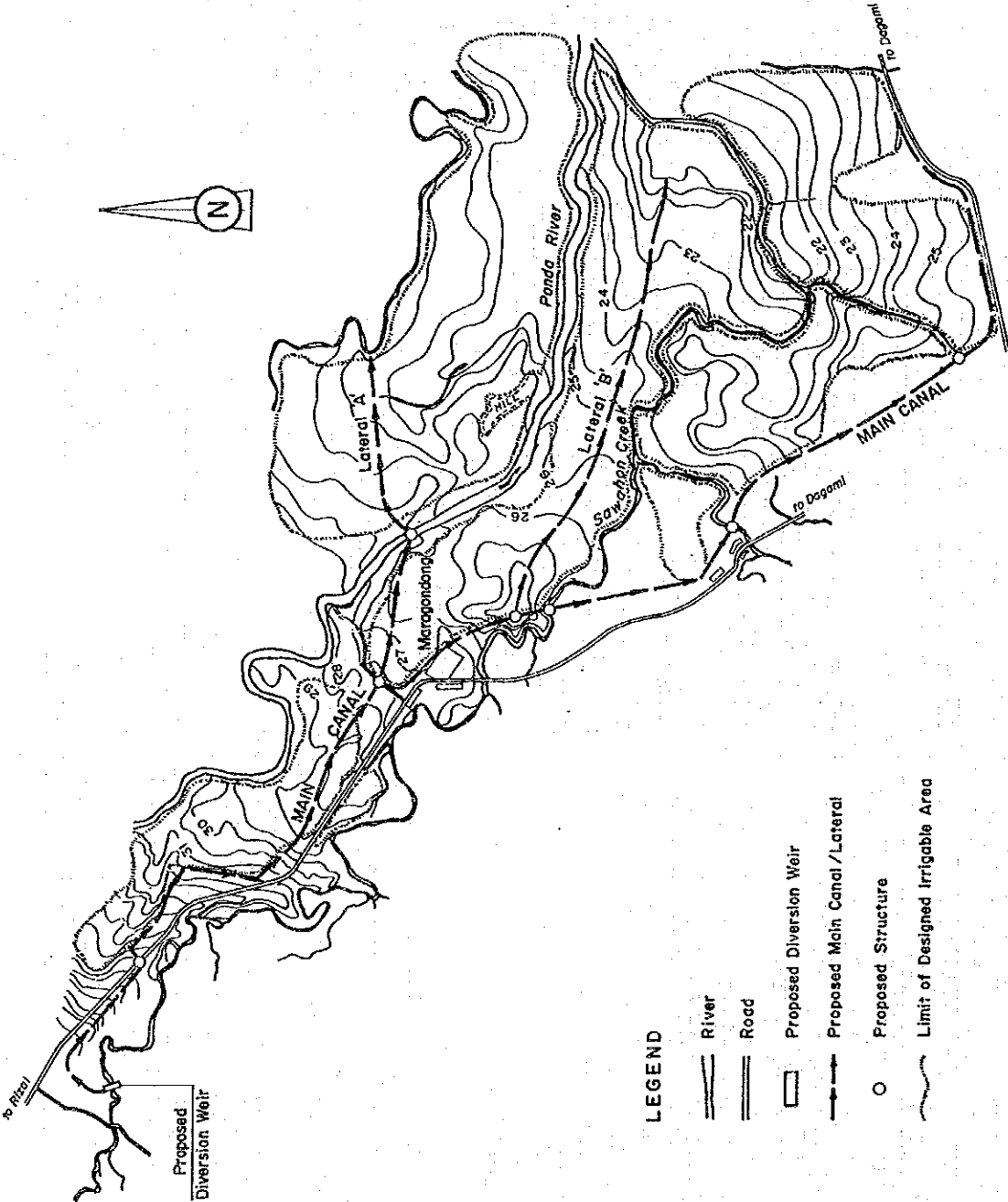
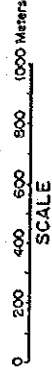
**DESIGNED IRRIGABLE AREA**



Designed Irrigable Area

Wet Season : 320 ha

Dry Season : 320 ha



LEGEND

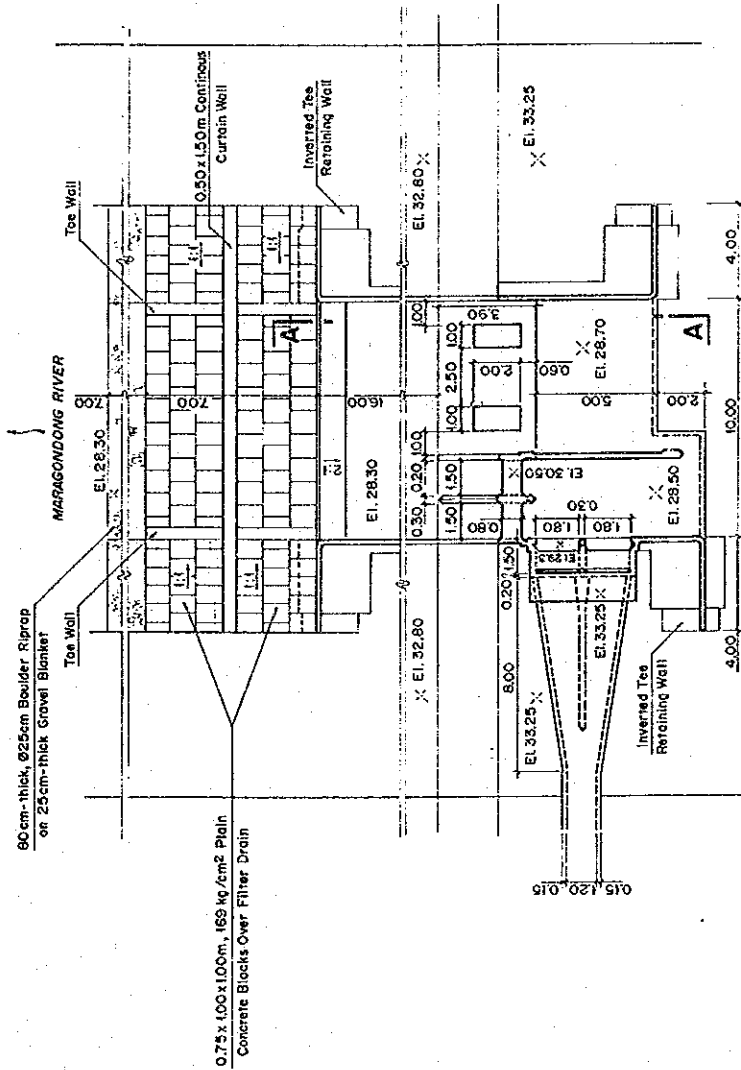
- River
- Road
- Proposed Diversion Weir
- Proposed Main Canal/Lateral
- Proposed Structure
- Limit of Designed Irrigable Area

MASTER PLAN STUDY ON SMALL SCALE IRRIGATION DEVELOPMENT PROJECT

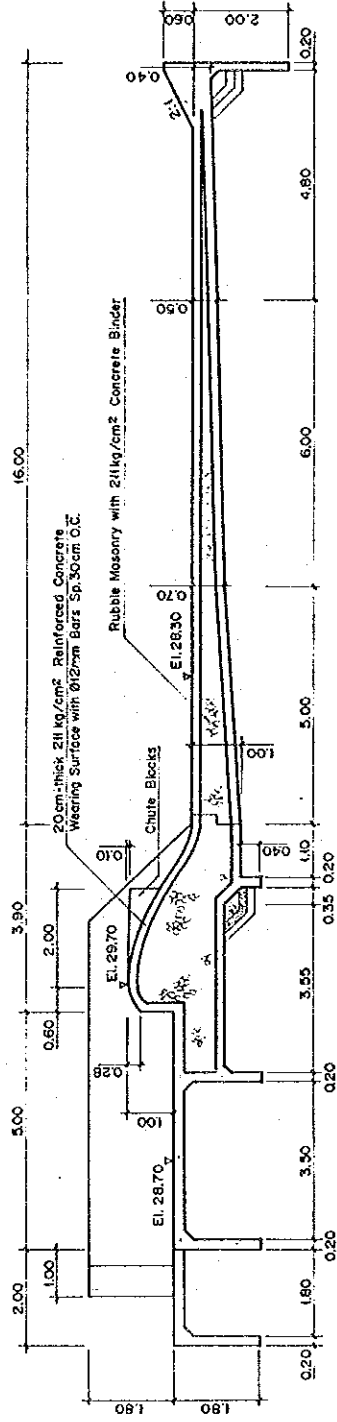
MARAGONDONG CIP (Leyte Province), GENERAL LAYOUT

Japan International Cooperation Agency

August , 1991



PLAN  
SCALE 0 2 4 6 8 10 Meters



SECTION A-A  
SCALE 0 1 2 3 4 5 Meters



## *ANNEX H*

### *PRIORITY GROUPING OF CANDIDATE SUB-PROJECTS AND MAJOR FEATURES OF "A" GROUP SUB-PROJECTS*





**ANNEX H**  
**PRIORITY GROUPING OF CANDIDATE SUB-PROJECTS**  
**AND**  
**MAJOR FEATURES OF "A" GROUP SUB-PROJECTS**

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## General Features of "A" Group Sub-Projects

Regions	Nos. of Sub-Projects	Designed Irrigable Area in Wet Season (ha)	Designed Irrigable Area in Dry Season (ha)	Cropping Intensity (%)	Nos. of Beneficiaries (Nos.)	Length of Diversion Dam (m)	Length of Main/Lateral Canals (m)	Chargeable Cost (peso)		Total Cost (peso)	Chargeable Cost per ha (peso/ha)	
								Chargeable Cost (peso)	Non-Chargeable Cost (peso)			
<b>CISS</b>												
Region I	36	4,450	3,220	172	5,482	746	146	29,823,174	8,477,468	38,300,642	6,702	
Region II	28	3,902	3,687	194	2,441	562	158	30,818,180	11,161,020	41,979,200	7,898	
Region III	7	1,703	1,703	200	675	4	56	5,697,768	6,587,865	12,285,633	3,246	
Region IV	14	2,981	2,713	191	1,539	1,007	77	28,839,580	8,197,119	37,036,699	9,674	
Region V	36	4,472	3,908	187	5,211	645	123	45,452,045	14,518,292	59,970,337	10,164	
Region VI	25	3,585	3,355	194	3,454	487	122	23,864,209	6,531,438	30,395,647	6,657	
Region VII	22	3,688	3,414	193	3,377	585	142	28,458,213	10,018,463	38,476,676	7,716	
Region VIII	62	9,864	8,185	183	6,866	1,033	296	109,832,049	32,402,493	142,234,542	11,135	
Region IX	9	2,048	2,028	199	1,138	166	66	19,255,148	9,929,124	29,184,272	9,402	
Region X	36	5,264	4,695	189	5,601	531	194	20,702,975	7,176,449	27,879,424	13,933	
Region XI	27	4,472	4,137	193	2,606	299	128	34,056,051	9,825,573	43,881,624	7,615	
Region XII	11	2,595	2,280	188	1,055	245	53	22,246,748	7,938,425	30,185,173	8,573	
Total (Average)	313	49,024	43,325	(188)	39,445	6,310	1,561	399,046,140	132,763,729	531,809,869	(8,140)	
<b>CIPS</b>												
Region I	16	1,618	1,482	192	2,142	401	119	53,488,844	17,637,687	71,126,531	33,059	
Region II	4	731	591	181	350	157	44	33,633,342	11,200,401	44,833,743	46,010	
Region III	0	-	-	-	-	-	-	-	-	-	-	
Region IV	14	2,004	1,433	172	1,789	524	100	88,671,255	29,376,574	118,047,829	44,247	
Region V	20	2,209	1,999	190	1,406	480	132	63,526,461	18,512,029	82,038,490	28,758	
Region VI	14	1,864	1,652	189	1,452	303	90	54,009,106	15,163,049	69,172,155	28,975	
Region VII	14	2,660	2,323	187	1,478	213	171	93,728,540	23,897,154	117,625,694	35,236	
Region VIII	13	1,703	1,585	193	1,340	664	106	67,564,719	19,777,788	87,342,507	39,674	
Region IX	2	290	290	200	98	42	16	9,480,200	3,267,248	12,747,448	32,690	
Region X	24	3,942	3,586	191	2,013	713	219	129,365,865	47,750,184	177,116,049	32,817	
Region XI	8	1,850	1,850	200	685	311	72	40,808,547	15,999,040	56,807,587	22,059	
Region XII	17	2,936	2,832	196	1,466	336	141	93,251,483	29,271,892	122,523,375	31,761	
Total (Average)	146	21,807	19,623	(190)	14,219	4,144	1,210	727,528,362	231,853,046	959,381,408	(33,362)	
CISS/CIPs	459	70,831	62,948	(189)	53,664	10,454	2,771	1,126,574,502	364,616,775	1,491,191,277	(15,905)	

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (1/11)

REGION NO. : I

PAGE 1

NO.	NAME OF CIP	MUNEICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY	NOS. OF FARMERS	DEPTH OF DIVERSION CANALS (m)	LENGTH OF MAIN/ATERIAL CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST (Peso/ha)	PERCENTAGE OF FARMERS	FUND SOURCE				
** PROVINCE : ILOCOS SUR **																		
1	CERRANTES		150	150	200	98	34	12	7,593,329	1,842,061	9,434,390	50,616	28	96				
2	PANG SUB CIP		50	50	280	57	25	4	1,705,724	988,642	2,694,366	28,429	30	96				
3	LARAYUA CIP		71	60	185	60	70	5	2,212,034	943,556	3,155,590	31,155	27	94				
4	PATTAT CIP		60	60	200	47	27	5	2,581,100	736,510	3,317,610	43,018	29	94				
5	CARUGAGAN CIP		360	360	200	220	70	8	6,204,300	2,197,508	8,401,808	17,234	45	94				
6	TIAGAN CIP		30	30	200	97	32	5	2,788,287	766,708	3,554,995	55,764	21	88				
7	CALLIP CIP		50	16	132	70	20	4	1,388,500	459,236	1,847,736	27,770	16	66				
PROVINCE TOTAL (AVERAGE)									24,472,194	7,514,283	32,406,477	(30,552)						
** PROVINCE : MOUNTAIN PROVINCE **																		
1	LAGE DANUK CIP (ANDALIS BAKAO)		91	91	200	--	5	8	2,935,594	1,105,823	4,101,417	32,919	34	100				
2	DARUAL CIP		186	186	200	212	15	17	6,584,400	2,404,379	8,988,779	35,400	36	100				
3	BUCAYNE CIP		79	79	200	225	35	4	2,171,450	752,484	2,923,934	27,523	43	100				
4	BALOG CIP		85	85	200	307	8	2	2,001,308	646,129	2,647,437	23,545	38	100				
5	SABANGEN PERO CIP		50	50	200	128	25	3	1,588,370	380,009	1,968,379	31,667	33	100				
6	MASILENG OTIVER CIP		184	184	200	79	10	20	5,225,774	1,873,065	7,098,839	56,979	11	64				
PROVINCE TOTAL (AVERAGE)									21,264,196	7,161,809	28,426,005	(35,739)						
** PROVINCE : BENGUET **																		
1	LOO VALLEY CIP		75	62	183	360	5	10	4,467,256	1,468,449	5,935,705	59,563	24	94				
2	BANCURIT CIP		92	31	134	63	5	10	1,827,572	542,887	2,370,459	20,952	24	76				
PROVINCE TOTAL (AVERAGE)									6,294,828	2,105,338	8,399,166	(38,252)						
** PROVINCE : PANGASINAN **																		
1	ALBERGOS		55	38	169	45	15	4	1,357,028	472,978	1,790,006	24,673	30	93				
PROVINCE TOTAL (AVERAGE)									1,357,028	472,978	1,790,006	(24,673)						
REGION TOTAL (AVERAGE)									1,418	1,483	2,022	(192)	401	59,460,814	17,637,687	71,128,501	(33,059)	

ESMAX -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (2/11)

REGION NO. : 11

PAGE 2

NO.	NAME OF CIP	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA		DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	HOS. OF FARMERS	BENEFICIARIES (Nos.)	DAM DIVISION	LENGTH OF MAIN/ATERIAL CANALS (km)	CROPPABLE COST (Peso)	NON-CROPPABLE COST (Peso)	TOTAL COST (Peso)	CROPPABLE COST PER AREA (Peso/ha)	MARKS IN PRIORITY-ZONE	FUND SOURCE
			IN WET SEASON (ha)	IN DRY SEASON (ha)												
** PROVINCE : BALINGUA ARAZAO **																
1	ANKALINGAN CIP	TABOK	176	166	166	194	90	10	14	7,985,303	5,300,191	11,285,494	45,371	31	94	CIUP II
2	ANDABAYAN CIP	RIZAL	200	150	150	154	150	125	13	36,000,991	4,100,981	20,161,972	37,289	17	77	
PROVINCE TOTAL (AVERAGE)																
			455	316	316	(169)	240	135	27	21,026,294	7,401,172	31,427,466	(52,689)			
** PROVINCE : IPIGANO **																
1	DAMAS CIP	AGUINALDO	60	60	60	200	61	5	5	1,415,036	1,253,743	2,669,839	23,602	35	95	
2	PISTO CIP	POTIA	215	215	215	300	49	17	10	8,190,952	2,515,486	10,736,438	38,097	34	92	CIUP II
PROVINCE TOTAL (AVERAGE)																
			275	275	275	(300)	110	22	15	9,607,048	3,769,229	13,406,277	(34,935)			
SECTION TOTAL (AVERAGE)																
			731	591	591	(181)	350	157	44	31,633,342	11,200,401	44,333,743	(46,019)			

REMARK -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (3/11)

SECTION NO. : IV

PAGE 3

NO.	NAME OF CIP	MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY	NO. OF FARMERS BENEFICIARIES (Nos.)	DEPTH OF MAIN/ATERIAL CANALS (m)	LENGTH OF MAIN/ATERIAL CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	BIRDS PER HECTARE	PRIORITY ZONE	ROAD SOURCE
** PROVINCE : ABOGADA **															
1	DIBOLDO CIP	DIBOLDO	200	200	200	66	12	8	6,809,376	1,698,420	8,507,796	34,047	36	90	
PROVINCE TOTAL (AVERAGE)															
** PROVINCE : QUEZON **															
1	ELMAYILAN CIP	CARDELARIA	100	100	200	49	31	6	5,106,000	1,419,640	7,205,640	51,860	23	95	
2	BONGSIBONG CIP	BUESAYISTA	100	100	200	--	19	8	5,923,282	1,421,588	7,344,870	59,233	24	94	
3	KATAHAN CIP	TAGAYANAN	147	147	200	101	27	5	3,975,386	985,093	4,960,479	27,043	24	92	CARP-IC
PROVINCE TOTAL (AVERAGE)															
** PROVINCE : CAVITE **															
1	SAPANG CIP	TERRATE	50	50	200	94	210	5	3,270,470	934,523	4,205,993	65,409	24	96	
2	PADESCO CIP	MAGALLANES	172	77	145	97	3	10	11,548,791	2,451,209	14,000,000	67,164	23	83	
PROVINCE TOTAL (AVERAGE)															
** PROVINCE : MINDORO ORIENTAL **															
1	SIGABO CIP	BONGABONG	85	85	200	--	25	7	4,512,563	2,910,775	7,423,338	53,089	27	96	
PROVINCE TOTAL (AVERAGE)															
** PROVINCE : BONGSAYAN **															
1	ESPARA CIP	SAN FERNANDO	70	70	200	65	25	3	2,559,265	1,444,528	4,003,793	36,581	30	98	
PROVINCE TOTAL (AVERAGE)															
** PROVINCE : PALAWAN **															
1	TIGAYANA CIP	QUEZON	250	250	200	71	37	11	14,411,405	5,223,292	19,634,697	57,644	25	92	
2	SABO NILO CIP	BUSCARA	80	80	200	56	25	6	4,881,438	1,328,311	6,212,749	61,056	23	89	
3	BORAC CIP	CORON	100	53	153	53	25	8	3,283,350	982,081	4,265,431	32,834	24	83	CARP-IC
4	TANUSAY CIP	BAYBIZA	150	62	141	70	28	7	5,553,452	1,352,828	6,906,280	37,023	19	76	
5	TANUSAY CIP	BAYBIZA	400	125	131	--	32	13	10,792,373	5,955,341	16,747,714	26,991	17	65	
6	SAN NICOLAS CIP	CORON	100	34	134	55	25	5	5,361,081	1,288,732	6,649,813	53,614	13	60	
PROVINCE TOTAL (AVERAGE)															
REGION TOTAL (AVERAGE)															
REGION TOTAL (AVERAGE)															

REMARKS -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (4/11)

SECTION NO. : 9

PAGE 4

NO.	NAMES OF CIP	MWD OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	NOS. OF FARMERS BENEFITING (Nos.)	DEPTH OF DIVERSION (m)	LENGTH OF MAIN/INTERNAL CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	ROYAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	IRRIGATION EFFICIENCY (%)	MAKES IT FEASIBLE?	PURD. SOURCE
** PROVINCE : CAMARINES NORTE **															
1	TUACA CIP	BASO	55	50	191	--	20	4	2,980,958	715,430	3,696,388	54,195	29	100	
2	CALASA-DALAB CIP	JOSE PANGNINAN	80	80	200	--	25	5	3,160,680	758,563	3,919,243	39,509	33	96	
3	KABINI CIP	CAPALONGA	80	60	175	--	10	4	1,952,471	468,583	2,421,054	24,406	48	96	
4	KATAQUE CIP	CAPALONGA	90	62	169	--	40	6	4,191,200	1,005,888	5,197,088	46,559	28	59	
5	RACUA CIP	PARAGALS	60	40	167	--	20	4	3,549,236	851,817	4,401,053	59,154	26	94	
6	PALABR CIP	DAET	75	70	193	--	15	7	4,813,900	1,107,120	5,921,020	61,507	13	80	
7	TABAS CIP	PARAGALS	110	55	139	--	28	8	7,637,996	2,107,283	9,745,279	54,557	22	77	
PROVINCE TOTAL (AVERAGE)															
			580	417	(172)	--	158	39	28,085,541	7,014,594	35,100,135	(48,423)			
** PROVINCE : CAMARINES SUR **															
1	SURLEOD CIP	CALABANGA	100	100	300	--	25	7	1,869,000	643,637	2,512,637	18,690	57	96	
2	KAKAS CIP (CIT.)	BAKO	300	300	300	--	32	6	2,153,000	511,580	2,664,580	7,190	72	96	
3	TALAN CIP (CIT.)	NIWALABAG	150	150	300	--	28	4	1,754,310	421,034	2,175,344	11,695	54	96	
4	CABRANGAR CIP	PILI	150	150	300	39	30	11	4,903,600	2,090,744	6,994,344	32,691	28	96	
5	BUNGAR CIP	BURI	80	80	300	--	25	5	1,366,152	327,876	1,694,028	17,077	33	96	
6	ROUTE VILLAZAR CIP	SITOCOT	60	60	300	--	25	7	1,830,300	439,272	2,269,572	30,505	34	96	
7	CAMBAYAN CIP	HAGA CITY	136	136	300	--	25	10	2,902,100	1,937,444	4,839,544	18,398	36	96	
8	SALTACION CIP	PANPORA	57	57	300	--	25	4	1,687,200	861,668	2,548,868	29,600	32	96	
PROVINCE TOTAL (AVERAGE)															
			1,033	1,033	(300)	39	215	53	18,069,662	6,369,585	24,439,247	(17,492)			
** PROVINCE : ALBAY **															
1	KALIBAGO-MALITO CIP (CARE-IC)	CUINOBATAN	125	125	300	--	13	9	3,741,224	1,017,386	4,758,610	29,930	34	96	CARE-IC
2	BADIAN-KATBERKAR CIP	UGAO-ONG	130	130	300	--	45	5	2,787,188	931,280	3,718,468	21,440	41	96	
3	SAN ROQUE-SAN ISIDRO CIP	JOBVILGAR	125	125	300	--	20	3	3,571,921	989,941	4,561,862	28,575	35	96	
PROVINCE TOTAL (AVERAGE)															
			380	380	(300)	--	78	22	16,100,333	2,941,527	19,041,860	(26,580)			
** PROVINCE : SORSOGON **															
1	BUNATAN CIP	SORSOGON	87	87	200	84	14	11	3,749,754	920,639	4,670,393	43,101	28	96	
2	CADAO CIP	INGOSIN	129	82	184	110	15	6	3,521,191	1,275,514	4,796,705	27,296	32	91	
PROVINCE TOTAL (AVERAGE)															
			216	169	(178)	194	29	17	7,270,945	2,196,253	9,467,198	(33,662)			
SECTION TOTAL (AVERAGE)															
			2,209	1,959	(100)	233	480	132	61,526,461	18,512,029	80,038,490	(28,759)			

REMARKS -- : Data not available



GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (5/11)

REGION NO. : VI

PAGE 5

NO.	NAME OF CIP	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY	MOS. OF BENEFICIARIES	LENGHT OF DIVERSION MAIN/UTERIAL CANALS (km)	LENGHT OF IRRIGABLE CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST (Peso/ha)	IRRIGABLE AREA (ha)	PRIORITY RATION	SOURCE
** PROVINCE : Aklan **															
1	LASEBA CIP	MABAS	100	100	200	--	25	0	3,113,000	942,197	4,055,197	31,120	11	73	
PROVINCE TOTAL (AVERAGE)															
** PROVINCE : Antique **															
1	STA. JUSTA INCORPORATE CIP	TIBIDAO	450	450	200	500	41	6	5,365,387	2,166,538	7,531,925	11,923	40	96	
2	BUDOGAN-SIG-AN CIP	BAHIC	60	45	175	57	0	3	1,623,370	535,557	2,158,927	27,056	23	91	
3	CARIT-AN CIP	PATONGON	80	80	200	95	32	4	4,542,685	1,246,306	5,788,991	56,784	53	76	
PROVINCE TOTAL (AVERAGE)															
** PROVINCE : Iloilo **															
1	BAIKAB CIP	AIJIT	64	64	200	32	15	2	4,066,000	1,071,320	5,137,320	69,531	11	75	LEAD
PROVINCE TOTAL (AVERAGE)															
** PROVINCE : NEGROS ORIENTAL **															
1	DACUYANAN CIP	BINDOA - AN	205	166	172	126	20	9	4,921,500	1,196,600	6,118,100	29,061	28	98	
2	TIONGOR CIP	ISABELA	90	90	200	95	32	1	1,810,325	563,832	2,374,157	20,115	28	96	
3	LANTARAN CIP	SILAY	150	150	200	79	15	6	4,153,800	1,012,768	5,166,568	27,705	44	94	
4	LILO CIP	CUNYAN	130	130	200	75	12	12	4,816,650	1,196,800	6,013,450	37,051	22	87	
5	BINDOA - AN CIP	BINDOA - AN	145	145	200	74	25	8	3,196,586	1,208,642	4,405,228	24,804	22	87	CIDP II
6	CALACAT CIP	BAGO	50	50	200	56	21	5	2,911,508	723,560	3,635,068	58,230	13	80	
7	CASUSA CIP	BAGO	60	60	200	--	15	7	4,083,893	985,951	5,069,844	66,165	16	80	
8	CAWAYAN CIP	CAUNAN	80	80	200	38	25	3	3,447,915	889,111	4,337,026	43,094	11	69	LEAD
9	TALAYAP CIP	LA CASTELLANA	200	80	130	100	17	17	5,742,863	1,455,167	7,198,030	28,714	13	59	
PROVINCE TOTAL (AVERAGE)															
** REGION TOTAL (AVERAGE) **															
			1,110	919	(182)	643	182	67	35,199,664	9,309,131	44,508,795	41,801			
REGION TOTAL (AVERAGE)			1,864	1,582	(189)	1,327	303	90	54,009,106	15,163,049	69,172,155	28,975			

REMARKS --- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (6/11)

REGION NO. : VII

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NO.	NAME OF CIP	MANS OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN 1ST SEASON (ha)	DESIGNED IRRIGABLE AREA IN 2ND SEASON (ha)	DESIGNED IRRIGABLE AREA IN 3RD SEASON (ha)	CROPPING INTENSITY (%)	FARMERS BENEFICIES (Nos.)	DIVERSION DAY	DEPTH OF MAIN/ATERIAL CANALS (m)	LENGTH OF MAIN/ATERIAL CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	COST PER AREA (Peso/ha)	CHARGEABLE BIER (%)	MANS PER IRRIGABLE ZATIION	PROJ SOURCE
** PROVINCE : CEBU **																	
1 CARADIANAN CIP																	
		COMPOSTELA	200	123	115	162	115	28	15	15	7,274,750	2,124,094	9,398,844	36,124	33	90	
PROVINCE TOTAL (AVERAGE)																	
			200	123	115	(162)	115	28	15	15	7,274,750	2,124,094	9,398,844	(36,124)			
** PROVINCE : NEGROS OCCIDENTAL **																	
1 SOLORON CIP																	
	LA LIBERTAD		200	280	200	200	200	15	20	20	11,469,314	3,096,443	14,565,757	57,302	30	96	
2 SIPAYO CIP																	
	CHIRIBOGAN		300	250	183	200	200	20	15	15	8,244,800	2,003,552	10,248,352	27,483	15	98	
3 PACOR CIP																	
	LA LIBERTAD		90	90	200	200	100	10	14	14	4,279,665	1,134,070	5,413,735	41,552	30	98	
4 BAHILAD CIP																	
	BACOR		60	60	200	200	66	10	7	7	2,828,352	679,044	3,507,396	47,156	34	96	
5 SAN ANTONIO CIP																	
	SIBULAN		200	180	180	200	72	15	12	12	4,813,984	1,155,356	5,969,340	24,070	50	96	
6 TABUAN CIP																	
	BAIYAN		100	100	200	200	70	10	8	8	4,253,200	1,046,008	5,300,008	42,532	29	96	
7 VALENCIA CIP																	
	VALENCIA AND DIMAGUETE		350	350	200	200	200	25	21	21	11,073,465	2,719,632	13,793,097	31,638	44	94	CIP II
8 MARINAY CIP																	
	ABIS, LOYANG, BATO AND SAMAC		500	500	200	200	150	15	19	19	14,757,600	3,603,072	18,360,672	29,516	45	94	
9 HIGUALATE CIP																	
	SFA, CASALINA		80	80	200	200	60	20	7	7	3,819,300	941,432	4,760,732	47,741	50	94	
10 MARELLO CIP																	
	LA UBEREAD		80	80	200	200	60	10	11	11	3,201,530	954,367	4,155,897	40,019	33	94	
11 BACTIC CIP																	
	MABIRAY		50	50	200	200	50	15	8	8	1,727,260	438,342	2,165,602	31,545	41	94	
12 MACA-MABUYOP CIP																	
	SIATON		250	80	132	132	55	8	8	8	6,074,300	1,482,632	7,556,932	24,297	36	78	
PROVINCE TOTAL (AVERAGE)																	
			2,260	2,000	(188)	1,283	1,283	173	150	150	76,535,300	19,216,550	95,751,850	(32,865)			
** PROVINCE : SIKOTJOR **																	
1 SIMACONG CIP																	
	LALI		200	200	200	200	80	12	6	6	9,368,790	2,516,510	12,485,300	49,844	36	94	
PROVINCE TOTAL (AVERAGE)																	
			200	200	(208)	80	80	12	6	6	9,368,790	2,516,510	12,485,300	(49,844)			
REGION TOTAL (AVERAGE)																	
			2,660	2,323	(187)	1,478	1,478	213	171	171	93,728,540	23,891,154	117,625,694	(35,236)			

REMARK -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (7/11)

SECTION NO. : VIII

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NO.	NAME OF CIP	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CEPPING INTENSITY (%)	NO. OF PARKS/BENEFICIARIES (Nos.)	DIVERSION CANALS (n)	LENGTH OF MAIN/INTERNAL CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	AREA (ha)	NO. OF PRIORITY-IRRIGATION	FUND SOURCE
** PROVINCE : NORTHERN SAMAR **															
1	PALALI CIP	CATARAN	270	270	300	130	52	14	16,609,410	4,113,738	20,723,178	61,516	22	81	CIDP II
2	SITUNGAN CIP	LAYAGRES	75	75	300	77	43	6	4,938,277	1,542,012	6,540,289	66,644	18	83	
PROVINCE TOTAL (AVERAGE)															
			345	345	(200)	207	95	21	21,607,717	5,655,750	27,263,467	( 62,631 )			
** PROVINCE : SARAR **															
1	HINILARAN-SARANIS CIP	MOTONG	65	65	300	116	16	5	2,062,650	495,036	2,557,686	31,133	35	95	CIDP II
2	LAWAN CIP	PARARIS	300	250	183	90	24	20	7,007,000	2,422,430	9,429,430	23,357	42	95	
3	PAGO CIP	PARARIS	100	100	200	128	400	9	4,040,400	1,228,036	5,268,436	68,404	33	96	
PROVINCE TOTAL (AVERAGE)															
			465	415	(188)	334	440	34	13,110,050	4,145,502	18,255,552	( 29,914 )			
** PROVINCE : EASTERN SAMAR **															
1	SUDONG CIP	CAN-AND	79	62	178	55	8	6	4,228,162	1,783,329	6,009,491	60,837	21	85	
2	SAN EDUARDO CIP	ORAS	66	66	200	79	10	4	3,157,124	1,190,160	4,347,284	67,035	20	86	IRAD
PROVINCE TOTAL (AVERAGE)															
			145	128	(188)	134	18	9	6,385,286	2,973,489	9,358,775	( 44,023 )			
** PROVINCE : NORTHERN LEYTE **															
1	BIZAL CIP	BABATONG	100	90	190	118	30	2	3,491,004	955,541	4,446,545	34,910	34	100	CIDP II
2	KABAGONG CIP	DAGAKI	320	320	200	206	10	10	4,939,060	1,079,540	6,018,600	15,434	41	96	
3	BALABOD CIP	CHOCOCAYAN	120	79	166	159	9	9	3,224,397	865,901	4,090,298	29,375	34	94	
PROVINCE TOTAL (AVERAGE)															
			540	489	(191)	483	49	21	11,654,461	2,901,982	14,556,443	( 22,139 )			
** PROVINCE : SOUTHERN LEYTE **															
1	SAN VICENTE CIP	MALIBOG	55	55	300	25	8	5	3,357,269	822,330	4,179,599	61,941	23	89	
2	LAYAGAN CIP	BONTOC	70	70	300	79	30	6	4,630,015	1,387,294	6,025,337	66,258	19	87	
3	MARUYAG CIP	SOOD	83	83	300	78	21	4	5,713,153	1,694,291	7,407,444	68,836	13	90	
PROVINCE TOTAL (AVERAGE)															
			208	208	(200)	182	62	15	13,700,437	3,904,915	17,605,352	( 65,967 )			
REGION TOTAL (AVERAGE)															
			1,703	1,595	(193)	1,340	664	106	67,564,719	19,771,708	87,336,427	( 99,674 )			

REMARKS -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (8/11)

REGION NO. : 12

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NO.	N.A.M.E. OF CIP	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	NO. OF FARMERS BENEFICIARIES	LENGHT OF DIVERSION MAIN/LEVEEL CANALS (km)	LENGHT OF CHARGEABLE COST (km)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	SIZE (ha)	WATER PRODUCTIVITY (kg/ha)	FUND SOURCE	
** PROVINCS : ZAMBANGA DEL NORTE **															
1	PILEAN CIP	SIBIHAI	190	190	200	65	30	9	4,666,226	1,139,887	5,786,103	24,559	62	94	CIP II
2	BATAVAN 3 CIP	TITAY	100	100	200	33	12	7	4,813,954	2,147,351	6,961,305	69,110	28	90	
PROVINCE TOTAL (AVERAGE)			290	290	(200)	98	42	16	9,480,200	3,287,238	12,747,408	(32,690)			
REGION TOTAL (AVERAGE)			290	290	(200)	98	42	16	9,480,200	3,287,238	12,747,408	(32,690)			

REMARK -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (9/11)

REGION NO. : 1

PAGE 3

NO.	NAME OF CIP	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA		DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	CROPPING INTENSITY (%)	RUS. OF FARMERS BENEFICIARIES (nos.)	LENGTH OF DIVISION DAM (m)	LENGTH OF MAIN/LETERAL CHANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	STEEPER RATIO (%)	MAZES IN PRIORITY ZONE	FUND SOURCE
			(ha)	(ha)													
<b>** PROVINCE : SURIGAO DEL NORTE **</b>																	
1	SAN ROQUE CIP	PIJAR	110	110	110	110	200	70	25	10	4,828,200	1,277,832	6,106,032	43,834	35	98	
2	BUBING MALIPAY CIP	SAN ISIDRO	210	190	190	190	70	28	8	8,058,334	1,943,600	10,001,934	38,563	38	94		
PROVINCE TOTAL (AVERAGE)																	
			320	300	300	300	(194)	140	53	19	12,886,534	3,221,432	16,108,066	(40,396)			
<b>** PROVINCE : AGUSAN DEL NORTE **</b>																	
1	CALAYAGON AGONG-ONG CIP	SUBANAYSTA	200	200	200	200	236	79	7	10,030,561	2,822,289	12,852,850	50,153	33	96	CARP-IC	
2	MAGUIDA CIP	SUTAN CIP	100	100	100	100	93	35	7	3,176,350	1,050,325	4,226,675	31,766	39.4	96		
3	CAHAYAN CIP	BUTUAN CITY	75	75	75	75	60	25	4	2,711,500	1,335,194	4,047,694	35,155	36	94		
4	GUINBESAN CIP	SUBANAYSTA	100	100	100	100	54	45	12	6,975,603	1,674,145	8,649,748	69,756	28	94	CIPB II	
5	DELIT CIP	NASIPIT	127	127	127	127	54	80	19	6,851,197	2,005,114	8,857,311	53,946	33	94		
PROVINCE TOTAL (AVERAGE)																	
			602	602	602	602	497	264	48	29,745,511	8,889,065	38,634,576	(49,411)				
<b>** PROVINCE : MISAMIS ORIENTAL **</b>																	
1	INABINDING CIP	GLORIA	100	100	100	100	452	18	5	3,617,374	868,170	4,485,544	36,174	42	100		
2	LARAN CIP	GINO-OG CITY	70	56	56	56	84	12	2	932,571	223,817	1,156,388	13,322	84	96		
3	PAGANAR CIP	MANTICAO	80	80	80	80	30	52	3	2,478,749	3,335,510	5,815,259	30,984	27	94		
PROVINCE TOTAL (AVERAGE)																	
			250	236	236	236	566	82	11	7,028,694	4,428,527	11,457,221	(28,115)				
<b>** PROVINCE : BURLINGO **</b>																	
1	BACUSANOB CIP	PANGANTUCAN	150	150	150	150	37	28	12	5,932,200	2,151,363	8,083,563	39,518	37	96		
2	ADUON CIP	PANGANTUCAN	125	125	125	125	42	25	5	6,637,735	4,578,512	11,216,247	53,102	27	96		
3	BONACAO-HANAK CIP	SAN FERNANDO	400	400	400	400	132	24	12	8,785,108	2,199,067	10,984,175	21,963	31	94		
4	BUGWAK CIP	DARGAGAN	180	100	100	100	48	40	4	2,228,007	734,118	3,022,125	22,280	57	94		
5	PAIWAIG CIP	KALAYBALAY	200	200	200	200	67	28	7	3,238,070	2,121,385	5,359,455	16,230	52	94		
6	BULANAN CIP	MALAYBALAY	200	200	200	200	45	7	10	5,124,465	1,415,712	6,870,177	27,122	32	94		
7	SURCO - ALAMIS CIP	LANTARAN	300	300	300	300	100	32	6	7,008,450	1,841,244	8,849,694	23,462	58	94		
8	BAGIC-IGAN CIP	PANGANTUCAN	125	125	125	125	42	25	9	3,906,531	2,477,201	6,383,732	31,412	39	94		
9	CAYAGA CIP	SAN FERNANDO	150	150	150	150	40	28	16	10,157,580	5,472,074	15,629,654	67,717	19	79		
PROVINCE TOTAL (AVERAGE)																	
			1,750	1,750	1,750	1,750	553	237	86	53,358,146	23,080,957	16,439,103	(30,490)				
<b>** PROVINCE : AGUSAN DEL SUR **</b>																	
1	LABIS CIP	TALACOGON	150	150	150	150	56	10	7	4,113,400	1,059,356	5,172,756	27,556	50	96		
2	ANDUNGAN CIP	ESPERANZA	150	135	135	135	45	15	11	3,795,460	1,346,101	5,141,561	25,303	37	96		
3	OTLONG CIP	ESPERANZA	120	120	120	120	--	15	9	1,151,616	5,120,766	6,272,382	33,076	36	94		
4	COBO CIP	ESPERANZA	200	170	170	170	45	15	7	4,327,740	1,299,058	5,626,798	21,639	52	94		
5	SIANES CIP	ROSARIO	400	400	400	400	50	22	22	10,681,130	3,275,071	13,956,201	25,243	36	77		
PROVINCE TOTAL (AVERAGE)																	
			1,020	698	698	698	196	77	56	26,306,860	8,130,282	34,437,082	(25,791)				

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (10/11)

SECTION NO. : II

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NO.	NAME OF CIP	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	NO. OF FARMERS BENEFICIARIES (Res.)	DICTIONARY DAM	DICTIONARY CANALS (km)	LENGTH OF MAIN/TERMINAL CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	COST PER AREA (Peso/ha)	CHARGEABLE AREA (ha)	MAKES IN PRIORITY ZONE	SCORES
<b>** PROVINCE : DAVAO ORIENTAL **</b>																
1	OLIN CIP	BANGA	150	150	300	--	15	6	3,492,200	823,728	4,255,928	22,881	52	96		
PROVINCE TOTAL (AVERAGE)																
<b>** PROVINCE : DAVAO DEL NORTE **</b>																
1	SENOS CIP	BAPALONG	460	460	200	222	32	8	7,215,235	1,775,859	8,991,094	15,585	37	92		
2	ARAO CIP	ROMAYO & ATA, JOSEFA	370	370	200	81	32	7	6,783,713	4,823,119	11,506,832	16,334	23	87		
PROVINCE TOTAL (AVERAGE)																
<b>** PROVINCE : DAVAO DEL SUR **</b>																
1	JAVIER ESTATE CIP	KIBLAYAN	50	50	200	30	25	4	2,271,198	1,915,908	4,187,106	45,424	28	98		
2	DOY MARIANO MASOS CIP	KIBLAYAN	100	100	200	--	12	4	4,787,804	1,401,555	6,189,359	47,576	33	98		
3	DOYER MABER CIP	BANSALAN	240	240	200	100	15	16	5,431,495	1,315,959	6,747,454	28,531	35	92		
PROVINCE TOTAL (AVERAGE)																
<b>** PROVINCE : SOUTH COGNATO **</b>																
1	SUJI - BEUCON CIP	LIAMBA	80	80	200	31	160	7	2,966,310	980,852	3,947,162	31,879	34	94		
2	KAWAS CIP	ALABEL	400	400	200	128	20	19	7,940,792	2,982,690	10,923,482	19,652	60	92		
PROVINCE TOTAL (AVERAGE)																
REGION TOTAL (AVERAGE)																
REMARK -- : Data not available																

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIP (11111)

REGION NO. : III

NO.	NAME OF CIP	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY	NOS. OF FARMERS BENEFICIARIES	LENGH OF DIVISION DAM	LENGH OF RAIN/LATERAL CANALS (km)	IRRIGABLE COST (Peso)	NON-IRRIGABLE COST (Peso)	TOTAL COST (Peso)	IRRIGABLE COST PER AREA (Peso/ha)	IRRIGABLE PERCENTAGE	YEAR OF COMPLETION
** PROVINCE : LARAO DEL NORTE **														
1	BALUT CIP	BALUT	175	175	200	150	28	8	2,415,807	579,794	2,995,601	13,805	79	96
2	MORAI CIP	MORAI	180	180	200	80	30	8	8,841,632	2,122,712	10,964,344	19,137	36	96
3	MAHAYAG CIP	MAHAYAG	100	50	150	41	25	8	6,057,952	1,518,365	7,576,317	69,580	17	74
PROVINCE TOTAL (AVERAGE)														
			455	405	(189)	271	83	24	17,318,391	4,351,491	21,669,882	(38,062)		
** PROVINCE : LANAO DEL SUR **														
1	JALASITUN CIP	JALASITUN	214	214	200	90	17	7	2,708,132	1,008,806	3,717,038	12,655	61	96
2	DULANGAN CIP	DULANGAN	120	120	200	47	15	29	4,905,870	1,577,512	6,483,382	10,882	39	96
3	MAHAYAG CIP	TAGULUAN	110	84	176	75	15	5	2,157,000	787,928	2,944,928	19,609	42	96
PROVINCE TOTAL (AVERAGE)														
			444	418	(194)	212	47	42	9,771,002	3,384,438	13,155,440	(22,007)		
** PROVINCE : MAGUINDANAO **														
1	LIBUAN CIP	LIBUAN	187	79	174	59	25	6	4,012,236	1,095,617	5,107,853	27,698	34	94
2	MALATING CIP	AMPATUAN	500	500	200	261	28	20	21,781,114	5,625,587	27,406,701	13,562	31	94
PROVINCE TOTAL (AVERAGE)														
			687	579	(195)	320	45	26	25,793,350	6,721,124	32,514,474	(42,493)		
** PROVINCE : SULTAN KUDABAT **														
1	BARAKAYAN CIP	PALINBANG	250	250	200	120	20	5	4,031,470	2,338,373	6,369,843	16,126	43	94
2	BARTANGAN CIP	COLUMBIO	150	150	200	70	15	6	3,586,899	860,856	4,447,755	23,913	35	94
3	MALIGAYA CIP	COLUMBIA	150	150	200	72	15	5	3,368,012	308,323	4,176,335	22,653	37	94
4	MAROL CIP	BAGUMBAYAN	150	150	200	71	14	2	3,101,656	744,400	3,846,056	20,678	59	94
5	VILLANOR CIP	ESPERANZA	380	300	200	142	20	7	6,654,716	4,338,777	10,993,493	22,182	41	94
6	UPPER COLUMBIO	COLUMBIO	80	80	200	42	15	5	2,993,055	703,993	3,697,048	36,683	39	94
7	BAYAN CIP	BAGUMBAYAN	180	180	200	53	12	8	4,339,174	1,041,402	5,380,576	41,382	33	94
8	EAST LAGUITAYAN CIP	ISUBIN	100	100	200	33	10	5	4,161,130	1,070,671	5,231,801	44,611	30	92
9	MALINGK DALOG CIP	COLUMBIO	150	150	200	60	40	4	7,892,458	2,888,104	10,780,562	52,517	12	70
PROVINCE TOTAL (AVERAGE)														
			1,400	1,400	(200)	650	161	50	40,368,710	14,714,539	55,083,249	(28,240)		
REGION TOTAL (AVERAGE)														
			2,996	2,832	(196)	1,466	336	141	93,241,483	29,271,892	122,513,375	(31,761)		
NATION TOTAL (AVERAGE)														
			21,887	19,623	(190)	12,125	4,144	1,210	727,528,362	231,853,016	959,381,378	(33,362)		

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (1/17)

NO.	NAMES OF CIS	MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	NO. OF FARMERS	BENEFICIARIES (Nos.)	DIVERSION DAN	DIVERSION MAIN/SETRAL CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	IRRIGATION RATE (%)	PRIORITY-RANKING	FUND SOURCE
** PROVINCE : ILOCOS NORTH **																
1	RAGSBOOT ARYAN CIS	BURGOS	81	81	200	27	0*	0*	1,906,500	457,550	2,364,050	23,537	37	92		
2	CARACAO CATAHODEN CIS	ESPIRITU	71	71	200	50	0*	2*	827,700	313,988	1,141,688	11,658	26	81		
3	PAYAS BODOR CIS	BURGOS	50	60	200	56	10*	1*	1,906,500	457,550	2,364,050	31,275	27	81		
4	SAR ISIDRO CIS	ESPIRITU	53	53	200	70	40*	2*	911,400	331,056	1,242,456	17,196	18	68		
5	CABAGAR KARAPAYA CIS	DINGRAS	72	50	169	130	0*	11*	1,315,950	408,081	1,724,031	18,277	10	55		
PROVINCE TOTAL (AVERAGE)			337	315	(193)	333	50	16	6,868,050	1,971,228	8,839,278	(20,380)				
** PROVINCE : AREA **																
1	GARGAL-SUBSOOR CIS	GARGAL	54	54	200	100	0	0	31,524	8,046	41,570	621	44	81		
2	DARAC I AND II CIS	ROHIBAY	62	62	200	300	0	5*	15,007	10,933	55,795	739	43	81		
3	PAYOC CIS	ROYAC	242	242	200	160	78*	3*	2,010,513	482,523	2,493,036	8,308	34	79		
4	AGUILAR CIS	SALAPADAN	55	55	200	50	0*	2*	206,858	49,646	256,504	3,161	31	79		
5	CAVAD-LAGAYAR CIS	LAGAYAN	350	46	113	--	0*	17*	2,729,823	655,158	3,384,981	7,799	10	70		
PROVINCE TOTAL (AVERAGE)			763	459	(160)	610	78	31	5,036,521	1,296,366	6,232,887	(6,538)				
** PROVINCE : ILOCOS SUR **																
1	ARELAYAT CIS	TAGDITIN	86	86	200	108	0*	0*	2,408,000	639,320	3,047,320	28,000	25	78		
2	CAYAPA - ROSAS CIS	BARAYAN	251	60	124	142	36*	4*	2,473,800	766,692	3,240,492	9,856	15	75		
PROVINCE TOTAL (AVERAGE)			337	146	(113)	250	36	4	4,881,800	1,406,012	6,287,812	(14,486)				
** PROVINCE : MOUNTAIN PROVINCE **																
1	PANGAO-PIPIYAN CIS	BADKO	117	117	200	60	5*	11	50,000	136,000	186,000	422	43	97		
2	SUTIQUE CIS	PARACELIS	308	308	200	66	0*	6*	837,000	200,800	1,037,800	2,718	33	88		
3	KADA CIS	BAJEO	147	147	200	84	4*	4*	810,000	424,400	1,234,400	5,510	14	62		
4	CHALIMATY CHANGANG CIS	SADANGA	60	60	300	494	9*	7*	570,000	136,800	706,800	9,500	11	61		
PROVINCE TOTAL (AVERAGE)			632	632	(300)	704	18	28	2,267,000	916,000	3,183,000	(3,587)				
** PROVINCE : LA UNION **																
1	POLIPOL CIS	BAJANG	180	67	137	220	35*	3*	750,000	180,000	930,000	4,167	30	81		
2	CENTER CARARON CIS	BAGONTIN	150	80	153	180	30*	1*	528,500	156,840	685,340	3,523	41	81		
3	LOWER CARARON CIS	BAGONTIN	126	80	163	205	35*	1*	601,000	144,240	745,240	5,770	38	81		
4	BIGRICA CIS	SUDIPEN	100	57	167	150	23*	2*	361,000	86,640	447,640	3,610	48	81		
5	BANGRAY CIS	SAN JUAN	90	67	174	120	27*	2*	378,975	131,316	510,291	4,211	43	81		
6	AGSABAN CIS	BALAHAN	84	80	195	105	20*	2*	476,150	114,276	590,426	5,668	44	81		
7	CACUPANGAN CIS	ROSARIO	80	67	184	115	18*	3*	490,000	117,600	607,600	6,125	29	81		
8	DISSOOR CIS	BAJANG	50	50	200	75	15*	2*	380,000	91,200	471,200	7,600	37	81		

REMARK: \* : Rehabilitation is necessary. -- : Data not available



GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (2/17)

SECTION NO. : 1

PAGE 2

NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	NO. OF FARMERS/BENEFICIARIES	LENGTH OF DIVISION DAM	LENGTH OF MAIN/LATERAL CANALS (ks)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER HECTARE (Peso/ha)	SIZE (ha)	MARKS IN PRIORITY-ZONATION	FUND SOURCE
** PROVINCE : LA ORION **															
9	WABANG-RENG CIS	BACOTOPAN	50	50	200	55	20	1	479,000	113,500	586,500	9,460	39	81	
10	CASILAGAN CIS	MAGULLAN	50	50	300	85	25	1	766,000	182,400	942,400	15,200	35	81	
11	BURJAN CIS	SAN GABRIEL	50	50	200	70	35	2	552,000	169,600	721,600	11,040	42	81	
12	MAGULITAN CIS	MAGULITAN	338	338	200	223	80	19	1,069,500	429,600	1,499,100	3,164	33	79	
13	ARPAIT CIS	POGO	51	51	200	75	15	1	382,143	91,714	473,857	7,493	23	76	
14	AYAGAN ESTE CIS	LUNA	87	80	192	116	25	3	418,035	207,576	625,611	4,895	22	74	
15	SAN FELIPE CIS	SAN JUAN	184	107	158	210	30	2	142,000	34,050	176,050	172	17	67	
16	UPPER CABARAN CIS	BACOTOPAN	217	94	143	230	23	2	383,000	81,120	450,120	1,673	13	61	
17	LOWER SALINOG CIS	BACOTOPAN	198	80	140	250	28	2	404,000	129,200	533,200	2,040	13	60	
PROVINCE TOTAL (AVERAGE)															
			2,085	1,458	(170)	2,504	487	42	8,529,303	2,437,062	10,966,365	( 4,991)			
** PROVINCE : BENGUET **															
1	PANAL CIS	ATOK	82	82	200	50	1	1	1,242,000	298,080	1,540,080	15,146	21	68	
PROVINCE TOTAL (AVERAGE)															
			82	82	(200)	50	1	3	1,242,000	298,080	1,540,080	( 15,146)			
** PROVINCE : PARAGUARIAN **															
1	CARAYUGAN SUB CIS	UNINGAN	95	9	109	47	36	6	90,000	21,600	111,600	947	41	82	
2	NAKA-TINDAH-SUCONG CIS	SISON	119	119	300	553	40	16	918,500	228,440	1,138,940	9,718	32	79	
PROVINCE TOTAL (AVERAGE)															
			214	128	(160)	600	76	22	1,008,500	242,040	1,250,540	( 4,713)			
REGION TOTAL (AVERAGE)															
			4,450	3,228	(122)	5,051	716	146	29,823,174	8,477,468	38,300,642	( 5,702)			

REMARK : \* : Rehabilitation is necessary. -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (3/17)

REGION NO. : 11

PAGE 3

NO.	NAME OF C.I.S.	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	NOS. OF FARMERS BENEFICIARIES (Nos.)	LENGTH OF DISTERSION CANALS (m)	LENGTH OF MAIN/ATERIAL CANALS (km)	CHARGEABLE COST (Peso)	ROB-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	ERR (%)	PRIORITY ZONATION	FUND SOURCE				
																PROVINCE			
<b>** PROVINCE : CAGAYAN **</b>																			
1	ALCANTARA ESTE CIS	BOCEY	260	232	197	117	21 *	5 *	3,781,559	907,572	4,689,122	14,544	49	89					
2	BADONGAN CIS	GATTARAN	123	84	168	70	120 *	3 *	1,551,044	467,651	2,028,695	12,691	24	82					
3	VESTIADOR CIS	STA. ANA	480	480	200	200	0 *	17 *	5,175,150	2,559,540	7,734,690	30,782	43	77					
4	MISSION CIS	STA. TERESITA	186	85	146	72	57 *	7 *	4,652,789	1,116,908	5,770,697	25,020	13	74	CRP-IC				
5	SUSTEN CIS	SARCEL NIBA	90	80	200	45	4 *	3 *	526,442	1,324,136	1,850,578	6,581	17	63					
PROVINCE TOTAL (AVERAGE)									1,129	981	(187)	534	212	35	15,697,969	6,376,607	22,074,576	(13,904)	
<b>** PROVINCE : ISABELA **</b>																			
1	MASIPU WEST CIS	CABIGUAN	160	160	200	110	0	3 *	225,139	54,104	279,243	1,409	39	83					
PROVINCE TOTAL (AVERAGE)									160	160	(200)	110	0	3	225,132	54,104	279,236	(1,409)	
<b>** PROVINCE : ILOCOS **</b>																			
1	ROBODONG CIS	ETANGAN	280	280	200	50	0	14 *	676,000	166,000	842,000	2,411	47	98					
2	PAN OPOBAN CIS	LAMOT	140	140	200	189	45	7 *	130,800	31,200	161,200	929	39	81					
3	POLITANG-TANG-IL CIS	ETANGAN	50	45	190	35	0 *	416,800	99,792	516,592	9,316	25	81						
4	MUNTON-OC-LOGAR CIS	BUCODAN	60	50	180	200	7	4 *	176,250	42,200	218,450	2,938	12	81					
5	BONGORERA CIS	BONGORAN	65	60	192	250	7	5 *	460,500	110,420	571,020	7,085	13	61					
PROVINCE TOTAL (AVERAGE)									595	575	(197)	724	59	36	1,857,559	465,812	2,302,362	(3,122)	
<b>** PROVINCE : BUENA VISTA **</b>																			
1	IBONG CIS	VILLAVEQUE	153	153	200	--	8 *	2 *	116,250	131,808	247,938	760	39	95					
2	DUMAYUP CIS	BAGABAG	97	97	300	7	14	4 *	280,118	61,228	347,344	2,888	38	90					
3	GANNIB-CARAITAN CIS	VILLAVEQUE	58	58	200	--	26 *	4 *	930,000	223,208	1,153,208	15,034	16	86					
4	BOLENGO CIS	QUEZON	73	73	200	--	31	3 *	811,338	510,860	1,322,127	11,114	34	85					
5	STA. CRUZ-CABED CIS	BAGABAG	177	177	200	--	26 *	7 *	2,325,000	725,714	3,050,714	13,136	41	84					
6	I-IYO CIS	DUPAX DEL SUR	238	238	200	--	16 *	8 *	176,560	273,494	452,054	750	48	83					
7	CALAO-LUBERAN CIS	VILLAVEQUE	110	110	200	--	8 *	3 *	404,550	97,022	501,642	3,628	37	83					
8	CASIBAGSAR CIS	ARIFAO	105	105	200	--	14 *	3 *	107,880	256,531	364,411	1,027	35	83					
9	DARAO CIS	BAYANSONG	66	66	200	--	13 *	5 *	320,708	79,370	410,078	3,011	36	83					
10	TACAO-ARAYAN CIS	DUPAX DEL NORTE	199	199	200	--	50 *	13 *	210,180	56,443	266,623	1,056	39	81					
11	RAGBIEIR CIS	VILLAVEQUE	167	167	200	--	14 *	3 *	9,319,390	795,262	4,108,652	19,842	33	81					
12	BARTIAN-NUANCAT CIS	QUEZON	95	95	200	70	14 *	7 *	279,000	66,960	345,960	2,937	33	77					
PROVINCE TOTAL (AVERAGE)									1,538	1,538	(300)	77	284	62	9,281,166	3,107,162	12,591,328	(6,038)	
<b>** PROVINCE : QUEZON **</b>																			
1	MARIA CLARA CIS	DUPHUR	80	80	200	32	12 *	0 *	1,862,950	447,108	2,310,058	23,287	35	92	CRP-IC				

Reverse \* : Rehabilitation is necessary. -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (4/17)

REGION NO. : 11

PAGE 4

NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)		DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)		CROPPING INTENSITY (%)	NOS. OF FARMERS BENEFICIARIES (Nos.)	LENGTH OF DIVERSION DAM (*)	LENGTH OF MAIN/FEEDL CANALS (km)	LENGTH OF CHARGEABLE COST	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	EIRR (%)	YARDS OF PRODUCTION	YRDS SOURCE
			155	108	170	65											
** PROVINCE : QUINERO **																	
2	CARACUM-DUMALATA CIS	MADDELA	65	65	200	15	0	0	0	0	358,000	135,520	493,520	5,500	42	94	94
3	ARGASPER CIS	DIFPUN	120	120	200	21	0	0	0	285,000	68,540	354,540	2,983	47	92	92	92
4	CAMPAMENTO CIS	MADDELA	60	60	200	21	15	15	7	6	668,400	160,816	828,816	11,140	65	82	82
5	DUMALATONO CIS	MADDELA	480	433	190	154	27	21	21	3,750,063	978,135	4,728,198	7,813				
PROVINCE TOTAL (AVERAGE)																	
REGION TOTAL (AVERAGE)			3,902	3,687	1,941	1,599	562	158	158	30,818,180	11,151,020	41,979,200	7,898				

REMARK \* : Rehabilitation is necessary. -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (5/17)

SECTION NO. : 111

PAGE 5

NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA		CROPPING INTENSITY (%)	NO. OF PARKERS PARTICIPANTES	LENGTH OF DIVERSION MAIN/ATERIAL CARBLS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	BARRS PER KILOM	FUND SOURCE
			IRWET SEASON (ha)	IRDRY SEASON (ha)									
** PROVINCE : BUENA VISTA **													
1	IBASAG CIS	GABALDON	226	226	200	--	4	1,900,036	155,009	2,355,045	8,407	57	CIDP 11
2	PASARG-SUGHAN CIS	GABALDON	137	137	200	50	6	1,010,653	242,551	1,253,210	7,377	16	
PROVINCE TOTAL (AVERAGE)													
			363	363	(200)	50	10	2,910,689	698,566	3,609,255	( 8,018)		
** PROVINCE : TARLAC **													
1	STO. ROSARIO CIS	CONCEPCION	200	200	200	112	6	135,000	205,600	390,600	925	55	77
2	CALBAGOR CIS	CONCEPCION	114	114	200	41	3	166,000	44,640	230,640	1,632	33	77
3	MAGAO CIS	CONCEPCION	468	468	200	167	12	1,113,579	2,747,259	3,860,838	2,379	38	75
4	TEGARANGA CIS	CONCEPCION	328	328	200	132	15	935,000	321,600	1,259,600	2,851	34	75
5	SAN MARTIN CIS	CONCEPCION	230	230	200	83	10	361,500	2,568,300	2,935,700	1,598	12	53
PROVINCE TOTAL (AVERAGE)													
			1,340	1,340	(200)	535	47	2,787,079	5,889,299	8,676,378	( 2,080)		
SECTION TOTAL (AVERAGE)													
			1,703	1,703	(200)	585	56	5,687,768	6,587,865	12,285,633	( 3,346)		

REMARK \* : Rehabilitation is necessary. -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (6/17)

SECTION NO. : IV

PAGE 5

NO.	NAME OF C I S	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY	NOS. OF FARMERS	LENGTH OF DIVISION DAM	LENGTH OF CANALS	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	MAZES IN PRIORITY ZONE (%)	FIXED SOURCE
<b>** PROVINCE : ABOGADA **</b>														
1	ABOLICION CIS	BAKER	300	259	186	200	35 *	3 *	2,718,500	681,030	3,429,530	9,162	55	92
2	TALAYAY CIS	291	291	200	200	180	70 *	7 *	822,835	149,432	772,087	2,140	50	90
3	MARGUITAR CIS	500	500	300	255	35 *	3 *	7,245,900	1,014,375	9,020,875	15,112	29	77	
PROVINCE TOTAL (AVERAGE)														
			1,091	1,050	(196)	555	140	13	10,577,935	2,645,438	13,222,973	( 9,595)		
<b>** PROVINCE : QUEZON **</b>														
1	PELI-TUMBAGA CIS	121	121	200	111	10 *	6 *	335,000	80,400	415,400	2,769	26.4	77	
PROVINCE TOTAL (AVERAGE)														
			121	121	(200)	111	10	6	335,000	80,400	415,400	( 2,769)		
<b>** PROVINCE : MARICORQUE **</b>														
1	MALEOG CIS	130	117	196	123	14	5 *	625,000	150,000	775,000	6,806	36	92	
2	LADY - BALUIS CIS	60	30	150	120	12	1 *	380,000	91,200	471,200	5,333	12	58	
PROVINCE TOTAL (AVERAGE)														
			190	147	(177)	243	26	7	1,005,000	241,200	1,246,200	( 5,289)		
<b>** PROVINCE : MINDORO ORIENTAL **</b>														
1	KANANGAL CIS	73	73	200	93	10	5 *	69,000	16,320	84,320	932	34	81	
2	MALETOG CIS	160	160	200	100	0 *	4 *	1,445,320	346,877	1,792,197	9,033	42	79	
3	CALANORINGAN CIS	280	200	200	119	12	6 *	1,468,435	352,424	1,820,859	7,342	40	75	
4	BARUTAN CIS	234	234	200	60	0	12 *	1,608,000	385,320	1,993,320	6,872	30	75	
5	MAYABIG CIS	242	242	200	85	0 *	7 *	4,322,158	1,027,318	5,359,476	17,860	17	63	
PROVINCE TOTAL (AVERAGE)														
			909	909	(200)	457	32	32	8,911,913	2,139,959	11,050,772	( 9,804)		
<b>** PROVINCE : ROMBLON **</b>														
1	BAZAR CIS	70	55	179	53	0	3 *	400,000	158,000	558,000	5,714	29	77	
PROVINCE TOTAL (AVERAGE)														
			70	55	(179)	53	0	3	400,000	158,000	558,000	( 5,714)		
<b>** PROVINCE : PALAWAN **</b>														
1	BULOT CIS	400	400	200	72	800	10 *	1,592,320	382,157	1,974,477	3,981	34	89	
2	BATO-BATO CIS	200	31	116	48	9 *	6 *	5,018,312	2,551,065	8,559,377	30,092	12	70	CARP-10
PROVINCE TOTAL (AVERAGE)														
			600	431	(172)	120	16	16	7,610,632	2,933,222	10,543,854	( 12,664)		
<b>SECTION TOTAL (AVERAGE)</b>														
			2,991	2,713	(191)	1,539	1,007	77	28,839,560	8,197,219	37,036,779	( 9,674)		

NOTE : \* - Commutation is necessary. --- : Data not available.

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (7/17)

REGION NO. : 7

PAGE 7

NO.	NAME OF CIS	MUNE OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	BENEFICIARIES (Nos.)	LENGTH OF DIVISION (km)	LENGTH OF MAIN/ATERIAL CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	EMERGENCY FUND	PRIORITY-YAYON	FUND SOURCE
** PROVINCE : CAMARINES NORTE **															
1	MAGSAYAB CIS		53	47	189	--	10	3	400,000	96,000	496,000	7,547	35	100	CRDP-IC
2	CANGSAB-MALAKI CIS		85	46	154	52	28	4	1,391,000	466,520	1,857,520	16,365	25	94	
3	KALAGONG CIS		143	130	191	--	25	9	1,139,700	287,928	1,427,628	9,390	53	93	
4	TIRIBID CIS		57	57	200	--	25	6	1,880,000	637,200	2,517,200	32,382	24	92	
5	MARUCOGAN CIS		85	75	188	--	18	7	713,000	171,120	884,120	8,388	22	89	
6	CALAMBISON CIS		90	85	194	--	15	4	1,120,000	288,800	1,388,800	12,444	36	88	
7	MTRASIG CIS		67	67	200	30	23	3	1,050,000	252,000	1,302,000	15,672	35	86	
8	BACICAY CIS		53	45	185	46	25	6	511,500	122,760	634,260	9,651	38	80	
PROVINCE TOTAL (AVERAGE)															
			633	552	(187)	128	169	43	8,265,200	2,302,328	10,567,528	( 13,057)			
** PROVINCE : CAMARINES SUR **															
1	POLOSOG CIS		80	80	200	100	28	2	625,000	152,400	787,400	7,813	25	97	
2	MARGARA CIS		100	100	280	150	12	2	1,210,000	354,800	1,564,800	12,100	55	96	
3	BEGOG-PAGITAY CIS		70	70	200	100	5	0	747,500	266,200	1,013,700	10,679	47	95	
4	CALMA CIS		84	84	200	21	18	2	605,000	145,200	750,200	7,262	35	90	
5	POBOD-MINGAS CIS		100	100	200	200	4	4	385,000	73,200	458,200	3,059	43	93	
6	ULARIBAS CIS		74	74	200	50	14	2	281,000	68,160	352,160	3,528	34	82	
7	MARAS CIS		300	300	200	200	38	4	1,315,000	315,600	1,630,600	4,383	27	81	
8	CORP 41 CIS		150	150	200	250	8	1	815,000	195,600	1,010,600	5,433	52	81	
9	BALIGUOR CIS		150	150	200	150	10	2	562,500	135,000	697,500	3,750	28	81	
10	SIEMBE-BORROR CIS		300	300	200	130	70	2	205,000	81,600	286,600	663	37	79	
11	MASUO CIS		150	150	200	70	38	0	500,000	120,000	620,000	3,333	27	79	
12	PIANTAL CIS		100	100	200	93	2	0	521,000	497,040	1,018,040	5,210	42	79	
13	SAN PEDRO CIS		100	100	200	150	3	3	182,500	86,600	269,100	1,025	36	79	
14	CARAYIBAN CIS		100	150	250	45	10	3	625,000	212,000	837,000	6,250	33	75	
15	BALLESTER CIS		120	120	200	40	1	2	2,457,500	651,800	3,109,300	26,479	21	65	
16	DARAGA CIS		130	130	177	99	18	3	861,000	286,640	1,147,640	6,623	12	58	
17	PERIT CIS		120	120	200	89	18	0	2,000,000	1,720,000	3,720,000	16,667	14	57	
18	IBAYA CIS		100	100	200	120	28	2	3,485,000	936,400	4,421,400	34,550	11	56	
PROVINCE TOTAL (AVERAGE)															
			2,328	2,318	(201)	2,958	362	36	17,226,000	6,118,240	23,344,240	( 7,999)			
** PROVINCE : CATABUJAN **															
1	PANGHIBAN CIS		200	200	200	576	0	5	6,329,350	1,519,044	7,848,394	31,617	13	62	
PROVINCE TOTAL (AVERAGE)															
			200	200	(200)	576	0	5	6,329,350	1,519,044	7,848,394	( 31,617)			
** PROVINCE : SOCSOGON **															
1	INGADIAN CIS		235	37	116	73	8	6	821,980	197,955	1,021,935	3,506	34	96	

\*\* : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (8/17)

REGION NO. : V

PAGE 8

NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA		CROPPING INTENSITY (%)	HOS. OF FARMERS	BENEFICIARIES (Nos.)	DIVISION	LENGTH OF MAIN/ATERIAL CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	SIZE (ha)	RANKS IN PRIORITY-LIST	FUND SOURCE	
			IN WET SEASON (ha)	IN DRY SEASON (ha)													
** PROVINCE : SORSOGON **																	
2	LACTIN CIS	CASIGUAN	165	92	156	250	17 *	6 *	730,500	175,320	905,820	4,427	27	85			
3	TIGSAO CIS	CASIGUAN	178	55	131	60	12 *	4 *	1,716,366	411,928	2,128,294	9,613	20	83			
4	CALAGOTO CIS	BARCELONA	110	110	200	278	23 *	5 *	755,160	363,078	1,138,238	6,865	13	61			
5	TAGORON CIS	BARCELONA	206	184	190	189	21 *	6 *	2,307,089	1,658,053	3,965,142	11,290	13	61			
PROVINCE TOTAL (AVERAGE)			892	478	(154)	850	83	28	6,329,095	2,826,104	9,155,199	( 7,095 )					
** PROVINCE : MASBATE **																	
1	BATHILA CIS	BALENO	304	95	191	21	10 *	2 *	400,000	96,000	496,000	3,816	33	92			
2	SOMAS CIS	ROBO	65	50	177	16	8 *	2 *	360,000	86,400	446,400	5,538	30	90			
3	VITO CIS	SAN FERNANDO	200	160	180	120	0 *	3 *	6,212,400	1,490,976	7,703,376	31,082	24	90			
4	BORON CIS	MILAGROS	50	25	150	40	13 *	3 *	330,000	79,200	409,200	6,600	16	69			
PROVINCE TOTAL (AVERAGE)			619	330	(179)	200	31	11	7,302,400	1,752,576	9,054,976	( 17,428 )					
REGION TOTAL (AVERAGE)			4,472	3,908	(187)	4,712	645	123	45,452,045	14,518,292	59,970,337	( 18,164 )					

REMARK : \* : Rehabilitation is necessary. -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (9/17)

REGION 80. : 91

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NO.	NAME OF C I S	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA		CROPPING INTENSITY (%)	HOS. OF FARMERS BENEFICIES	LENGTH OF DIVISION		CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	BARRS PER KILOMETER	BARRS PER KILOMETER	FUND SOURCE
			(ha)	(ha)			(a)	(km)							
** PROVINCE : MALAB **															
1	BULABOD CIS		161	161	200	156	16 *	6	300,000	72,000	372,000	1,863	33		96
2	MALAY CIS		50	50	200	271	25 *	1	500,000	120,000	620,000	10,000	49		94
3	LILONG - MALANDAY CIS		292	292	200	431	35 *	7 *	1,165,500	279,720	1,445,220	3,991	34		87
4	TANGALAN CIS		223	223	200	431	35 *	10 *	662,500	159,000	821,500	2,371	29		81
PROVINCE TOTAL (AVERAGE)			726	726	(200)	911	111	24	2,620,000	630,720	3,250,720	( 3,520)			
** PROVINCE : ANTIQUE **															
1	SITADOR CIS		176	176	200	106	24 *	7 *	2,673,750	611,700	3,315,450	15,192	33		88
2	CASIT-AR CIS		114	114	200	290	0 *	6 *	511,500	122,760	634,260	4,487	52		85
3	TIGAMALE CIS		57	57	200	55	16 *	3 *	630,804	156,194	806,997	11,416	36		81
4	SEBASTE-IPAYO CIS		114	114	200	128	20 *	5 *	883,500	212,040	1,095,540	7,150	33		87
5	CARACHIAN CIS		337	337	200	198	52 *	8 *	1,300,000	312,000	1,612,000	3,958	34		79
6	CULASI CIS		225	225	200	226	52 *	7 *	1,590,000	285,600	1,875,600	5,289	39		79
7	TIBLAD CIS		130	130	200	105	0 *	6 *	874,200	786,400	1,660,600	6,725	26		79
8	BUCO CIS		105	105	200	73	56 *	4 *	350,000	84,000	434,000	3,333	59		79
9	CABUGAU CIS		68	68	200	65	7 *	2 *	231,360	56,246	290,606	3,416	69		79
10	BANTIC CIS		70	70	200	50	5	2 *	455,000	111,600	576,600	6,643	31		79
11	FRAGRTE CIS		144	144	193	94	17	2 *	153,450	36,828	190,278	1,056	24		78
12	VALDEGRANA CIS		150	150	200	145	0	6 *	418,500	100,440	518,940	2,790	24		75
13	CAIBARAN-ERIZO CIS		75	75	200	54	0 *	1 *	279,000	66,960	345,960	3,720	24		75
14	DAO CIS		130	130	200	96	28	3 *	604,500	145,000	749,500	4,650	23		74
15	BANTIC CIS		80	80	200	97	38	4 *	460,350	214,272	674,622	5,154	13		61
16	PANGANTA CIS		162	162	200	130	18 *	7 *	2,668,000	592,512	3,061,512	15,240	10		56
PROVINCE TOTAL (AVERAGE)			2,137	2,127	(200)	1,912	333	74	13,517,714	3,924,639	17,442,353	( 6,286)			
** PROVINCE : ILOILO **															
1	SAYURAN CIS		220	110	150	137	26 *	4 *	2,928,000	835,720	3,763,720	13,310	36		100
2	DELA ZAL CIS		89	59	166	45	13 *	4 *	689,000	165,000	854,000	7,742	41		88
3	IGBARAS CIS		250	170	168	300	1 *	9 *	3,199,200	767,828	3,967,111	12,797	26		82
4	BATERGWAY CIS		80	80	200	96	1 *	2	81,700	20,088	103,788	1,046	59		81
5	KARAPAL CIS		83	83	200	53	1 *	5 *	818,512	196,413	1,014,925	9,862	19		66
PROVINCE TOTAL (AVERAGE)			722	502	(170)	631	49	25	7,116,495	1,976,079	9,092,574	( 10,690)			
REGION TOTAL (AVERAGE)			3,595	3,355	(194)	3,454	487	122	23,864,209	6,531,438	30,395,647	( 6,657)			

REMARKS \* : Rehabilitation is necessary. -- : Data not available



GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (10/17)

REGION NO.: VII

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NO.	NAME OF C I S	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA		CROPPING INTENSITY (%)	MOS. OF PARKERS BENEFICIARIES	DIVERSION MAIN/ATERAL CANALS	LENGTH OF DIVERSION (km)	IRRIGABLE COST		TOTAL COST (Peso)	CHANGEABLE COST		MARKS IN PRIORITY-ANTION
			IN WET SEASON (ha)	IN DRY SEASON (ha)					NON-CHANGEABLE COST (Peso)	CHANGEABLE COST (Peso/ha)				
** PROVINCE : CEBU **														
1	MANTORAN CIS		170	161	186	104	8	0 *	153,157	36,758	189,915	901	39	94
2	OWAE-SAN ISIDRO CIS	ASTORIAS AND BALAMBAN	480	480	200	219	80	0 *	3,790,975	1,146,261	4,937,236	7,898	34	85
3	ARGAO CIS		110	110	200	193	26 *	1 *	800,153	192,037	992,190	7,274	29	83
4	TAG-AKABH CIS	ASTORIAS	51	51	200	65	80 *	2 *	1,561,000	1,024,000	2,585,000	30,667	20	75
PROVINCE TOTAL (AVERAGE)			811	805	(199)	581	194	22	6,308,285	2,399,056	8,707,341	( 7,776)		
** PROVINCE : NEGROS OCCIDENTAL **														
1	MARIYAT CIS	MARIYAT	70	46	166	78	0 *	9 *	806,000	328,400	1,134,400	11,429	47	96
2	CANDAY-BATINGUEL CIS	DUMAGUETE	300	300	200	280	20 *	13 *	901,640	216,394	1,118,034	3,005	31	94
3	FATIMA LICO-LICO CIS	SIAYON	380	380	145	122	15	6 *	1,257,788	391,659	1,649,447	5,988	47	94
4	LUCA-SAN ISIDRO CIS	TARAY	310	244	179	90	30 *	10 *	678,908	185,086	864,994	2,190	26	88
5	MALABOGS CIS	BAVAMAN	120	81	168	113	10	5 *	100,000	24,000	124,000	833	33	81
6	TABOG CIS	AYUDON	55	35	164	1	2 *	2 *	190,000	60,800	250,800	2,727	32	81
7	TAROLAN CIS	TAYASAN	75	70	183	42	0 *	4 *	250,000	310,000	500,000	3,333	36	81
8	TAGAYAT CIS	BIROD	50	50	170	45	0 *	3	200,000	48,000	248,000	4,000	26	79
9	PANBULIG CIS	CARLA-OW	50	50	200	25	25 *	2 *	400,000	114,600	514,600	8,000	34	79
10	STA. CATALINA CIS	STA. CATALINA	450	459	200	290	20 *	10 *	2,251,100	540,984	2,792,084	5,009	29	77
11	GINDARA-AT GOMENTOC CIS	AYUDON	85	85	200	42	12 *	6 *	150,000	36,000	186,000	1,765	39	75
12	ASOTOS CIS	TARAY	60	60	200	70	5 *	5 *	1,400,000	350,800	1,750,800	23,333	11	57
13	MASUGO CIS	CARLA-OW	130	130	200	52	20 *	5 *	1,560,000	326,400	1,886,400	10,462	10	64
PROVINCE TOTAL (AVERAGE)			1,935	1,667	(186)	1,170	159	79	9,902,628	2,694,247	12,596,875	( 5,118)		
** PROVINCE : BOROL **														
1	MINDA - SAN ISIDRO CIS	DUERO	230	230	200	710	22	11 *	1,335,500	301,320	1,636,820	5,459	35	81
2	BUGSOC INTEGRATED CIS	SIKRA-BELLORES	280	280	200	--	147 *	11 *	4,464,000	2,801,160	7,265,160	15,943	25	78
3	LILIHAN CIS	IBANGA	142	142	200	200	9 *	6 *	2,604,000	970,920	3,574,920	18,338	23	76
4	KARANGH - CARIGUAN CIS	CARDIAY A GUBEMJAH	170	170	200	305	29 *	4 *	2,230,000	540,000	2,770,000	13,245	22	74
5	SAN AGUSTIN CIS	TALON	120	120	200	155	25 *	8 *	1,674,000	401,760	2,075,760	11,950	13	61
PROVINCE TOTAL (AVERAGE)			942	942	(200)	1,370	232	41	12,247,500	5,015,160	17,262,660	( 13,002)		
REGION TOTAL (AVERAGE)			3,658	3,414	(193)	3,121	585	142	28,458,513	10,018,163	38,476,676	( 7,716)		

REMARKS \* : Rehabilitation is necessary. -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (11/17)

REGION NO. : VIII

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NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA		CROPPING INTENSITY (%)	NOS. OF FARMERS BENEFICIARIES	LENGTH OF DIVISION		CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	MARKS TO FACILITATE ZATTON	SOURCE
			(ha)	(ha)			(#)	(km)						
** PROVINCE : SAMAER **														
1	CALAPI CIS	MOTILLO	270	270	200	192	0 *	7 *	791,800	438,032	1,229,832	2,533	34	96
2	TABACAN	PANAMA	65	65	200	46	2 *	2 *	105,000	25,200	130,200	1,615	28	96
3	TUTUCAN CIS	WRIGHT	110	110	200	25	4 *	4 *	417,750	100,260	518,010	3,798	34	88
4	CANAROD-IN CIS	TIBONG	120	50	142	51	7 *	7 *	794,750	190,740	985,490	6,623	27	85
5	LOOG	BISEY	60	60	200	63	2 *	2 *	52,500	12,600	65,100	875	29	81
6	SAN JOSE CIS (LA FAL CIS)	SAN JOSE	150	150	200	70	18 *	5 *	483,500	1,110,440	1,603,940	3,230	41	77
7	PAGSABOGOR	STA. RITA	74	74	200	54	5 *	40 *	664,750	159,540	824,290	8,983	24	76
8	DARJO-1 CIS	CABAYOG CITY	125	46	137	80	32 *	3 *	605,800	517,200	1,122,200	4,840	16 *	68
9	PANREAN CIP	STA. MARCELITA	75	46	161	47	15 *	10 *	1,020,000	492,800	1,512,800	13,600	16	63
PROVINCE TOTAL (AVERAGE)			1,949	871	(183)	628	106	76	4,945,050	3,046,812	7,991,862	( 5,714)		

\*\* PROVINCE : NORTHERN LETTE \*\*

1	TABUOK CIS	PALORON	215	215	200	212	9	3 *	948,000	227,520	1,175,520	4,409	34	98
2	MACHA CIS	LETTE	448	448	200	360	60 *	11 *	7,812,200	1,031,200	8,843,400	15,652	40	98
3	SURE CIS	TACLOBAN	56	56	200	35	15 *	2 *	1,670,000	480,800	2,070,800	29,821	34	94
4	DANGLANS CIS	ALBUERA	75	75	200	32	5 *	1 *	1,830,000	682,400	2,492,400	25,200	36	94
5	CAYON CIS	BAVAL	127	39	131	30	12	6 *	566,000	135,840	707,840	4,457	36	92
6	MARAPAG CIS	MARANLANG	50	39	178	20	0 *	1 *	1,120,000	258,800	1,388,800	22,400	34	92
7	ALIK CIS	BATEAY	300	194	185	108	12 *	6 *	3,122,500	749,400	3,871,900	18,408	40	92
8	TABAS CIS	ALBUERA	80	80	200	32	8 *	2 *	910,000	218,400	1,128,400	11,375	51	92
9	KAPATAGAN CIS	ALBUERIA	80	80	200	12	4 *	1 *	1,460,000	355,200	1,835,200	18,500	40	92
10	IBANGARAN CIS	TABANCO	120	120	200	165	18 *	5 *	3,447,394	827,375	4,274,769	28,728	28	91
11	DAJA DIOT CIS	SAB ISIGRO	100	100	200	120	12 *	6 *	2,745,170	658,841	3,404,011	21,452	32	91
12	CALAMIS CIS	CALIBRAN	100	100	200	31	15 *	4 *	2,199,450	527,668	2,727,118	21,995	37	90
13	HALJO CIS	IBOPAGAN	120	116	197	96	10 *	2 *	370,000	88,800	458,800	3,883	27	89
14	JANGKAYON CIS	ALBUERIA	130	149	163	21	20 *	6 *	4,013,311	963,195	4,976,506	22,235	29	88
15	CARAY-CARAY CIS	BAVAL	130	130	200	177	50 *	2 *	2,084,000	796,520	2,880,520	16,031	34	88
16	SUGOD CIS	CALIGARA	360	360	200	99	17 *	7 *	6,138,000	1,588,440	7,726,440	17,050	42	88
17	TABUOK CIS	ALBUEROS	370	370	200	284	45	15 *	1,168,000	278,400	1,456,400	3,435	27	81
18	BUBABOD CIS	ALANGLANG	68	39	157	73	16 *	4 *	1,700,000	468,000	2,168,000	25,000	20	86
19	MAYTO CIS	LAYANGAN	120	120	200	165	12 *	6 *	3,118,402	718,416	3,866,818	25,387	25	85
20	MATING-OS CIS	MATING-OB	150	150	200	98	9 *	3 *	947,000	692,914	1,349,914	6,313	55	84
21	PALANAS CIS	ALBUERA	77	77	200	72	3 *	2 *	589,000	132,080	721,080	6,614	57	84
22	CAPITARAN CIS	BAVAL	500	99	129	250	20 *	4 *	4,759,000	1,142,160	5,901,160	9,518	20	84
23	TIGRONS CIS	IBANGA	250	250	200	211	20 *	4 *	411,000	98,540	509,540	1,644	42	81
24	ABANGA CIS	PALORON	105	105	200	277	36 *	4 *	1,890,000	453,600	2,343,600	18,000	29	81
25	BIRAN CIS	CALIGARA	120	120	200	192	40 *	2 *	1,395,000	324,800	1,729,800	11,625	37	81
26	BACILLIT CIS	CALIGARA	300	300	200	393	13 *	1 *	2,659,800	753,872	3,413,672	8,866	45	81
27	CACALCO CIS	CALIGARA	125	125	200	175	17 *	1 *	670,000	408,600	1,078,600	5,360	26	81

\* : Rehabilitation is necessary. -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (12/17)

REGION NO. : VIII

PAGE 12

NO.	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN YET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	NOS. OF FARMERS BENEFICIARIES	DIVERSION DAN	LENGTH OF DIVERSION CANALS (km)	LENGTH OF MAIN/ATERIAL CANALS (km)	CHANGABLE COST (Peso)	NON-CHANGABLE COST (Peso)	TOTAL COST (Peso)	CHANGABLE COST PER AREA (Peso/ha)	EIRR (%)	RATES IN PRIORITY ZATION (%)	FUND SOURCE
** PROVINCE : NORTHERN LEYTE **															
26	GOVERNOR JARD CIS	400	276	169	83	12 *	5 *	960,000	200,100	1,160,100	2,400	22	80		
29	MAYAG-OB CIS	300	300	200	47	50 *	6 *	2,600,000	643,200	3,243,200	8,932	41	79		
30	MAGAHAB CIS	80	80	200	70	7 *	4 *	1,420,000	340,800	1,760,800	17,159	25	79		
31	BUCAYLISTA CIS	473	300	163	110	40 *	6 *	1,742,100	438,104	2,180,204	3,652	20	78	1649	
32	BITULANGAR CIS	162	162	200	117	8 *	6 *	846,000	203,940	1,049,940	5,222	34	77		
33	MAYAGAO CIS	80	80	200	35	0 *	1 *	1,030,000	247,200	1,277,200	12,575	34	77		
34	SAN ERDUS II CIS	65	39	146	3	8 *	1 *	482,500	111,000	593,500	5,441	16	76		
35	CALINGOG CIS	100	100	200	145	6 *	4 *	1,819,233	471,212	2,290,445	18,192	22	76		
36	BABAYONG CIS	85	59	169	43	8 *	3 *	2,064,250	495,420	2,559,670	24,285	21	76		
37	LISO CIS	50	50	200	65	15 *	1 *	800,000	316,000	1,116,000	16,000	23	75		
38	TAGBUS CIS	100	39	139	56	10 *	1 *	399,900	2,402,276	2,802,176	3,999	15	71		
39	STA. FE CIS	162	162	200	161	80 *	3 *	2,164,500	827,120	3,266,620	15,213	13	65		
40	SALACTAS CIS	106	106	200	91	20 *	2 *	542,000	130,000	672,000	5,113	17	65		
41	SUGAVER CIS	450	150	133	150	15 *	1 *	650,000	200,000	850,000	1,444	18	62		
42	LOSAR CIS	120	39	133	75	3 *	2 *	1,255,000	301,200	1,556,200	10,458	10	58		
43	MASLOG CIS	120	120	200	32	4 *	5 *	2,192,940	756,946	2,949,886	18,275	15	57		
44	TIMAG-AN CIS	70	70	200	80	20 *	3 *	2,295,000	529,200	2,824,200	31,500	10	56		
45	CALAMPANG CIS	100	100	200	90	0 *	6 *	2,460,000	999,600	3,459,600	24,600	11	55		
PROVINCE TOTAL (AVERAGE)		7,769	6,288	(181)	5,224	784	175	84,328,650	24,299,979	109,228,629	(10,932)				
** PROVINCE : SOUTHERN LEYTE **															
1	HEINGAYANGAN CIS	54	54	200	74	0 *	5 *	1,481,397	561,036	2,042,433	27,433	26	96		
2	HEINGAYANGAN-SALVADOR CIS	54	54	200	100	10 *	4 *	969,218	232,812	1,201,830	17,948	37	96	CIOP II	
3	BUC CIS	350	350	200	192	48 *	6 *	2,100,703	564,366	2,665,069	6,002	26	86		
4	SADOR-CIS	137	137	200	223	30 *	4 *	2,659,691	876,868	4,536,559	26,669	24	82	1740	
5	TABDIS CIS	170	150	188	118	25 *	7 *	3,355,533	805,328	4,160,861	19,738	20	70	1740	
6	HEAY-TIRAN CIS	106	100	200	142	0 *	3 *	2,484,039	539,219	3,023,258	24,845	18	69		
7	CAYOG CIS	116	116	200	110	30 *	7 *	3,830,100	943,243	4,773,343	31,881	12	59	CIOP-TC	
8	LANSARAO SABARE CIS	65	65	200	55	0 *	7 *	1,993,132	478,952	2,472,084	30,310	13	58		
PROVINCE TOTAL (AVERAGE)		1,016	1,026	(198)	1,014	143	46	19,350,449	5,955,702	25,016,151	(19,051)				
REGION TOTAL (AVERAGE)		9,864	8,195	(183)	6,866	1,033	296	109,632,049	34,402,693	142,234,742	(11,155)				

REMARK : \* : Rehabilitation is necessary. \*\* : Data not available.

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (13/17)

SECTION NO. : 11

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NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA		CROPPING INTENSITY	BENEFICIARIES	LENGTH OF DIVERSION		CANALS	CHARGEABLE COST	NON-CHARGEABLE COST		TOTAL COST	CHARGEABLE COST PER AREA	EIR (%)	PRIORITY-RANKING	FUND SOURCE
			(ha)	(ha)			(%)	(m)			(m)	(Peso)					
** PROVINCE : ZAMBANGA DEL NORTE **																	
1	LOWER MALAGA CIS	POLARCO	138	138	200	56	0 *	4 *	1,285,190	310,918	1,606,408	9,368	40	94			
2	SINOTAI CIS I	KATIPUBAN	59	69	200	28	8 *	3 *	1,038,485	249,236	1,287,721	15,051	54	94			
3	BATAVAN CIS I	LABASON	214	214	200	70	30	6 *	1,074,615	251,908	1,326,523	5,022	43	87			
4	LAPAYAN BAJA CIS	POLARCO	187	187	200	185	34 *	13 *	2,343,442	1,085,255	3,348,697	12,532	36	85			
5	SINOCAN CIS	SINOCAN	480	480	200	200	0	11 *	1,550,310	372,044	1,922,354	3,230	45	81			
6	LABASON CIS	LABASON	214	214	200	200	15	7 *	1,832,287	1,737,099	3,569,386	9,562	33	81			
7	BATAVAN CIS II	LABASON	300	300	200	60	20	6 *	976,966	234,472	1,211,438	2,257	45	75			
8	USOLAN CIS	LABASON	96	76	179	54	12 *	3 *	1,957,659	469,836	2,427,495	20,392	22.4	69			
PROVINCE TOTAL (AVERAGE)			1,498	1,678	(199)	853	119	53	12,069,245	4,636,798	16,706,043	( 7,108)					
** PROVINCE : ZAMBANGA DEL SUR **																	
1	KABASALAN CIS	KABASALAN	350	350	200	285	47 *	14 *	7,185,903	5,292,326	12,478,229	20,531	28	86			
PROVINCE TOTAL (AVERAGE)			350	350	(200)	285	47	14	7,185,903	5,292,326	12,478,229	( 20,531)					
SECTION TOTAL (AVERAGE)			2,048	2,028	(199)	1,138	166	66	19,265,148	9,929,124	29,194,272	( 9,402)					

REMARK \* : Rehabilitation in necessary. --- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (14/17)

SECTION NO. : 1

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NO.	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA		DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	CROPPING INTENSITY	MOS. OF BENEFICIARIES (No.)	LENGTH OF DIVERSION DAM		LENGTH OF MAIN/FEEDER CANALS (km)	GENERABLE COST		NON-CHARGEABLE COST		TOTAL COST		CHANGEABLE COST PER AREA (Peso/ha)	RANKS IN PRIORITY-ZONATION	FUND SOURCE	
		(ha)	(ha)				(m)	(m)		(Peso)	(Peso)	(Peso)	(Peso)						
** PROVINCE : SORICAO DEL NORTE **																			
1	MAYON CIS	60	60	200	200	600	12	4	4	838,860	201,375	1,040,235	13,981	15	51				
2	AFON CIS	62	62	200	200	78	14	3	3	1,693,300	403,992	2,097,292	27,150	21	73				
PROVINCE TOTAL (AVERAGE)		122	122	(200)	(200)	678	26	8	8	2,522,160	605,318	3,127,478	(20,673)						
** PROVINCE : CANTON **																			
1	AGUITA BAYLAD UNAD CIS	90	90	200	200	90	12	4	4	56,448	13,518	59,966	627	52	83				
PROVINCE TOTAL (AVERAGE)		90	90	(200)	(200)	90	12	4	4	56,448	13,518	59,966	(627)						
** PROVINCE : AGUSAN DEL NORTE **																			
1	AGUSAN-ONG CIS	150	150	200	200	999	18	6	6	632,400	151,776	784,176	4,216	31	91				
2	TALO-AD CIS	250	150	160	160	109	15	3	3	459,000	110,150	569,150	1,836	23	83				
3	BASAG CIS	50	50	200	200	200	18	5	5	60,000	14,400	74,400	1,200	33	81				
4	TAD-UY CIS	70	70	200	200	35	15	1	1	507,315	144,820	652,135	7,247	54	80				
5	MONTAY CIS	200	200	110	110	83	20	3	3	611,700	154,608	766,308	3,209	16	77				
6	ERANDON CIS	270	270	196	196	200	20	6	6	897,500	215,400	1,112,900	3,324	34	77				
7	AGAB CIS	80	80	200	200	14	15	0	0	158,100	37,944	196,044	2,635	32	77				
8	LINGAYAN CIS	120	80	187	180	180	30	5	5	521,200	125,112	646,312	4,344	16	65				
9	ALICERAO CIS	230	39	116	116	20	15	3	3	360,000	86,400	446,400	1,440	13	57				
PROVINCE TOTAL (AVERAGE)		1,620	879	(162)	(162)	1,942	166	31	31	4,237,315	1,010,020	5,277,335	(2,904)						
** PROVINCE : MISAMIS ORIENTAL **																			
1	CAMAROC-BARUNG CIS	50	50	200	200	28	6	0	0	100,000	24,000	124,000	2,000	33	84				
2	AGUOS CIS	70	70	200	200	80	20	6	6	36,130	96,182	132,312	545	40	83				
3	LACUOLONG CIS	80	56	170	170	90	0	2	2	80,000	19,200	99,200	1,000	26	81				
PROVINCE TOTAL (AVERAGE)		200	176	(168)	(168)	198	26	8	8	218,130	139,382	357,512	(1,031)						
** PROVINCE : MISAMIS OCCIDENTAL **																			
1	PELONC-PAULAN CIS	100	100	200	200	140	7	5	5	155,000	37,200	192,200	1,550	35	94				
2	PARALISAN CIS	120	120	200	200	100	17	13	13	1,534,500	356,260	1,902,760	12,788	52	91				
3	GALEB CIS	104	104	200	200	337	20	9	9	330,600	81,744	412,344	2,123	40	83				
4	MANSADAT CIS	100	100	200	200	168	20	8	8	251,100	102,932	354,032	2,511	33	81				
5	MACAYA CIS	85	85	200	200	175	3	12	12	269,700	64,728	334,428	3,473	39	81				
6	SOMASAP CIS	60	60	200	200	110	16	2	2	91,000	79,980	172,980	1,550	58	81				
7	TIGUOL CIS	264	264	200	200	223	30	17	17	4,929,000	1,182,960	6,111,960	18,670	23	73				
8	JIRIBEL CIS	260	260	200	200	--	0	7	7	1,767,000	424,000	2,191,000	6,796	16	64				
9	ALORAN CIS	314	314	200	200	508	32	5	5	854,112	1,934,787	2,788,899	2,720	15	63				
PROVINCE TOTAL (AVERAGE)		1,487	1,487	(200)	(200)	1,811	145	78	78	10,244,012	4,288,691	14,532,703	(6,869)						

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (15/17)

REGION NO. : 3

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NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	WUS. OF FARMERS BENEFICIARIES (Nos.)	LENGTH OF DIVERSION MAIN/ATERIAL CANALS (m)	LENGTH OF MAIN/ATERIAL CANALS (km)	CHARGEABLE COST (Peso)	ROI-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	EFF. (%)	MARKS IN PRIORITY-ZONATION	SOURCES
** PROVINCE : BULIDOK **															
1	ELISION CIS	SUMILAO	300	300	200	80	20 *	11 *	461,280	110,707	571,987	1,936	33	92	
2	DEY KIBANE CIS	KIBANE	100	100	200	26	7 *	2	116,250	27,900	144,150	1,163	33	90	
3	SALAVAGAN CIS	QUEZON	150	150	200	65	15	2 *	204,000	48,960	252,960	1,368	51	89	
4	MARAGOR CIS	KALAYBALAY	300	300	200	176	7 *	6	651,000	156,240	807,240	2,170	39	79	
5	SPRINGSIDE CIS	MARANG	120	120	200	51	10	9 *	98,580	23,659	122,239	822	33	76	
6	ELI-KILL CIS	WAO	100	100	200	55	10 *	4 *	83,700	20,698	104,398	837	33	75	
PROVINCE TOTAL (AVERAGE)			1,070	1,070	(200)	453	69	34	1,674,810	397,454	2,072,264	( 1,599)			
** PROVINCE : AGUSAN DEL SUR **															
1	MASLOC CIS	SAN FRANCISCO	75	75	200	34	23 *	2 *	315,000	15,600	330,600	4,200	31	96	
2	BAYOGAN III CIS	ROSARIO	200	196	198	46	12 *	6 *	505,000	230,400	735,400	2,525	31	94	
3	BAYOGAN II CIS	SAN FRANCISCO	100	100	200	34	12 *	2 *	370,000	80,800	450,800	3,700	31	94	
4	MARIBUYAT CIS	BAYOGAN I	100	100	200	35	19	6 *	83,000	19,920	102,920	830	33	92	
5	CHARITO CIS	BAYOGAN I	200	200	200	42	10 *	5 *	193,000	115,520	308,520	965	33	90	
6	MARCELINA CIS	BAYOGAN I	200	200	200	70	11 *	10 *	344,100	151,775	495,875	1,721	33	75	
PROVINCE TOTAL (AVERAGE)			875	871	(200)	262	87	30	1,800,100	702,816	2,512,916	( 2,069)			
REGION TOTAL (AVERAGE)			5,264	4,695	(199)	5,324	531	194	30,702,975	1,116,449	27,859,424	( 3,933)			

REMARK \* : Rehabilitation is necessary. -- : Data not available

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (16/17)

SECTION NO. : II

NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA IN WET SEASON (ha)	DESIGNED IRRIGABLE AREA IN DRY SEASON (ha)	CROPPING INTENSITY (%)	NOS. OF FARMERS BENEFICIARIES	LENGTH OF DIVISION DAM (m)	LENGTH OF MAIN/INTERNAL CANALS (km)	CHARGEABLE COST (Peso)	NON-CHARGEABLE COST (Peso)	TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	BISS PERCENTAGE (%)	MARKS IN PROJECTIONS	FUND SOURCE
** PROVINCE : SUELGU DEL SUR **															
1	BITAUGAN CIS	CARAIT	65	50	177	42	5	4 *	833,760	201,288	1,039,998	12,903	44	94	
2	PANTARAN CIS	CABRAGAL	280	280	200	91	0 *	5 *	1,469,005	352,321	1,820,326	5,243	35	92	
3	REBABIL CIS	CORESSA	89	80	300	145	0 *	2 *	382,602	91,874	474,476	4,783	32	91	
4	STA FELICITA CIS	TANDAG	174	174	200	171	11 *	4 *	1,190,400	666,242	1,856,652	6,811	58	87	
5	BUNGA CIS	LARUA	100	64	161	56	15	9 *	706,335	169,530	875,855	7,652	38	82	
6	SAN ROQUE CIS	MABRID	100	70	170	88	0 *	4 *	530,100	127,224	657,324	5,391	26	81	
7	BUTIAN I CIS	MABRID	225	225	200	120	0 *	4 *	1,864,550	447,516	2,312,166	8,287	45	77	
PROVINCE TOTAL (AVERAGE)			1,024	943	(192)	713	31	31	6,980,992	2,055,945	9,036,937	( 6,817 )			
** PROVINCE : DAVAO DEL SUR **															
1	BAGUNA CIS	BANSALAN	300	300	200	300	15 *	11 *	915,365	244,488	1,159,853	3,851	32	77	
2	BALA KARAPUO CIS	MAGSAYSAY	166	166	200	99	25	7 *	197,537	47,409	244,946	1,190	35	77	
PROVINCE TOTAL (AVERAGE)			466	466	(200)	299	40	18	1,112,902	291,897	1,404,799	( 2,298 )			
** PROVINCE : SOUTHERN COCABADO **															
1	BASAL - POLONONG CIS	TOPI	300	300	200	36	0	3 *	518,988	124,555	643,533	1,720	35	92	
2	LONJAN CIS	MALTON	120	120	200	57	28	2 *	930,335	224,280	1,154,615	7,951	33	90	
3	KATAPOL CIS	BORALA	200	200	200	182	10 *	7 *	500,000	120,000	620,000	2,500	26	69	
4	LAMBUSING CIS	MOZALA	112	112	179	73	6	0 *	2,884,433	581,569	3,465,922	20,593	27	89	
5	LUNYAN CIS	TANTANGAN	85	85	200	--	0 *	2 *	1,633,056	351,133	1,984,189	17,212	30	87	CIDP II
6	DUBOGAS CIS	SORALOG	100	100	200	46	9	5 *	431,250	103,500	534,750	4,313	33	85	
7	MALAYA CIS	BANGA	240	240	200	--	0 *	5 *	1,675,456	402,109	2,077,565	6,361	45	81	
8	SUFON CIS	KOBORADAL	100	100	200	78	24	3 *	986,588	236,779	1,223,353	9,266	32	81	
9	MALALAG - MAMAR CIS	MALTON	135	135	200	--	0 *	6 *	1,782,017	427,684	2,209,701	13,200	40	79	
10	CACOB CIS	KOBORADAL	90	90	200	80	45 *	2 *	1,184,737	281,337	1,466,074	13,164	47	79	
11	TUGUIS CIS	ELINBA	250	250	200	152	15	2 *	804,258	193,022	997,280	3,217	56	77	
12	LARE SORU CIS	LARE SORU	180	180	200	100	28 *	8 *	718,791	172,510	891,301	3,893	45	77	
13	TUAL CIS	ELINBA	100	100	200	69	18	4 *	108,000	24,000	132,000	1,300	27	77	
14	UPPER BIANGAR CIS	MALURONG	188	149	179	119	4 *	4 *	3,489,143	2,066,560	5,595,703	18,812	19	75	
15	EL EEX CIP	BANGA	72	72	200	61	12	2 *	381,255	91,501	472,756	5,295	19	68	
16	GLANG CIS	POKORONG	300	115	138	77	20	6 *	600,170	144,041	744,211	2,001	20	62	
17	TANTANGAN CIS	TANTANGAN	180	180	200	76	0	5 *	5,491,836	1,318,041	6,809,877	36,510	16	61	
18	KALANG CIS	MALTON	200	200	200	120	0	10 *	2,000,000	400,000	2,400,000	10,000	12	57	
PROVINCE TOTAL (AVERAGE)			2,982	2,728	(191)	1,326	228	79	25,982,351	7,477,731	33,460,082	( 8,706 )			
** SECTION TOTAL (AVERAGE)															
			4,472	4,137	(183)	2,338	289	120	34,856,051	9,825,573	43,681,624	( 7,615 )			

GENERAL FEATURES OF 'A' GROUP SUB-PROJECTS: CIS (17/17)

REGION NO. : III

PAGE 17

NO.	NAME OF CIS	NAME OF MUNICIPALITY	DESIGNED IRRIGABLE AREA		CROPPING INTENSITY (%)	PARCELS BENEFICIALES (Nos.)	LENGTH OF DIVERSION DAM		COST (Peso)	JOB-CHARGEABLE COST		TOTAL COST (Peso)	CHARGEABLE COST PER AREA (Peso/ha)	EIRR (%)	AGES IN PRIORITI-ZATION	FUND SOURCE
			(ha)	(ha)			(m)	(kg)		(Peso)	(Peso)					
** PROVINCE : LARAO DEL NORTE **																
1	MAPOROS CIS		300	300	200	100	14	9	1,230,000	309,600	1,539,600	6,500	35	77		
PROVINCE TOTAL (AVERAGE)																
			300	300	(200)	100	14	9	1,230,000	309,600	1,539,600	( 6,500)				
** PROVINCE : NORTH COCHABAMBO **																
1	MAYALAM		150	150	200	102	25	6	311,095	81,863	402,958	2,274	45	77		
2	TIGSAYAN CIS		250	250	200	79	34	6	728,419	174,828	903,247	2,914	29	75		
PROVINCE TOTAL (AVERAGE)																
			400	400	(200)	181	59	13	1,069,544	256,691	1,326,235	( 2,674)				
** PROVINCE : MAGUIBANSO **																
1	PICALAGAN CIS		380	135	136	91	8	6	2,683,593	1,042,500	3,725,653	1,062	52	90		
2	BRAB CIS		250	250	200	69	7	4	2,746,071	783,057	3,529,128	10,394	51	75		
PROVINCE TOTAL (AVERAGE)																
			530	385	(161)	165	15	10	5,429,664	1,825,557	7,254,811	( 8,618)				
** PROVINCE : SULTAN EUDORAT **																
1	TUBA CIS		300	250	183	102	18	4	2,084,112	935,377	2,939,489	6,860	35	89		
2	KOLUBE CIS		120	120	200	31	8	2	1,131,655	341,244	1,472,909	9,431	58	88		
3	PALINBANG-DOKATO CIS		350	350	200	175	50	7	3,773,288	1,510,864	5,284,152	10,481	42	85		
4	MARIGAGS		155	155	200	108	19	2	2,750,651	1,306,246	4,056,897	17,716	19	69		
5	BITAO CIS		120	100	183	68	20	2	982,394	317,019	1,299,413	8,187	15	59		
6	PALAVILLA CIS		210	210	200	121	32	6	3,815,440	1,136,227	4,951,667	18,169	10	52		
PROVINCE TOTAL (AVERAGE)																
			1,255	1,195	(194)	608	157	22	14,457,550	5,546,977	20,004,527	( 11,429)				
REGION TOTAL (AVERAGE)																
			2,395	2,260	(186)	1,055	245	53	22,246,748	7,930,425	30,185,173	( 8,573)				
NATION TOTAL (AVERAGE)																
			49,624	43,325	(188)	36,782	6,310	1,552	399,046,140	132,763,729	531,809,869	( 8,140)				

REMARK † : Rehabilitation in necessary. -- : Data not available



