

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
DEPARTMENT OF AGRARIAN REFORM (DAR)

THE FEASIBILITY STUDY
ON
DEVELOPMENT OF AGRARIAN REFORM
COMMUNITIES
IN
MARGINAL AREAS
IN
THE REPUBLIC OF THE PHILIPPINES

ANNEX (I)

JULY, 1997

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ANNEX (I)

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ANNEX A. IMPLEMENTING ARRANGEMENT AND OTHERS

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ON
IMPLEMENTING ARRANGEMENT
FOR
THE PREPARATORY STUDY
FOR
THE FEASIBILITY STUDY
OF
DEVELOPMENT OF AGRARIAN REFORM COMMUNITIES
IN
MARGINAL AREAS
IN
THE REPUBLIC OF THE PHILIPPINES

The Preparatory Study Team (hereinafter referred to as "the Team") organized by Japan International Cooperation Agency (hereinafter referred to as "JICA"), and headed by Mr. Hideo ONO, visited the Philippines from October 23 to November 11, 1995 for the purpose of discussing and confirming the Implementing Arrangement for the Feasibility Study of Development of Agrarian Reform Communities in Marginal Areas (hereinafter referred to as "the Study").

The Team had a series of discussions with the officials concerned of Department of Agrarian Reform (hereinafter referred to as "DAR") and other organizations concerned on the Implementing Arrangement for the Study. The list of participants of the meeting is attached in the ANNEX I.

As the result of the discussions, the Team and DAR agreed the



Implementing Arrangement for the Study and also agreed to report to the authorities of their respective Government on the following understanding.

1. Framework of the Feasibility Study,

1-1. Selection of Model Areas

A model area of the agrarian reform communities is to be selected among each Region (14). DAR proposed tentatively, the sites for the model areas (14), with priority selected among each Region (14). The proposed sites for the model areas is attached in the ANNEX II. The model areas (14) will be finalized during the initial stage of the Development Survey which is expected to start in February 1996.

1-2. Size of One Model Area

One model area covers on the average 100ha to 300ha. However, the size of each model area depends on scale of "Barangay", formulated as an agrarian reform community, topographic conditions, land use, water resources, access road, community based development plan, etc..

1-3. Security for Conducting Feasibility Study

In case the model areas will not be safe enough to conduct field survey for the Feasibility Study, the field survey of those areas are suspended until security of the areas will be fully recovered.

1-4. Participation of Agrarian Reform Communities (ARCs) representatives and Non-Government Organizations (NGOs)/Peoples Organizations (POs)

The objective of the Study is to contribute to upgrading of farmers' life/beneficiaries under Comprehensive Agrarian Reform Program (CARP). Therefore, participatory approach of the farmers in ARCs should be emphasized in process of formulating development plan for the selected model areas of ARCs.

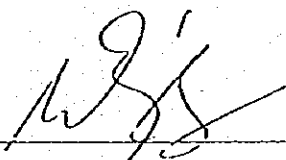
And also NGOs/POs in the Philippines are expected to be functioned as a coordinating and supporting body for planning and implementation of the Agrarian Reform Communities Development Program.

2. DAR shall make necessary arrangement/procedures to concerned government agencies and organizations for the preparation of topographic maps of the Study areas on a request of the Japanese Study

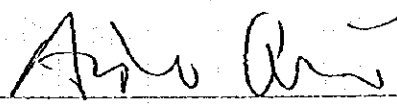
Team.

3. DAR shall prepare, at its own expense, the Project Description and Environment Impact Statements if necessary, according to the Philippines laws and regulations. Japanese Study Team shall cover the Initial Environmental Examination to provide DAR with basic data and information on environmental issue in the course of the Study
4. DAR requested that JICA provide equipments for use during the Study:
 - vehicle
 - set of personal computersThe Team promised to convey its request to the Government of Japan.

Metro Manila,
8 November, 1995



Mr. Ernesto D. GARILAO
Secretary,
Department of Agrarian Reform



Mr. Hideo ONO
Leader,
Preparatory Study Team,
Japan International Cooperation
Agency



LIST OF PARTICIPANTS

1. Philippine Side

Department of Agrarian Reform

Mr. Ernesto D. GARILAO	Secretary, DAR
Mr. Jose Mari B. PONCE	Director, Project Development and Management Staff (PDMS)
Ms. MA. Celerina G. AFABLE	Project Development Officer V, PDMS
Ms. Irma T. CANLAS	Senior Agrarian Reform Program Officer, PMDS
Mr. Masahiro YAGI	JICA Expert

2. Japanese Side

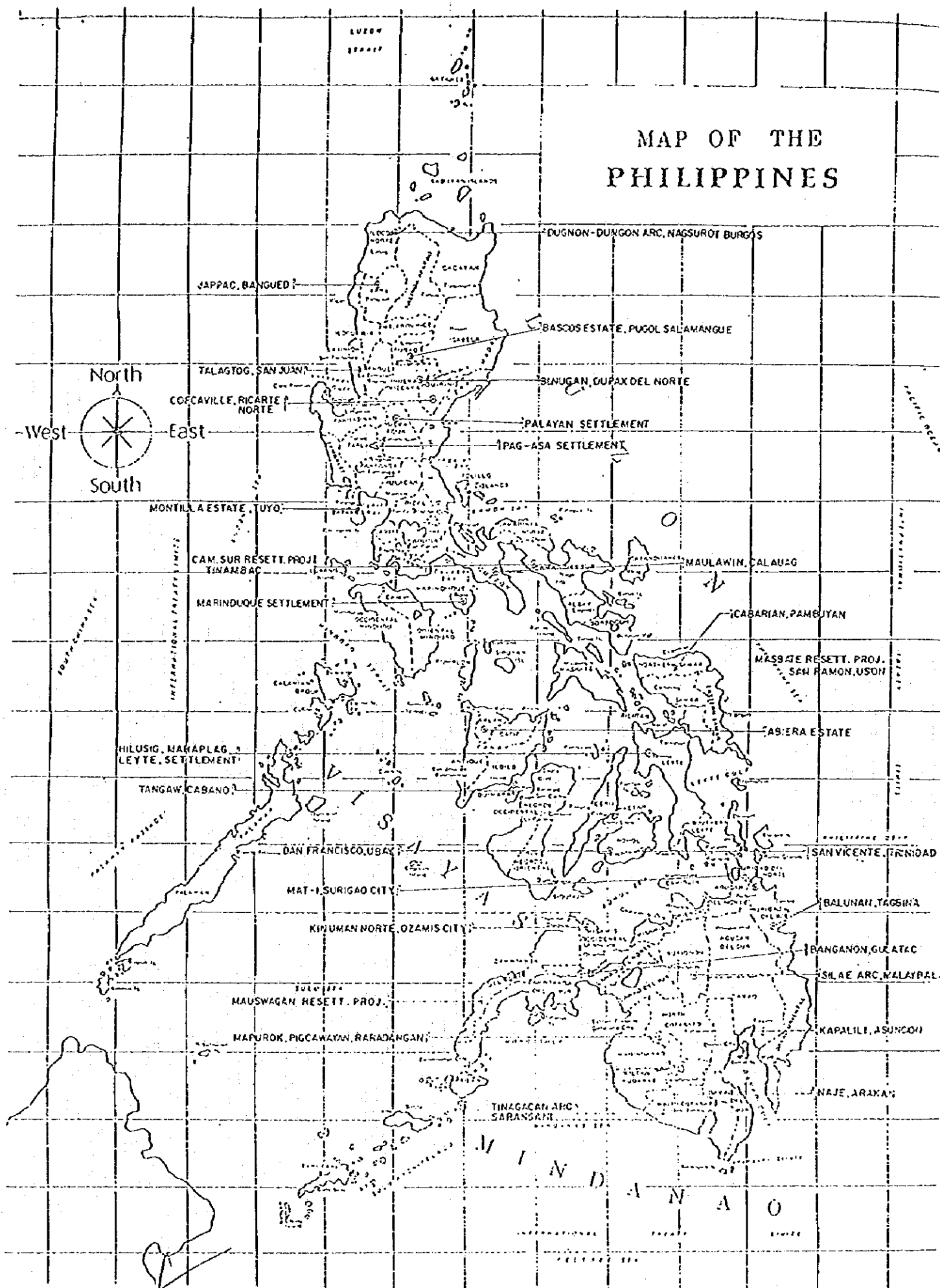
Preparatory Study Team

Mr. Hideo ONO	Leader
Mr. Yoichi NISHIO	Member
Mr. Kazuhiko IHARA	Member
Mr. Sumio SHINDO	Member
Mr. Kozo ITO	Member

PROPOSED SITES FOR DEVELOPMENT SURVEY OF MARGINAL LANDS

REGION	PRIORITY 1	PRIORITY 2
CAR	Sappac, Bangued ABRA	Bascos Estate, Pugol-Salamangue Lamut, IFUGAO
I	Talugtog, San Juan LA UNION	Dungon-dungon ARC, Nagsurot Burgos, ILOCOS NORTE
II	Cofcaville, Ricarte Norte QUIRINO	Binugan, Dupax del Norte NUEVA VIZCAYA
III	Montilla Estate, Tuyo, Balanga BATAAN	Pag-asa Settlement TARLAC
IV	Marinduque Resett. Proj. Area (Pres. Proclamation No. 2282) MARINDUQUE	Palayan Sett. ARC, Palayan City NUEVA ECIJA (South)
V	Marinduque Resett. Proj. Area (Pres. Proclamation No. 2282) MARINDUQUE	Maulawin, Calauag QUEZON
VI	Camarines Sur Resett. Area Tinambac, CAMARINES SUR	Masbate Resett. Project San Ramon, Uson MASBATE
VII	Tengaw, Cabano, Jordan GUIMARAS	Abiera Estate, Kalibo AKLAN
VIII	San Francisco, Ubay BOHOL	Abiera Estate, Kalibo AKLAN
VIII	Hilusig, Mahaplag-Leyte Sett. LEYTE	San Vicente, Trinidad BOHOL
IX	Godod Resett. Proj. Mauswagan & Sianan ZAMBOANGA DEL NORTE	Cabarian, Pambujan NORTHERN SAMAR
X	Godod Resett. Proj. Mauswagan & Sianan ZAMBOANGA DEL NORTE	Banganon, Gulatac ZAMBOANGA DEL NORTE
XI	Klhuman Norte, Ozamiz City MISAMIS OCCIDENTAL	Silae ARC, Malaybalay BUKIDNON
XII	Tinagacon, Upper Labay & Bartolomelong, Gen. Santos SARANGANI	Kapalili, Asuncion DAVAO PROVINCE
XII	Patol ARC, Pigcawayan COTABATO	Naje, Arekan COTABATO
XIII	Mat-I, Surigao City SURIGAO DEL NORTE	Balunan, Tagbina SURIGAO DEL SUR

MAP OF THE PHILIPPINES

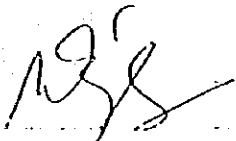


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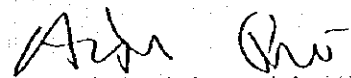
IMPLEMENTING ARRANGEMENT
ON
THE TECHNICAL COOPERATION
FOR
THE FEASIBILITY STUDY
OF
DEVELOPMENT OF AGRARIAN REFORM COMMUNITIES
IN
MARGINAL AREAS
IN
THE REPUBLIC OF THE PHILIPPINES

AGREED UPON
BETWEEN
DEPARTMENT OF AGRARIAN REFORM
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

METRO MANILA, 8 NOVEMBER, 1995



Mr. Ernesto D. GARILAO
Secretary,
Department of Agrarian Reform



Mr. Hideo ONO
Leader,
Preparatory Study Team,
Japan International
Cooperation Agency

I. INTRODUCTION

In response to the request of the Government of the Republic of the Philippines (hereinafter referred to as "GOP"), the Government of Japan (hereinafter referred to as "GOJ") has decided to conduct the Feasibility Study of Development of Agrarian Reform Communities in Marginal Areas (hereinafter referred to as "the Study"), and exchanged the Notes Verbals with GOP concerning the implementation of the Study.

Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of GOJ, will undertake the Study in accordance with relevant laws and regulations enforced in Japan.

On the part of GOP, Department of Agrarian Reform (hereinafter referred to as "DAR"), shall act as the counterpart agency to the Japanese study team and also as coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

The present document constitutes the implementing arrangement between JICA and DAR under the above mentioned Notes Verbals exchanged between two governments.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are;

- 1-1. To develop the agrarian reform communities (ARCs), thus contribute to improvement of the quality of life of the Comprehensive Agrarian Reform Program (CARP) beneficiaries in the marginal areas which are undulating and where permanent source of water is not available.
 - a. introducing small pond for irrigation, aquaculture and for domestic consumption
 - b. infrastructure development such as roads; farm ditches; wells/pumps for potable water supply
 - c. agricultural development such as aquaculture; cropping pattern; horticulture; soil conservation; reforestation, animal husbandry

and so on.

- 1-2. To formulate development plan for selected areas among Regions and develop the Guideline on agrarian reform community development plan for each category which could be applicable to nationwide basis.
2. To carry out technology transfer to the Philippines counterpart personnel through on-the-job training in the course of the Study.

III. STUDY AREA

The Study area consists of selected areas among Regions.

IV. SCOPE OF THE STUDY

In order to achieve this objectives, the Study will consist of following two phases:

1. Phase I

Model areas will be selected and mapped and general profiles of the model areas will be reviewed. And typical model areas will be selected from each category.

- 1-1. To select one model area among each Region(14) in principle, considering recommendation of DAR and strategy of ARCs. Each model area will cover 100ha to 300ha.
- 1-2. To collect and analyze relevant existing data and information and to carry out field survey and investigation of each model area on the following:
 - a. natural condition
 - b. socio-economical condition
 - c. agrarian reform
 - d. agriculture
 - e. agro-economic condition
 - f. land use
 - g. agricultural infrastructure
 - h. agro-processing and agro-industry
 - i. marketing system

- j. agricultural supporting system
- h. environment
- i. others

1-3. To prepare topographic map for each model area.

1-4. To categorize each model area for drafting agrarian reform community development plan considering natural condition, land use and other features.

1-5. To select several typical model areas from each category for the feasibility study.

2. Phase II

The feasibility study for agrarian reform community development will be implemented to each typical model area. The Guideline for each category will be developed, and the study team will support the counterparts to formulate development plan for the remaining model areas of 14 areas from feasibility study.

2-1. To implement the feasibility study for agrarian reform community development of each typical model area and formulate the most appropriate plan to each typical model area by considering the following components:

- a. rural infrastructure development (small pond, rural road, end canal and others)
- b. farming program (land use, aqua culture, animal husbandry and others)
- c. environment (soil conservation, reforestation and others)
- d. agro-processing and agro-industry
- e. agricultural supporting system (agricultural extension services, agricultural credit system, market system and others)
- f. Institution Building at communal bases (farmers organization and others)
- g. preparation of preliminary design of the main facilities
- h. formulation of operation and maintenance plan
- i. estimation of the project cost and benefits
- j. overall evaluation of the project
- k. recommendation

2-2. To develop the Guidelines of agrarian reform community development for each category which could be applicable to nationwide basis.

2-3. To support the counterparts to formulate development plan by using the Guideline to the model areas where feasibility study is not executed as a part of technical transfer.

V. STUDY SCHEDULE

The Study will be carried out in accordance with the attached tentative schedule. (See ANNEX I)

VI. REPORTS

JICA shall prepare and submit the following reports in English to GOP.

1. Inception Report

Twenty (20) copies at the commencement of the Study.

2. Progress Report (1)

Twenty (20) copies at the end of the Phase I field study in the Philippines.

3. Interim Report

Twenty (20) copies at the commencement of the Phase II field study.

4. Progress Report (2)

Twenty (20) copies at the end of the Phase II field study in the Philippines.

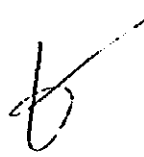
5. Draft Final Report

Twenty (20) copies at the end of Phase II home office work. GOP will provide JICA with its comments on the Draft Final Report within one (1) month after receipt of the Draft Final Report.

8. Final Report

Fifty (50) copies within two (2) month after the receipt of the GOP's comments on the Draft Final Report.

VII. UNDERTAKING OF GOP



In accordance with the Notes Verbals exchanged between GOJ and GOP, GOP shall accord privileges, immunities and other assistance to the Japanese study team and, through the authorities concerned, take necessary measures to facilitate the smooth conduct of the Study.

1. GOP shall be responsible for dealing with claims which may be brought by third parties against the members of the Japanese study team and shall hold them harmless in receipt of claims and liabilities arising in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims or liabilities arise from gross negligence or willful misconduct of the above mentioned members.
2. DAR shall, at its own expense, provide Japanese study team with the following, if necessary, in cooperation with other agencies concerned:
 - a. Available data and information related to the Study,
 - b. Counterpart personnel,
 - c. Suitable office space with necessary equipment in Metro Manila,
 - d. Credentials or identification card to the members of the Japanese study team.
3. DAR shall make necessary arrangements with other governmental and non-governmental organizations concerned for the following:
 - a. to secure the safety of the Japanese study team;
 - b. to permit the members of the Japanese study team to enter, leave and sojourn in the Philippines for the duration of their assignment therein;
 - c. to exempt the members of the Japanese study team from taxes, duties, fees and other charges on equipment, machinery and other materials brought into the Philippines for the conduct of the Study;
 - d. to exempt the members of the Japanese study team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Japanese study team for their services in connection with the implementation of the Study;
 - e. to provide necessary facilities to the Japanese study team for

remittance as well as utilization of the funds introduced into the Philippines from Japan in connection with the implementation of the Study;

- f. to secure permission for entry into private properties or restricted areas for the conduct of the Study;
- g. to secure permission to take all data and documents (including diapost-film and photographs) related to the Study out of the Philippines to Japan by the Japanese study team;
- h. to provide medical services as needed and its expenses will be chargeable on members of the Japanese study team.

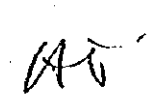

VIII. UNDERTAKING OF GOJ

In accordance with the Notes Verbals exchanged between GOJ and GOP, GOJ through JICA, shall take the following measures for implementation of the Study:

1. to dispatch, at its own expense, study teams to the Philippines,
2. to pursue technology transfer to the Philippines counterpart personnel in the course of the Study;
3. to provide the necessary equipment and machinery for the implementation of the Study, which will remain the property of GOJ unless otherwise agreed.

IX. CONSULTATION

JICA and DAR shall consult with each other in respect of any matter that may arise from or in connection with the Study.



ANNEX I

TENTATIVE SCHEDULE

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TEM																			
Work in the Philippines		■	■	■			■	■	■	■	■	■			⊗				
Work in Japan	□				□									□		⊙			
PHASE	← Phase I →					← Phase II →													
REPORT	△		△						△				△			△			△
	C/R		P/R (1)						IT/R				P/R (2)			DF/R			F/R

(Remarks)

- IC/R : Inception Report
- P/R (1) : Progress Report (1)
- It/R : Interim Report
- P/R (2) : Progress Report (2)
- DF/R : Draft Final Report
- F/R : Final Report
- ⊗ : Comments on DF/R by the Philippines side

**ANNEX B. COMPREHENSIVE AGRARIAN REFORM PROGRAM
(CARP)**

B.1 Basic Development Plan

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Figure B.1-3	Organizational Structure of DAR regional Office
Figure B.1-4	Organizational Structure of DAR Provincial Office
Figure B.1-5	Organizational Structure of DAR Municipal Agrarian reform Office

Table B.1-1 CARP Status by Model Areas

	OLT		VLT		VOS		CA		Government Land		KKK Lands		Settlement		Total Scope	Accomp. (%)
	Scope (ha.)	Accomp. (%)	Scope (ha.)	Accomp. (%)	Scope (ha.)	Accomp. (%)	Scope (ha.)	Accomp. (%)	Scope (ha.)	Accomp. (%)	Scope (ha.)	Accomp. (%)	Scope (ha.)	Accomp. (%)		
1. Sappac ARC	68.90	100.00	29.45	6.20											98.35	76.70
Bangued, Abra, CAR																
2. Talugog ARC	44.19	100.00	0.66	0.00											44.85	98.52
San Juan, La Union, Region I																
3. Cofcaville ARC			155.00	100.00	32.30	100.00	25.10	100.00	21.10	100.00	95.80	100.00			329.30	100.00
Maddela, Quirino, Region II																
4. Montilla Est. ARC					104.48	100.00									104.48	100.00
Balanga, Bataan, Region III																
5. Maulawin ARC			0.71	100.00	312.94	100.00									313.65	100.00
Caluang, Quezon, Region IV																
6. Pag-asa ARC													300.00	94.00	300.00	54.61
Tinambac, Camarines Sur																
Region V																
7. Abierta Estate					249.00	6.00									249.00	6.00
Altavas, Aklan, Region VI																
8. San Vicente ARC	10.13	0.00			375.00	100.00									385.13	97.37
Trinidad, Bohol, Region VII																
9. Marungog ARC					31.00	0.00			4.40	0.00					516.40	13.00
Hilongos, Leyte, Region VIII													481.00	14.00	481.00	13.00
10. Silae ARC	28.56	83.00			78.10	56.60			49.20	100.00					155.86	75.10
Malaybalay, Bukidnon																
Region X																
11. Kipatili ARC					300.00	100.00									300.00	100.00
Asuncion, Davao, Region XI																
12. Mar-i ARC			29.33	80.00			28.04	80.00			34.07	80.00			91.44	80.00
Surigao City, Surigao del Sur, Region XIII																
Total	151.78	96.82	215.16	72.37	1,482.82	75.85	53.14	180.00	74.70	28.25	129.87	73.77	781.00	48.30	2,888.47	77.56

Source: DAR - Provincial / Municipal Offices.

Table B.1-2 CARP Beneficiaries by land Tenure by Model Areas

Priority Area	Beneficiaries										Total
	Mother CLOA	Indv. CLOA	EP	Lease-Holder	Owner Cultivator	Sub Total (Direct Beneficiaries	Farm Worker/Potential ARB (Ind. Beneficiaries)				
1. Sappa-ac ARC Bangued, Abra, CAR	5	2	39	68	46	160	29				189
2. Talugtug ARC San Juan, La Union, Region I	-	3	43	39	25	110	29				139
3. Cofcaville ARC Maddela, Quirino, Region II	9(62)	51			36	149	30				179
4. Montilla Est. ARC Balanga, Bataan, Region III		63				63					63
5. Maulawin ARC Calauag, Quezon, Region IV		221				221	66				287
6. Pagasa ARC Tinambac, Camarines Sur Region V		73				73					73
7. Abiera Estate Altavas, Aklan, Region VI	11 (114) ^{1/}					114	26				140
8. San Vicente ARC Trinidad, Bohol, Region VII	1	239	19			279					279
9. Marangog ARC Hilongos, Leyte, Region VIII	95	41	10			146	101				247
10. Silae ARC Malaybalay, Bukidnon Region X	4(32)	25	8			65	70				135
11. Kipali ARC Asuncion, Davao, Region XI		119				119					119
12. Mat-I ARC Surigao City, Surigao del Sur, Region XIII		54		32	50	136					136

Note:

^{1/} Number of beneficiaries covered 114

FIGURE B.1-1 ORGANIZATION AND FUNCTIONAL STRUCTURE OF CARP

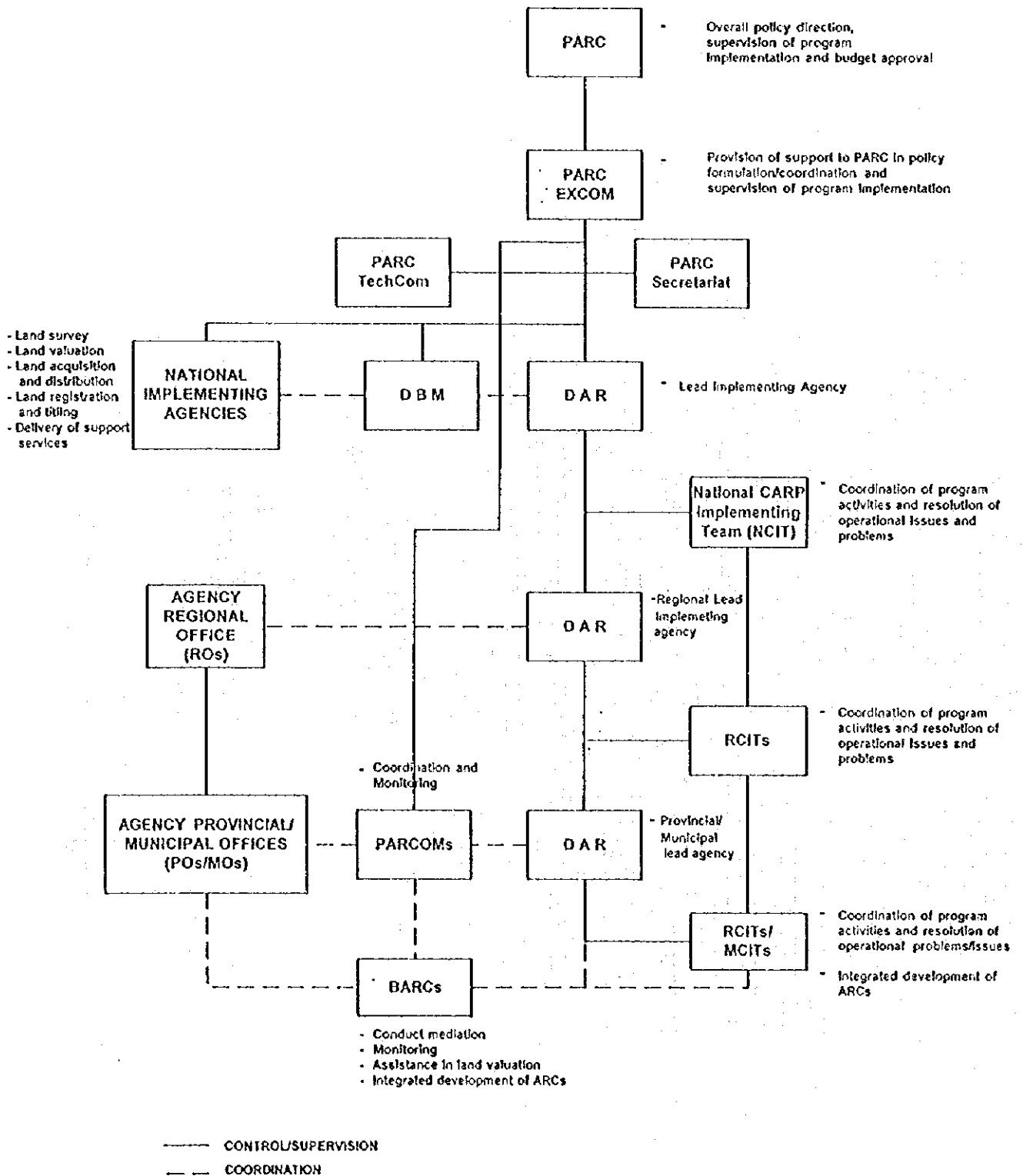


FIGURE B.1-2 ORGANIZATIONAL STRUCTURE OF DEPARTMENT OF AGRARIAN REFORM

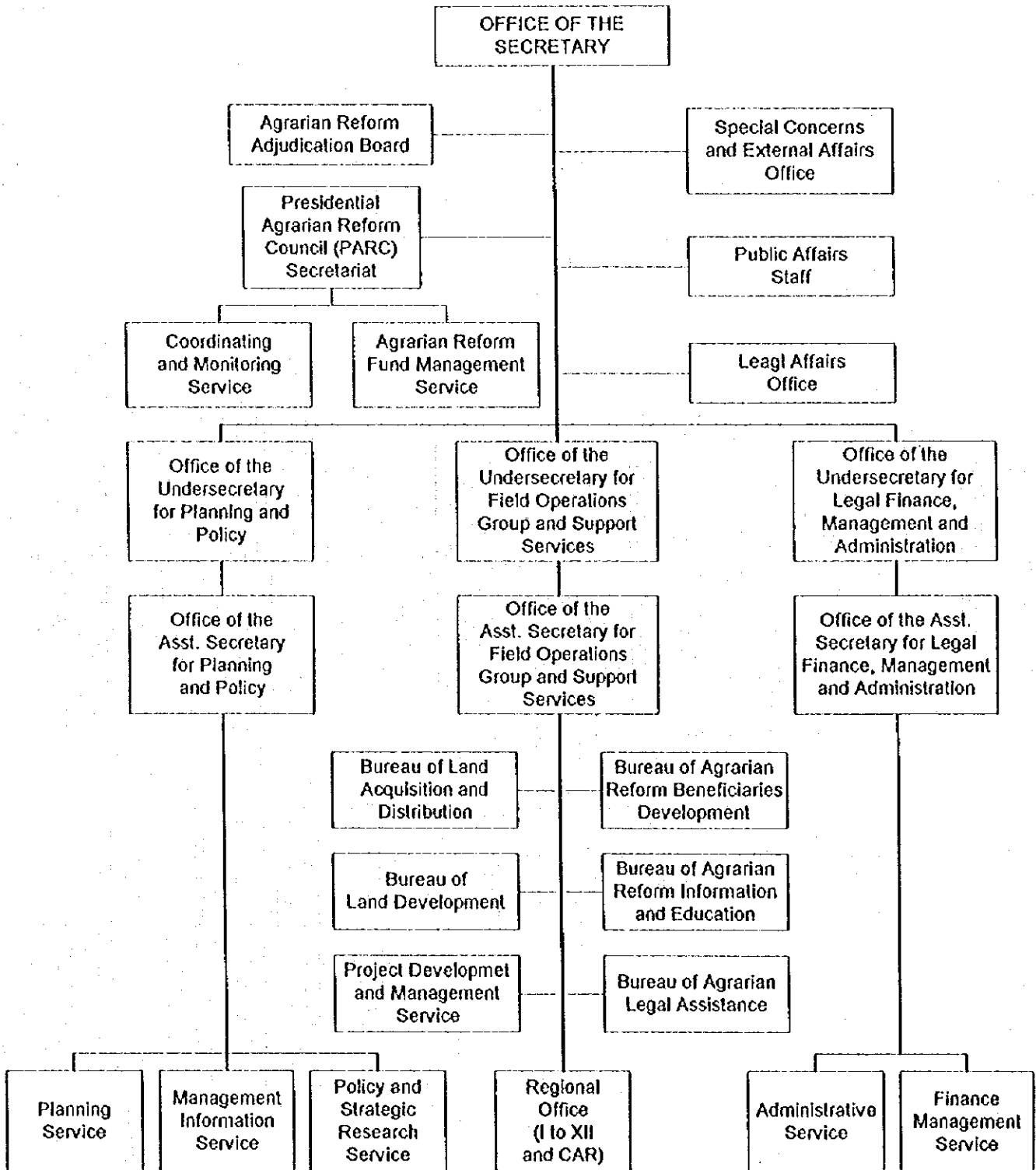


FIGURE B.1-3 ORGANIZATIONAL STRUCTURE OF DAR REGIONAL OFFICE

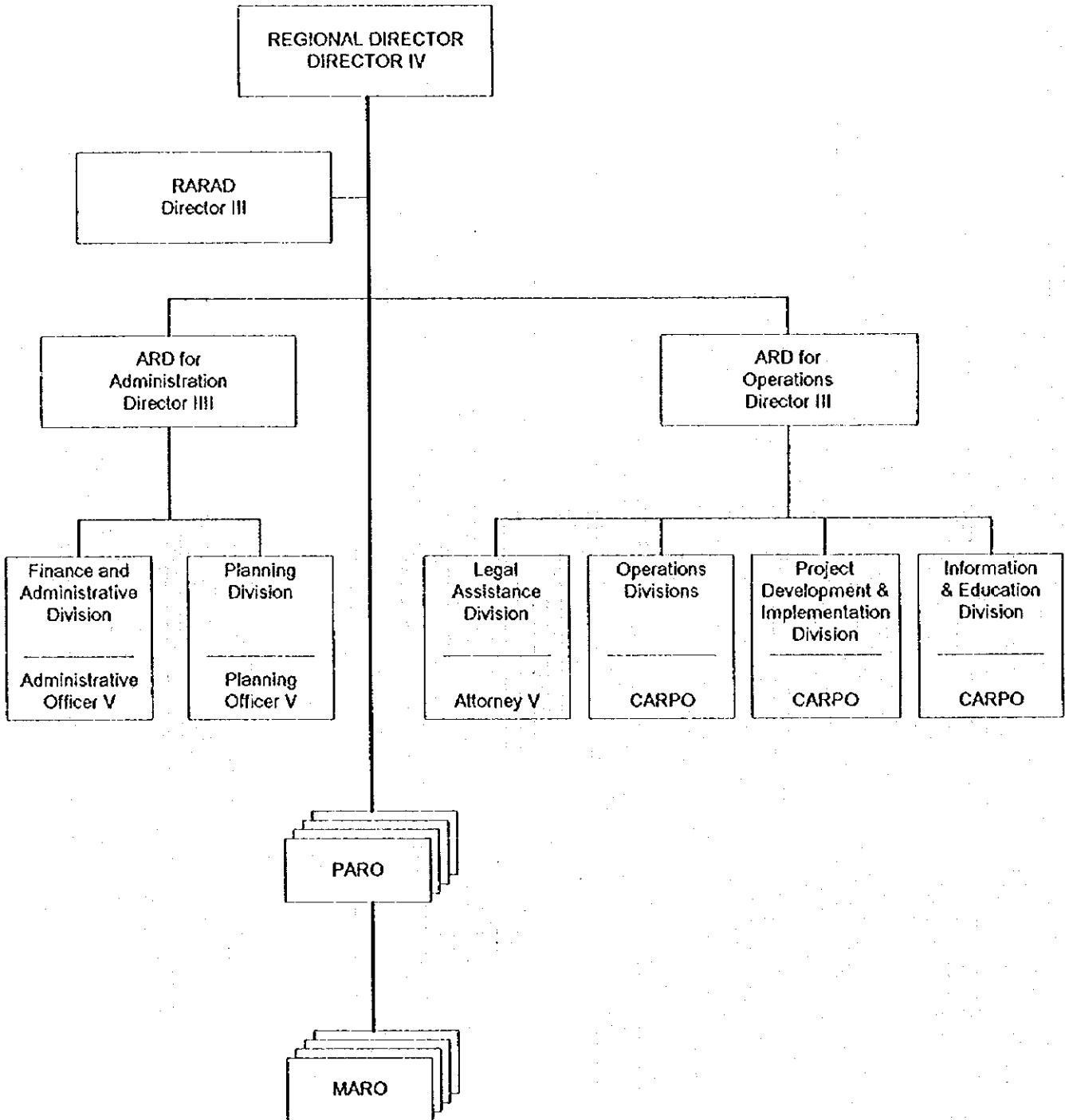


FIGURE B.1-4 ORGANIZATIONAL STRUCTURE OF DAR PROVINCIAL OFFICE

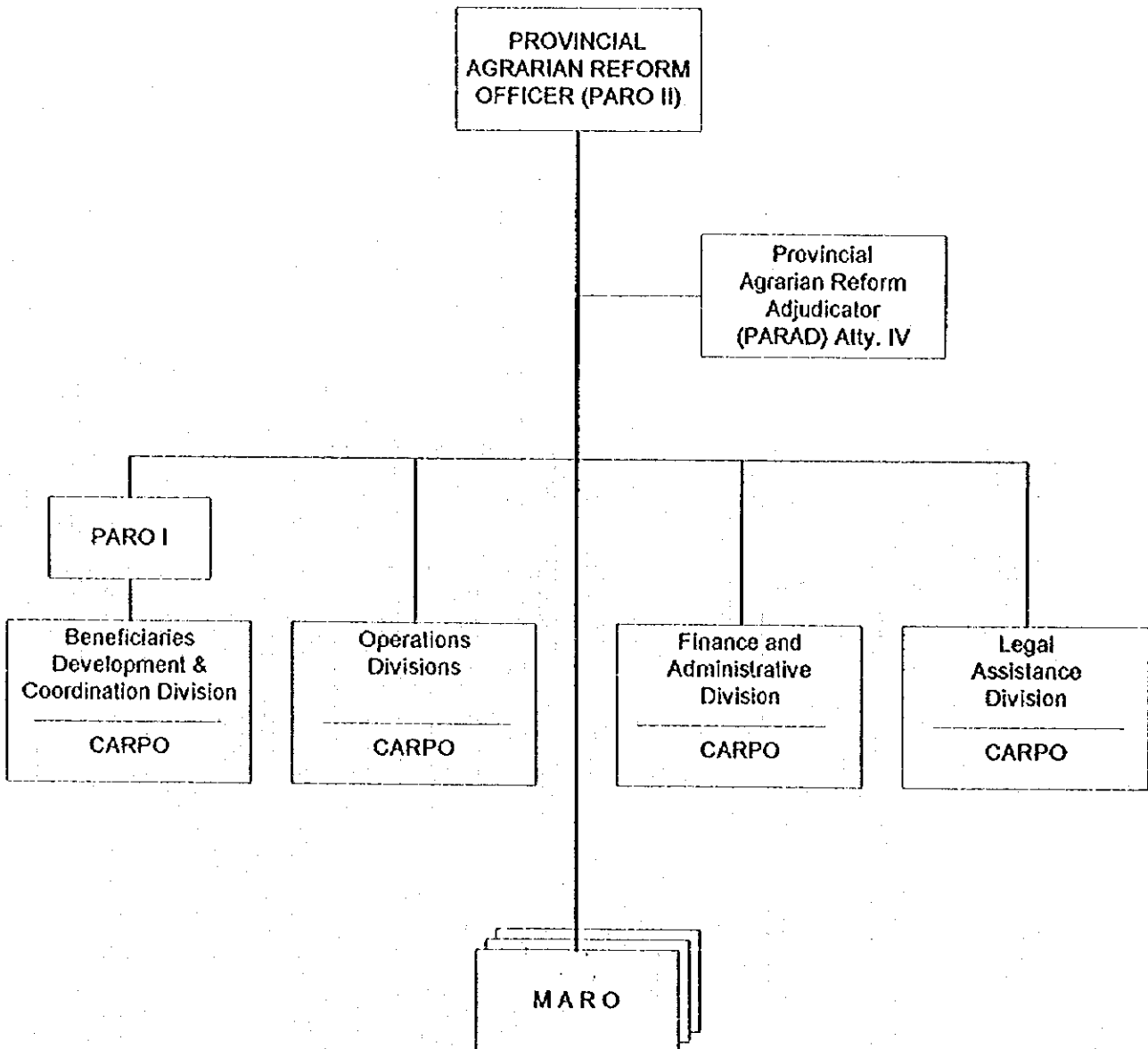
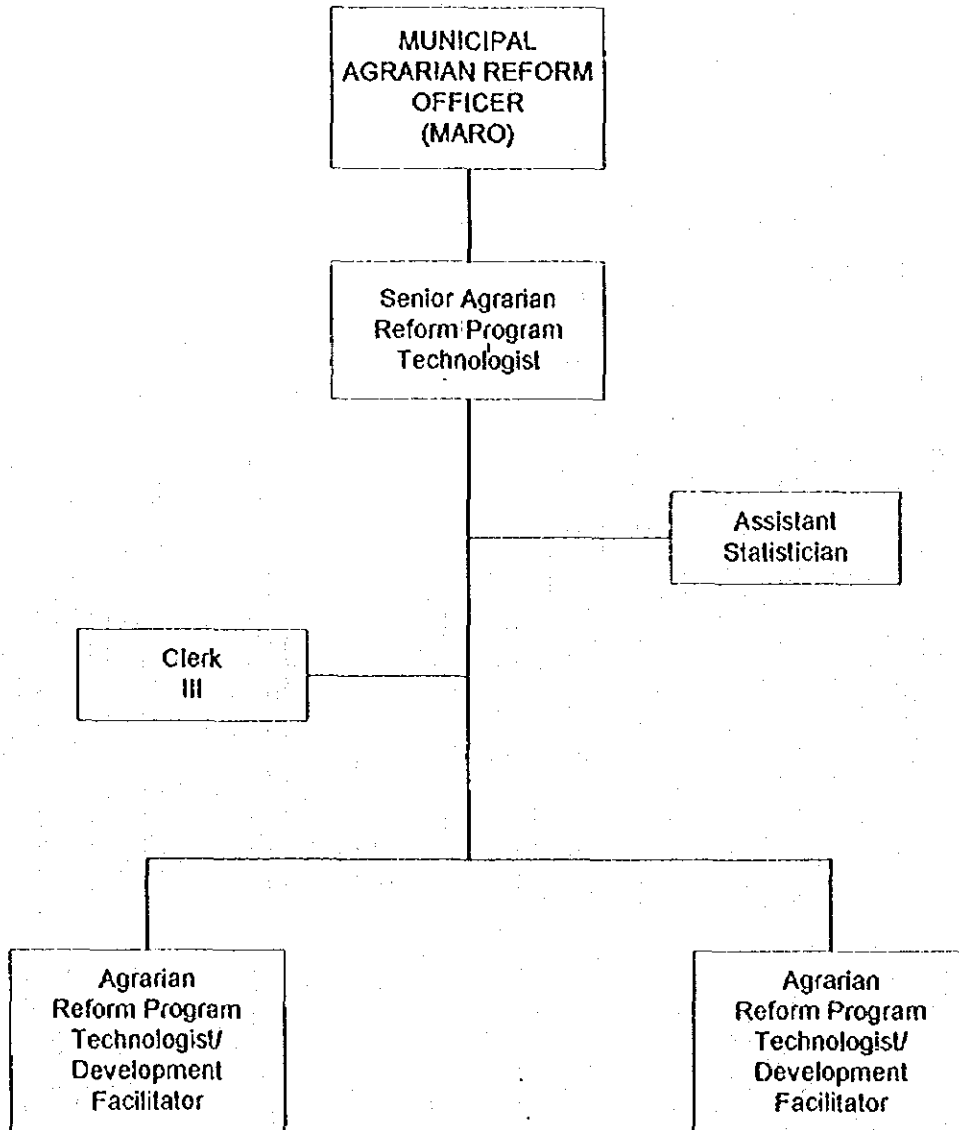


FIGURE B.1-5 ORGANIZATIONAL STRUCTURE OF DAR MUNICIPAL AGRARIAN REFORM OFFICE



ANNEX C. TOPOGRAPHIC SURVEY

Topographic and Longitudinal/Cross Sectional Survey

In the courses of Phase-I and Phase-II field works, following survey works have been carried out by the JICA study Team in the form of contract bases, in order to implement the study of the Project.

i) Topographic Survey of the Study Areas

Topographic surveys of 12 Model Areas located in the whole country have been undertaken to prepare the topographic map of 1 : 4,000 in scale. According to the original plan, their total areas to be surveyed are 3,018 ha.

ii) Longitudinal and Cross Sectional Survey

Longitudinal and cross sectional surveys for the identified water and irrigation facilities such as small impounding dams, diversion structures, irrigation canals, etc. have been conducted at four Typical Model Areas of Sappaac, Cofcaville, Marangog and Silae ARCs, which have been selected through the Phase-I study.

Appendix C-1 and C-2 show the survey specification mentioned in the above.

Appendix C-1

TECHNICAL SPECIFICATION OF TOPOGRAPHIC SURVEY IN MODEL AREAS

1. Scope of Works

Topographic survey shall be carried out by the Contractor at the 12 Model Areas as indicated in Table-1 and Figure-1, and areas to be surveyed will be indicated by the Consultants.

Topographic map shall be made by ground survey method, at a scale of 1/4,000 with one(1) meter counter intervals.

2. Units to be used

The metric systems shall be used as the unit of measurement.

3. Language

Language to be used shall be English.

4. Method of Works

All the works to be done shall be executed in accordance with these specifications, or in accordance with instructions and orders which the supervisor of JICA may give.

5. Special Requirements

In addition to these specifications, the followings are requested;

General

Coordinates to be used shall be local coordinates. Provision of Bench Mark, BM (control point) in each Model Area shall be made on the basis of the specification described in Figure-2. The newly provided control point shall be connected with existing Bench Mark in the vicinity of the Model Area. The height of the existing Bench Mark will be indicated by the Consultants.

Control Point Survey

Control point survey shall be carried out in accordance to JICA Specifications, of "Class B".

Leveling

Leveling shall be carried out in accordance with JICA Specifications. Difference of double running error shall not be greater than $6 \text{ cm}\sqrt{S}$ (S: km)

Closure of loop error shall not be greater than $6 \text{ cm}\sqrt{S}$ (S: km). From the existing bench mark to the newly provided bench mark closure error shall not be greater than $6 \text{ cm} + 6 \text{ cm}\sqrt{S}$ (S: km).

Topographic Survey and Planimetric Survey

Topographic survey and planimetric Survey shall be carried out by coordinates plotting method.

- 1) Instrument to be used;
 - Total station
 - Theodolite
 - Geodimeter
 - Distance meter
 - Auto level, and others
- 2) Contour interval of map shall be;
 - Index contours : 5 m
 - Main contours : 1 m
 - Supplementary contours : 0.5 m
- 3) Spot heights
 - Spot heights shall be drawn at interval of approximately 5 cm on the 1/4,000 map.

Original Map Sheet at 1/4,000 Scale

Drawing shall be made as follows;

- 1) Drawing sheet shall have a polyester base.
- 2) Marginal information and map symbols etc. shall be in accordance with specifications decided upon after discussions between the JICA Study Team and DAR in the Philippines.

Duplicated Map Sheet

Duplicated map sheet shall be made by means of reverse print on a polyester sheet.

Quality Control Sheet

The Contractor shall prepare quality control sheet and submit to the Consultants. The form of quality control sheet will be indicated by the Consultants.

6. Reporting

The Contractor shall submit to the Consultants a weekly progress report at the end of every week, and submit a final report describing the adopted method in each process, equipment used, schedule, etc.

7. Survey Period

The work shall be completed within three(3) months. Final delivery date shall be June 25, 1996, while some copies of the results shall be delivered piece by piece from early June, 1996.

8. Final Products to be delivered

The Contractor shall deliver to the Consultants the following final products in the Consultant office in the Philippines.

- | | | |
|--|---|--------|
| 1) Planning survey plan on 1/50,000 map | : | 3 sets |
| 2) Control point survey results, inclusive of record of Bench Mark station and quality control sheet | : | 1 set |
| 3) Leveling survey results | : | 1 set |
| 4) Topographic and planimetric survey results | : | 1 set |
| 5) Original map sheet at 1/4,000 scale | : | 1 set |
| 6) Duplicated map sheet | : | 2 sets |
| 7) Blue copy | : | 5 sets |
| 8) Reporting | | |
| a) Weekly report | : | 1 set |
| b) Final report | : | 3 sets |

Table-1

LIST OF MODEL AREAS

<u>Region</u>	<u>Priority</u>	<u>Name of ARC</u>	<u>Municipality/Province</u>	<u>Study Area (ha)</u>
CAR	1	Sappac ARC	Bangued, Abra Province	228
	2	Lamut ARC	Bascos Estate, Pugol-Salamangue, Ifugao Province	177
I	1	Talugtug ARC	San Juan, La Union Province	112
	2	Dungon-Dungon ARC	Nagsurot Burgos, Ilocos Norte Province	300
II	1	Cofcaville ARC	Maddela, Quirino Province	446
	2	Binnuangan ARC	Dupax Del Norte, Nueva Vizcaya Pro.	215
III	1	Montilla ARC	Tuyo, Balanga, Bataan Province	108
	2	Pag-Asa ARC	Pag-Asa Settlement, Tarlac Province	300
IV	1	Maulawin ARC	Calauag, Quezon Province	300
	2	Marinduque ARC	Marinduque Resettlement, Marinduque Province	300
V	1	Tinambac ARC	Tinambac, Camarines Sur Province	300
	2	Masbate Resett.	San Ramon, Uson, Masbate Pro.	300
VI	1	Abiera Estate	Kalibo, Aklan Province	283
	2	Tangaw ARC	Cabano, Jordan, Guimaras Province	292
VII	1	San Vicente ARC	Trinidad, Bohol Province	300
	2	San Francisco ARC	Ubay, Bohol Province	262
VIII	1	Marangog-Leyte ARC	Leyte Resettlement, Leyte Province	300
	2	San Miguel ARC	San Ishidro, Leyte Province	300
IX		Excluded		-
X	1	Silae ARC	Malaybalay, Bukinon Province	141
	2	Kinuman Norte ARC	Ozamiz City, Misamis Occidental Province	200
XI	1	Kipalili ARC	Asuncion, Davao Province	300
	2	Tinagcon ARC	Upper Labay & Bartolomelong General Santos, Sarangani Province	300
XII		Excluded		-
XIII	1	Mat-i ARC	Surigao City, Surigao Del Norte Province	200
	2	Balunan ARC	Tagina, Surigao Del Sur	no data
Total	1			3,018
Area	2			2,946

Note; Location of these selected Model Areas is shown in Annex-2.

Table-2 RECORD OF BENCH MARK STATION

1. Map

2. Data

Elevation

Address

Day of set down

Fundamental bench mark

3. Photograph

Table-3

QUALITY CONTROL SHEET

Project Name	Feasibility Study on Development of Agrarian Reform Communities in Marginal Areas	Consultants	Sanyu consultants Inc.
Model Area		Contractor	
Tera		Chief Surveyor	
Total Distance		Inspector	

Route	Distance	Error of Closure	Tolerance	Summary

Tolerance	$6 \text{ cm} + 6 \text{ cm}\sqrt{s}$ s:One way distance in km	Summary
Contractor		
Instrument Name	Level: Staff:	

Figure-1

LOCATION MAP OF MODEL AREAS

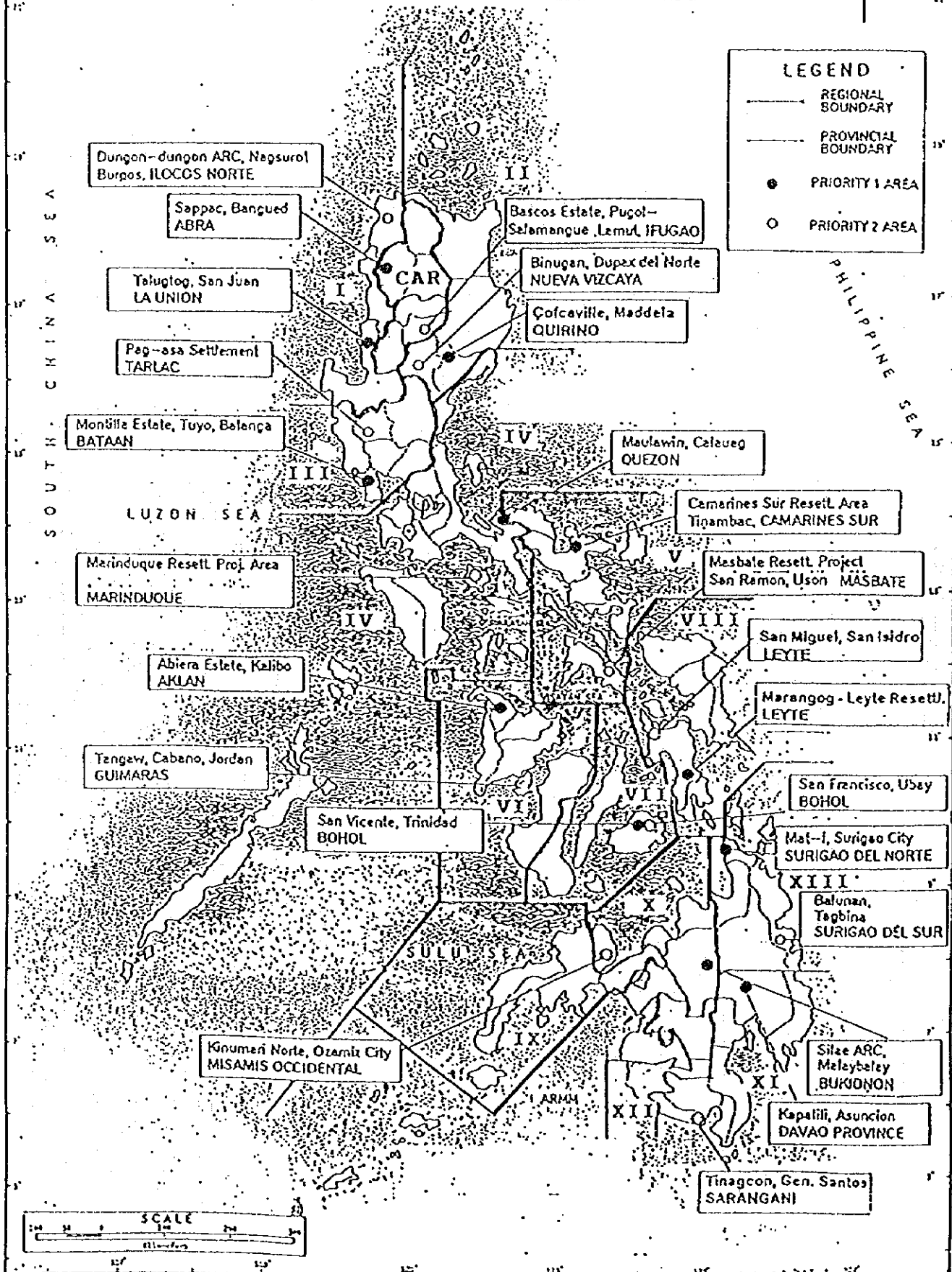
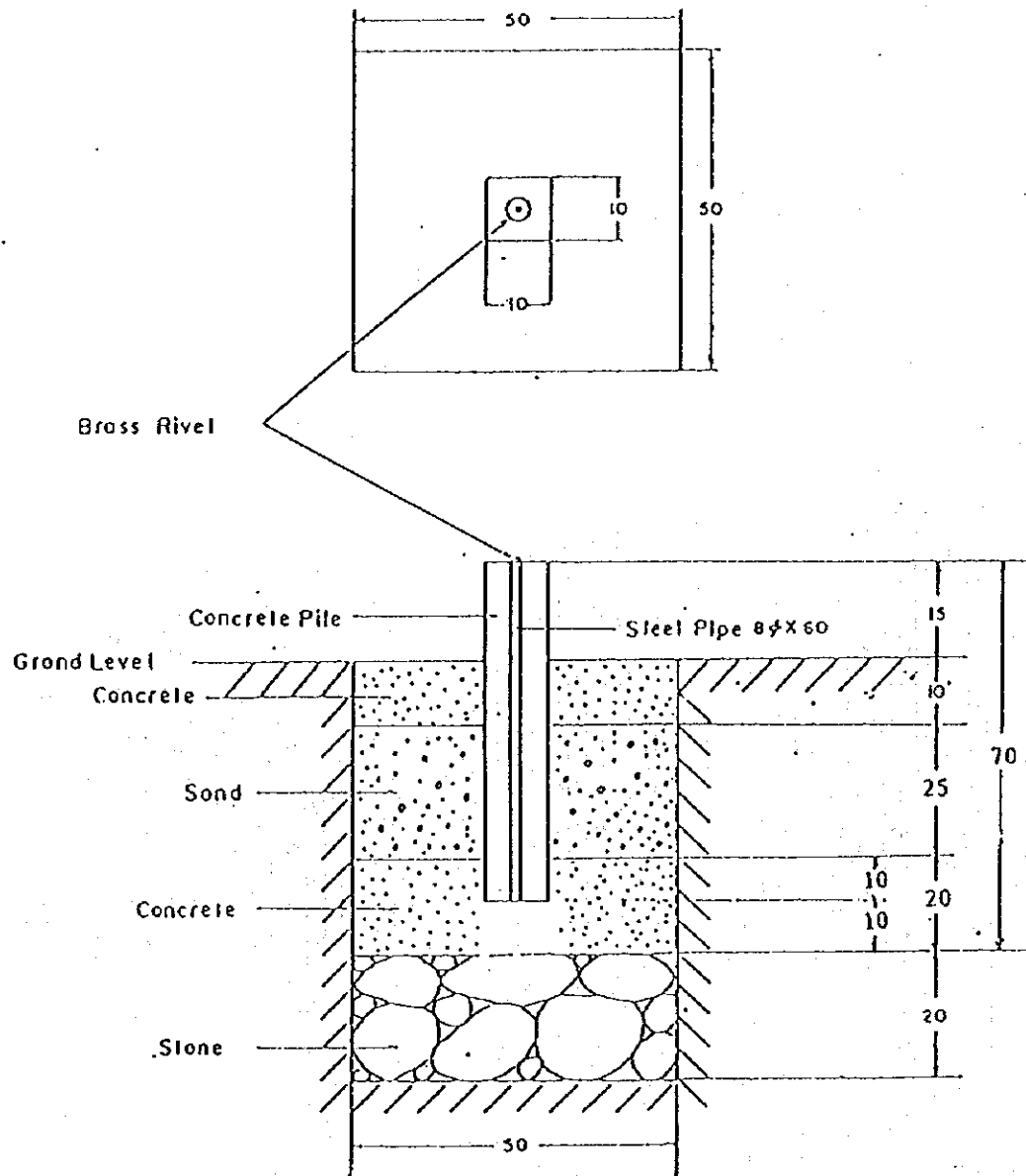


Figure-2 Bench Mark and Base Point.



; cm
Scale 1 : 10

TECHNICAL SPECIFICATION OF LONGITUDINAL AND CROSS SECTIONAL SURVEY

1. Scope of Works

Longitudinal and cross sectional survey shall be carried out by the Contractor at the following two Typical Model Areas as indicated in Figure-1, and the sites to be surveyed shall be indicated by the Consultants.

- Sappaac ARC, Bangued, Abra, CAR
- Marangog ARC, Hilongos, Leyte, Region-VIII

Longitudinal and cross sectional survey shall be made by ground survey method.

2. Units to be Used

The metric systems shall be used as the unit of measurement.

3. Language

Language to be used shall be English.

4. Method of Works

All the works to be done shall be executed in accordance with these specifications or in accordance with instruction and order which JICA expert may give the Contractor.

5. Special Requirements

In addition to these specifications, the followings are requested;

a) Outline of Survey

Outline of longitudinal and cross section survey works are as follows;

<u>Water and Irrigation Facilities</u>	<u>Sappac ARC</u>	<u>Marangog ARC</u>
Small Water Impounding Dam	Cross sectional survey of dam axis B=200 m, L=1,000m	
Diversion Dam		Longitudinal and cross sectional survey B=300 m, L=1,000m
Irrigation Canal		Longitudinal and cross sectional survey B=100 m, L=2,000m

b) Longitudinal and Cross Sectional Survey of Dam Axis

Longitudinal Survey of River/Creek Course at Proposed Dam Axis

- In order to know the longitudinal conditions of river/creek at the proposed dam site, leveling survey in height with distance measurements shall be carried out at both banks, river/creek bed, and existing structures.
- Coordinates to be used shall be local coordinates. Provision of Bench Mark(BM) shall be made on the basis of the specification described in Figure-2. The newly provided BM shall be connected with existing BM, which has been provided during the Phase-I topographic survey period.
- Survey shall be done in closure of loop on the both banks,
- Closure error shall not be greater than $10 \text{ mm} \sqrt{S}$ (where S is one way distance in kilometer)
- Longitudinal drawing shall be prepared on the basis of following criteria;
 - . Scale of longitudinal survey is 1/2,000 in horizontal and 1/200 in vertical, respectively.
 - . Drawing shall indicate the following columns; distance, accumulative distance, present river/creek bed elevation, present both bank elevation, proposed water level, proposed both bank elevation,

Cross Section Survey of River/Creek Course at Proposed Dam Axis

- In order to know the cross sectional conditions of river/creek at the proposed dam site and at every 50 m upstream of longitudinal section from the proposed dam site, cross section of leveling survey in height with distance measurements shall be carried out.
- Survey error shall not be greater than $5 \text{ cm} + 3 \text{ cm} \sqrt{S}$ (where S is one way distance in meter.)

- Scale of cross sectional survey shall basically be same to the vertical scale of the longitudinal survey.

c) Longitudinal and Cross Sectional Survey of Diversion Dam

The longitudinal and cross sectional survey of diversion dam shall be undertaken applying same specification mention in the case of small impounding dam.

d) Longitudinal and Cross sectional Survey of Irrigation Canal

Longitudinal Survey of Irrigation Canal

- The longitudinal survey of the proposed irrigation canal shall be made on the ground and pile heights of the proposed alignment of canal, which will be provided every 100 m.
- Survey shall be undertaken with same tolerance in case of dam axis survey, that is, closure error shall not be greater than $10 \text{ mm}\sqrt{S}$ (where S is one way distance in kilometer), and following criteria shall be used;
 - . Distance measurement interval : 150 m (max.)
 - . Minimum reading scale : 1 mm
- Bench Mark(BM) shall be provided by fixed structures or concrete pile at every 500 m approximately.
- Longitudinal drawing shall be prepared on the basis of following criteria;
 - . Scale of longitudinal survey is 1/2,000 in horizontal and 1/200 in vertical, respectively.
 - . Drawing shall indicate the following columns; distance, accumulative distance, present river/creek bed elevation, present both bank elevation, proposed water level, proposed both bank elevation,

Cross Section Survey of Canal Alignment

- In order to know the cross sectional conditions of the proposed canal alignment, leveling survey in height with distance measurements shall be carried out.
- Survey error shall not be greater than $5 \text{ cm} + 3 \text{ cm}\sqrt{S}$ (where S is one way distance in meter.)
- Scale of cross sectional survey shall basically be same to the vertical scale of the longitudinal survey.

6. Reporting

The Contractor shall submit to the Consultants a 10-day progress report.

7. Survey Period

The works shall be completed within one month, and final delivery date shall be end of October, 1996.

8. Final Products to be Delivered

The Contractor shall deliver to the Consultants following final products.

- | | | |
|--|---|--------|
| 1) Bench Mark survey results inclusive of record of
Bench Mark stations | : | 1 set |
| 2) Leveling survey results | : | 1 set |
| 3) Original drawing and duplicated sheets | : | 1 set |
| 4) Blue copy | : | 2 sets |
| 5) 10-day reports | : | 1 set |

ANNEX D. RURAL SOCIO-ECONOMIC SURVEY

D.1 Rural Socio-Economic Survey

1. The Survey

1.1 General

1.2 Approach and Methodology

1.2.1 Questionnaires

1.2.2 Sampling and Data gathering Procedures

1.2.3 Data Collection / Retrieval and Processing

1. THE SURVEY

1.1 General

The Rural Socio-economic Survey for the Feasibility Study on Development of Agrarian Reform Communities in Marginal Areas aims to determine the following:

- demographic, social and economic characteristics of the populace within the model areas of Agrarian Reform Communities (ARCs) and those of its immediate environs;
- farm systems and operations of these ARCs; and
- institutional set-ups currently involved in these ARCs.

Specifically, the Survey will provide information to be used in the planning and formulation of development plans. These are:

- population, educational attainment, labor force and employment
- land holding, tenure, utilization and related problems
- agricultural production, processing, marketing, support activities/services and infrastructure
- health and education levels/services and infrastructure and other social services/infrastructure
- government and non-government agencies/organizations that provide institutional support to these ARCs.

The Survey was conducted in two (2) batches:

Batch I - Farmers Interview Survey - For households located in identified ARCs, with focus on those residing/faarming within the marginal areas.

Batch II - Resources Inventory Survey - For municipalities/barangays that have jurisdiction over these ARCs. If needed information is available at the ARC level, such information was accounted.

1.2 Approach and Methodology

1.2.1 Questionnaires

Farmers Interview Survey

For Batch I, two (2) structured survey questionnaires were administered by enumerators, namely;

- 1) Questionnaire for Model (Outstanding) Farmers (Form A)
- 2) Questionnaire for Typical Farmers (Form B)

The questionnaires for farmers included items on:

- 1) General information which covered family composition (age, sex, family status), educational attainment, working conditions (on own farm, other farm, non-farm occupation)
- 2) Information on land such as: year of land transfer, farming experience, area and status of landholding, rental/leasehold fees
- 3) Information on farm systems and operations which included major crop production by season, use of farm inputs and destination of crop products (for model farmers only), quantity and farm gate prices of major products sold, inventory of livestock and poultry, inventory of capital investment (for model farmers only)
- 4) Information on social infrastructure included source of drinking and other domestic use water,
- 5) Information on income and expenditures covering non-farm income sources, debt, household expenditures (excluding farm expenses)
- 6) Information on one's involvement/practice, concept and perception on distributed land, infrastructure development, crops and animals, disaster and hazards, social problems, marketing practices, technical support services in crop production and animal husbandry, production credit and other similar obligations, rural industry/handicraft, and people organizations

Resources Inventory Survey

The questionnaire for the Resources Inventory Survey comprised of two (2) levels of data sources, namely: barangay and municipal/city. As stated earlier, additional information at the ARC level was gathered if found available. The questionnaire consists of:

- 1) General information which covered: land area, population, income, and labor force
- 2) Information on land and farming such as land use and area, land tenure, status of agrarian reform, crop area and production, livestock and poultry, inland fish culture and other farming activities
- 3) Water source/conditions including drinking/domestic water, surface and groundwater for irrigation
- 4) Agriculture support services/infrastructure covering agricultural extension and technology, seeds/seedling supply, post harvest facilities, agro-processing facilities, and veterinary clinics
- 5) Electricity/power and communication encompassing power/electricity source, postal services and telecommunication facilities
- 6) Road and transportation facilities/utilities
- 7) Health services/facilities to include its number of facilities, personnel, causes and rates of morbidity and mortality, nutritional levels and program, family planning and immunization program
- 8) Education services/facilities by level and indicators on participation and drop-out rates
- 9) Number and type of non-agricultural and industry/handicraft establishments
- 10) Welfare services/condition for women and children
- 11) Non-government organizations, its number, type of services/activities, etc.
- 12) Agricultural cooperatives/associations, its number, type of services and activities, etc.
- 13) Irrigators associations, its number, type of services and activities, etc.

- 14) Other people's organization/association its number, type of services and activities, etc.
- 15) Marketing such as destination and pricing of major products, support facilities, etc.

Section 3 presents the questionnaire forms for the Farmers Interview Survey and the Resources Inventory Survey.

1.2.2 Sampling and Data Gathering Procedures

Farmers Interview Survey

A sample of 50 farmers in each of the selected 12 ARCs for a total of 600 farmers was interviewed. The respondents were identified from the DAR-PARO/MARO Master List of Farmer Beneficiaries, applying a simplified stratified sampling based on the size of landholding. The targeted respondents are located in the following sitios:

<i>ARC</i>	<i>Sitios</i>
1. Sappa-ac ARC, Bangued, Abra	Proper, North, South, West, Pita, Pao
2. Talogtog ARC, San Juan, La Union	Upper, Lower, Centro, Norte, Sur,
3. Cofcaville ARC, Maddela, Quirino	Puroks 1, 2, 3, 4, Nagasat
4. Ilda. Montilla ARC, Balanga, Bataan	Tuyo Proper, Munting Batangas, Tenejero, Camacho, Kupang, San Jose, Pto. Rivas, Cadre
5. Maulawin ARC, Calauag, Quezon	Centro, Tigas, Mangga, Baybay, Pookan, Pelias
6. Pag-asa ARC, Tinambac, Cam. Sur	Centro, Zones 1, 2, 3, 4, 5, 6, 7, Macorag, Panikihan, San Isidro
7. Abierra Estate ARC, Altavas, Aklan	Itik, Cabangahan, Manaway, Agtacay, Gabi, Magtama, Mahawan, Nasunogan, Linagpaka
8. San Vicente ARC, Trinidad, Bohol	Puroks 1, 3, 5, 6, 7, Bayanihan, Pinaghiusa, Centro
9. Marangog ARC, Hilongos, Leyte	Proper, Caimito, Banban, Cabangagan, Iba, Gintulian
10. Silae ARC, Malaybalay, Bukidnon	Poblacion, Tolan
11. Kipalili ARC, Asuncion, Davao	Puroks 2, 4, 6, 8, 9, 10, New Alegria, San Nicolas, New Jagna, Sta. Cruz
12. Mat-i ARC, Surigao City, Sur.del N.	Centro, Puroks 1, 2, 8, 10, San Jose, Hubasan, Kagpangi, La Paz

The classification of landholdings is as follows:

- Small-scale - land area is less than or equal to 2 hectares
- Medium-scale - land area is between 2.1 hectares and 3 hectares
- Large-scale - land area is 3.1 hectares and over

In cases where the number of household farmers is less than 50 in the marginal areas, respondents were taken from outside these areas, however, they are still within the defined boundary of the ARCs. Adjustments were also made in cases where equal sharing on the number of respondents by classification cannot be achieved. In most instances, the land area of respondents in one particular ARC tends to concentrate in only one classification, i.e., majority of the farmers have an almost uniform land area.

For the survey of model/outstanding farmers (using Form A questionnaire), three (3) respondents were identified in consultation with the Municipal Agrarian Reform Officer (MARO). The remaining 47 respondents (using Form B questionnaire) were identified based on the above-mentioned stratified sampling method.

Resources Inventory Survey

A key informant interview and secondary data compilation were undertaken to fill up the pre-determined survey questionnaire for each of the identified ARCs. The local government units (provincial, municipal, barangay levels), government agencies/offices at the local level, non-government organizations, people's organizations/associations (including farmers associations) were contacted to provide information on the concerned barangay/municipality. Provincial governments and agencies were accessed to get their socio-economic profiles and development plans.

For each of the ARC area, interviews were primarily conducted with the barangay officials (Barangay Captain and/or Kagawad), the Municipal/Provincial Planning and Development Officers, the Municipal/Provincial Agriculturists, the Municipal/Provincial Health Officers, the District/Division Offices of the Education Department, the Social Welfare Offices, the Municipal/Provincial Agrarian Reform Officers and some officers of NGOs/POs.

1.2.3 Data Collection/Retrieval and Processing

A survey team leader supervised the collection/gathering of data together with the survey coordinators assigned in a particular ARCs. For the Farmers Interview Survey, enumerators were hired to conduct actual survey interviews. An orientation/briefing on how to conduct the interviews and to fill out the forms was provided before the enumerators were dispatched to the sites. For the Resources Inventory Survey, researchers were hired, with the survey coordinators providing guidance and direction. To facilitate the interview process of both surveys, local staff (enumerators and researchers) were employed.

The enumerators and researchers submitted the accomplished survey forms for data processing and encoding. To ensure accuracy of the data, the data processors edited and validated some items before feeding the information to the computer. Fox Pro program was used in the processing of data. The data was later converted into MS-Excel tables.

RURAL SOCIO-ECONOMIC SURVEY (A)

Farm No. --

Name of Farmer _____
 Address Sitio : _____
 Barangay : _____
 Municipality : _____
 Province : _____

Date interviewed: _____, 1996
 Enumerator : _____
 Checked by : _____

1. Land Transfer under CARP : Year _____
2. Farming Experience in Transferred Land : Since (Year) _____
3. Family Composition and Working Conditions: _____

No.	Family Composition at Present				Education	Working Conditions (Jul., 1984 to Jun., 1995)						
	Age	Sex		Family Status		Worked on Your Farm		Worked on Other Farms		Non-farm Occupation		
		Male	Female			Working Status	Days Worked (d/year)	Working Status	Days Worked (d/year)	Job Sites	Working Status	Days Worked (d/year)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
1						R, T		R, T, D			R, T, D	
2						R, T		R, T, D			R, T, D	
3						R, T		R, T, D			R, T, D	
4						R, T		R, T, D			R, T, D	
5						R, T		R, T, D			R, T, D	
6						R, T		R, T, D			R, T, D	
7						R, T		R, T, D			R, T, D	
8						R, T		R, T, D			R, T, D	
9						R, T		R, T, D			R, T, D	
10						R, T		R, T, D			R, T, D	
11						R, T		R, T, D			R, T, D	
12						R, T		R, T, D			R, T, D	

Note:

Col.	Items	Code	Description	Col.	Items	Code	Description
(4)	Family Status	1+	head of family	(6)	working Status	R+	regular employee/worker
		2+	spouse			T+	temporary employee/worker
		3+	children			D+	per day basis
		4+	son-in-law/ daughter-in-law	(10)	Job Site	1+	within the ARC area
		5+	parent			2+	outside the ARC area but within the municipality
		6+	relatives			3+	within the province but outside the municipality
		7+	servant/employee			4+	outside the province
		8+	others			5+	others, specify
(5)		1+	no formal education				
		2+	elementary level				
		3+	elementary graduate				
		4+	highschool level				
		5+	highschool graduate				
		6+	college level				
		7+	college graduate				
		8+	vocational/technical				
		9+	others, specify				

7. Use of Farm Input by Crop (Major Six Crops)

1. Crop _____
 2. Variety _____
 3. Planted Area _____ ha

Item	Unit	Total	Per ha	Remark (Specification)
a. Seed / seedling	Kg			
b. Chemical Fertilige	Kg			
-	Kg			
-	Kg			
-	Kg			
-	Kg			
c. Compost / Manure	Kg			
d. Pesticides				
- Pesticides	Kg/l			
- Insecticides	Kg/l			
d. Herbicides				
-	Kg/l			
-	Kg/l			
f. Man power				
- Family Labor	man-hr			
- Hired Labor	man-hr			
g. Animal power				
- Land preparation	anim.-hr			
- Other works	anim.-hr			
h. Machinery				
- Land preparation	hr			
- Seeding	hr			
- Transplanting	hr			
- Threshing	hr			
- Other works	hr			

Note: Major crops.....3crops in wet season
 2crops in dry season
 perennial=1crops

4. Area of Land Holding (As of Jun., 1995) in Hectare

Land Items	Own (Excl. Lease (1)	Rent From (2)	Subtotal (3)	Lease To (4)	Total (5)=(3)+(4)
1. Cultivated Land for Temporary Crops					
2. Cultivated Land for Permanent Crops*1					
3. Idle Land (Cultivable Wasted)					
4. Homestead					
5. Others (Specify:)					
Total					

Note: *1... including orchard

5. Rate of Rent and Leased Land Fee(Jul., 1994-Jun., 1995)

Items	1. Temporary Crops Field	2. Field for Orchard or Permanent Crops	3. Others *1	Total
1. Rent fee per year				
a. Paid in cash(Peso/ha) (1)				
b. Paid in kind (Kg/ha) (2)				
(Specify kind)				
(Kg/ha) (3)				
Others((4)				
2. Lease fee per year				
a. Received in cash(Peso) (5)				
b. Received in kind (Kg) (6)				
(Specify kind)				
(Kg) (7)				
Others(; (8)				

Note: *1 ... Other land including the area of house lot and others.

6. Major Ten Crops Production(Jul,1994-Jun,1995)

Name of Crop	Growing Period	Major Varieties	Cropping Pattern	Crop Production		Crop Damage		
				Planted Area (ha)	Production (kg)	Drought	Flood Drainage	Others (Specify)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
(Wet Season)					M			
1.					B			
(Wet Season)					M			
2.					B			
(Wet Season)					M			
3.					B			
(Wet Season)					M			
4.					B			
(Dry Season)					M			
5.					B			
(Dry Season)					M			
6.					B			
(Dry Season)					M			
7.					B			
(Dry Season)					M			
8.					B			
(Perennial)					M			
9.					B			
(Perennial)					M			
10.					B			

Note:

Col.	Item	Code / Description
(2)	Growing period	Ex. Jul.-Nov. (From planting to harvesting)
(3)	Major Variety	1= high yielding/improved varieties (specify:) 2= local/traditional varieties (specify:)
(4)	Cropping Pattern	1= continuous single cropping 2= rotated cropping (two crops per year) 3= rotated cropping (more than three crops per year) 4= others (specify)
(6)		M.....main products B.....by products (Ex. straw/stalks)
(7), (8)	Crop Damage	1= severely damaged 2= moderately damaged 3= no damage

8. Destination of Crop Products, Major Six Crops(Jul., 1994-Jun., 1995)

Crop	1.	2.	3.	4.	5.	6.
Items	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
1. Sold	M	M	M	M	M	M
	B	B	B	B	B	B
2. Family consumption	M	M	M	M	M	M
	B	B	B	B	B	B
3. Seeds	M	M	M	M	M	M
	B	B	B	B	B	B
4. Feeds	M	M	M	M	M	M
	B	B	B	B	B	B
5. Payment for farm works	M	M	M	M	M	M
	B	B	B	B	B	B
6. Stock	M	M	M	M	M	M
	B	B	B	B	B	B
7. Others(Specify)	M	M	M	M	M	M
	B	B	B	B	B	B

9. Quantity and Farm-gate Price of Major Six Sold Products(Jun, 1994-Jun., 1995)

Main Products	to Whom sold	Merchant(Private)			Others()		
		Quantity	Unit Price	Form of Selling	Quantity	Unit Price	Form of Products
		(1) Kg	(2) Peso	(3)	(4) Kg	(5) Peso	(6)
1.							
2.							
3.							
4.							
5.							
6.							

Note: (2) . . . In case of Pakiao indicate at Peso/ha
 (3) . . . Form of selling: paddy, white rice, fresh, dried, with shell and etc.

10. Inventory of Livestock and Poultry

Items	Unit	1. Cattle	2. Carabaoes	3. Goat	4. Swine	5. Chicken (Meat)	6. Chicken (Egg)
No. of head Jun., 1995	No.						
No. of sold Jul. 94-Jun'95	No.						
	Peso						

11. Inventory of Capital Investment at Present

Items	Number	Used Year (Peso)	Price	Present Conditions
1. House(dwelling)				
2. Shed for animals				
3. Tractor, 4wheel, Horse Power... (HP) *2				
4. Hand Tractor, Horse Power... (HP) *2				
5. Irrigation Pump Set... (HP)				
6. Sprayer				
7. Other Machineries for Cropping				
a. (Name Capacity				
b. {				
c. {				
8. Plow for Animal				
9. Harrow for Animal				
10. Bull Cart				
11. Thresher ... (by man-power, by engine)				
12. Rice Mills(capacity)				
13. Bicycle				
14. Motor bicycle				
15. Truck ... (Quantity of ventilation cc)				
16. Private Car ... Quantity of ventilation cc)				
17. TV set				
18. Radio set				
16. Others				

Note: *1...buying price of new one *2...including attachment

12. Source of Drinking Water, Other Domestic Water and Fuel

Drinking Water			Other Domestic Water		
Source	Distance	Amount	Source	Distance	Amount
(1)	(2)	(3)	(4)	(5)	(6)
	m			m	

Note: Co Item Code / Description

(1), (4) Water Source

1= rain
2= river
3= swamp or pond
4= deep well
5= shallow well
6= streame/fountain

(3), (6)

1= sufficient year round
2= sufficient in wet season
3= insufficient year round

(2), (4) Distance m in one way

13. Non-farm Income Source(Jul, 1994-Jun, 1995)

Source	Annual	Income
	In cash (Peso)	In kind
1. Renting Fee of Working Animals to Others		
2. Renting Fee of Farm Machineries and or Accessories to others		
3. Interest Earned on Money Loaned to Others		
4. Allowance from Relative and Others		
5. Receipt of Gift from Relative and Others		
6. Others(specify)		
Total		

Note: In Cash 1=less than 3,000Peso, 2= 3,000-6,000Peso, 3=6,000-10,000Peso
5=more than 10,000Peso

14. Debt (Jul., 1994-Jun., 1995)

Purpose	Loan(Jul., 1994-Jun 1995) Per ha.				Remaining Debt (Jun, 1995) (5)	Repayment of Debt (Jul., 1994-Jun, 1995)		Remarks
	Source of Loan (1)	Cash (Peso) (2)	In kind			Principal (6) (%)	Interest (7) (%/year)	
			Item (3)	Kg (4)				
1. Major Three Crops Production								
a.								
b.								
c.								
2. Livestok								
3. Machinery								
4. Land								
5. Household Facilities								
6. Education								
7. Others(Specify)								
Total								

Note:	Col.	Item	Code	Description
	(1)	Source of Loan	1=	merchant
			2=	land owner
			3=	relatives
			4=	neighbors
			5=	bank
			6=	others(specify)
	(2)	Cash loan	1=	less than 5,000Peso/ha
			2=	5,000-10,000Peso/ha
			3=	more than 10,000Peso/ha
	(3)	In kind	In case of "Pakiao"(Peso/ha)	
			1=	Fertilizers
			2=	Chemicals
			3=	Seeds/seedlings
			4=	others(specify)
	(6)	Repaid amount	1=	0% of remaining debt
			2=	0-50%
			3=	50-100%
			4=	100%

15. Household Expenditure Excluding Farm Expense

Items		Amount Per Month		Amount per year (Peso)	
		Payed In Cash (Peso)	Payed In Kind (Peso/Kg)		
1. Food per month	a. Rice, corn and other staple food				
	b. Beans				
	c. Eggs				
	d. Neat	i. Pork			
		ii. Beef			
		iii. Poultry			
		iv. Milk			
		v. Others()			
		total			
	e. Fish	i. Freshwater fish			
		ii. Marine fish			
		Total			
		f. Vegetables			
	g. Other viands				
	Sub-total				
2. Soft drinks, beverages and etc. per month					
3. Tobacco/Cigarettes per month					
4. Housing per year	a. House rent				
	b. House improvement				
	c. House maintenance/operation				
	d. House furnishing and equipment				
	Sub-total				
5. Fuel for light and water per year					
6. Clothing per year					
7. Personal expense per year					
8. Transportation and communication per year					
9. Recreation per year					
10. Education per year					
11. Tax per year					
12. Medical expense					
13. Others per year()					
Total					

16. Information About Distributed Land

(1) Do you have enough land to cultivate ?

- a. Sufficient _____
- b. Insufficient _____, please specify the land area you would consider as sufficient in _____ ha

(2) Of the land distributed under CARP, what is the approximate area you cultivate ?

- a. Cultivated land : _____ ha(_____ % of total distributed land)
- b. Cultivable wasted land: _____ ha(cultivated previously)
- c. Uncultivable land : _____ ha

(3) Do you have any problems on the cultivated land in the marginal area ?

- a. Shallow top soils _____
- b. Stony /gravelly soils _____
- c. Inadequately fertile _____
- d. Acidic soils _____
- e. Steep land _____
- f. Damaged by animals and birds _____
- g. Others, please specify _____

(4) If you have a land which is uncultivated/wasted in the marginal area, what is the reason for its non-cultivation ?

- a. Lack of labor _____
- b. Lack of animal power _____
- c. Lack of fund to buy farm inputs _____
- d. Soil problems, _____ please specify _____
- e. No water sources _____
- f. Inaccessible _____
- i. Others, please specify _____

(5) Do you need to develop your farmland in the marginal area ?

- a. Yes _____ b. No _____

(6) If Yes, what kind of land development do you need ?

- a. Construction of on-farm roads _____
- b. Remedy of soil acidity _____
- c. Deep plowing/ subsoil breaking _____
- d. Land leveling _____
- e. Application of green manure and organic fertilizers _____
- f. Construction of irrigation facilities _____

g. Construction of drainage facilities _____

h. Others, please specify _____

17. Information About Infrastructure Development

(1) What kind of transporting facilities do you usually use in going to your barangay hall and how long does it take you to reach your destination ?

_____ minutes by _____

(2) What kind of transporting facilities do you usually use in going to the poblacion and how long does it take you to reach your destination ?

_____ minutes by _____

(3) What kind of transporting facilities do you usually use in bringing your produces to the market and how long does it take you to reach your destination ?

_____ minutes by _____

(4) Do you need to construct/rehabilitate any water supply in your barangay ?

a. Yes, _____ specify type of water supply _____

b. No _____

(5) Do you have electricity ?

a. Yes _____, If Yes, please specify your average monthly consumption _____ KWH/month

(6) For serious illness/diseases, where do you go for medical attention ?

a. Barangay/rural health center at _____

b. Private clinic at _____

c. Local arbularyo at _____

d. Public hospital at _____

e. Others, please specify _____

(7) What health-related facilities would you consider as lacking in your community ?

a. Availability of health center _____

b. Availability medical personnel _____

c. Availability of medicines and others _____

d. Availability of health care services _____

e. Others, please specify _____

18. Information About Crops and Animals

(1) What crop do you prefer to grow in the near future ?

<u>Kind of Crops</u>	<u>Growing Period</u>
a. Palay _____	(-)
b. Corn _____	(-)
c. Mungbean _____	(-)
d. Vegetables, please specify _____	
e. Fruit trees, please specify _____	
f. Coconut _____	
g. Agro-forestry _____ please specify crops and trees	

h. Other, please specify _____	

(2) What animals do you prefer to introduce or increase the number in the near future ?

	<u>To introduce</u>	<u>To increase</u>
a. Carabaos	_____	_____
b. Cattle for beef	_____	_____
c. Goats	_____	_____
d. Swine	_____	_____
e. Chicken for meat	_____	_____
f. Chicken for egg	_____	_____
g. Bee keeping	_____	_____
h. Others, please specify _____		

19. Information About Disasters/Hazards

- (1) Have you encountered any land sliding in your land during the past five (5) years ? a. Yes ___ b. No ___
- (2) Have you encountered any significant flooding in your land during the past five(5) years? a. _____ If Yes, what year _____
b. No ___
- (3) Have you encountered any significant soil erosion during the past five (5) years? a. Yes ___ b. No ___
- (4) Have you encountered any significant problems of water/ air pollution during past five(5) years ?
a. Yes ___ If Yes, what _____
b. No ___

(5) Have you encountered any other significant disaster and hazard like typhoon and fire in your land during the past five(5) years?

a. Yes ___ If Yes, what _____

b. No ___

20. Information About Social Problems for Past Five(5) Years

(1) Do you have any troubles with the previous occupant/owner of the land ?

a. ___ If Yes, please specify _____

b. No _____

(2) Do you have any other significant social problems related to farming ?

a. Yes ___ If Yes, what _____

b. No _____

21. Information About Marketing Practices

(1) Where do you usually sell your farm produce ?

a. NFA ___ b. Local traders ___ c. Cooperative ___

d. Consumers ___ e. Others, specify _____

(2) Do you think you are getting a reasonable price for your marketed produce ?

a. Yes ___ b. No ___ If No, why _____

(3) What are your problems in marketing your produce ? Give at least three(3) problems like unreasonable price, difficulty of transportation, mentioning them in the order of most serious to less serious problems ?

(i) _____

(ii) _____

(iii) _____

22. Information About Technical Supporting Services on Crop Production and Animal Husbandry

(1) Who provides guidance in your farming operation ?

a. Provincial/Municipal Technologist ___

b. DAR Development Facilitator ___ c. NGOs _____

d. Others _____

(2) Are you satisfied with the services provided by the above mentioned ?

a. Yes _____ b. No _____ If No, reason ?

(3) What type of agricultural support services do you need for your farming operation of crop production and animal husbandry ?

a. Crop production technology _____

b. Animal husbandry technology _____

c. Information on new seeds /seedlings _____

d. Training on farming technique _____

e. Supply of new seeds/seedlings _____

f. Others, please specify _____

23. Information About Production Credit and Other Similar Obligations

(1) Are you a self-financed farmer ?

(2) What are your sources of farm credit ?

a. Land Bank _____ b. Rural Bank _____ c. PNB _____

d. Cooperative _____ e. NGOs specify _____

f. Others, please specify _____

(3) How much loan do you usually obtain for your farm on a hectare basis ?

Peso _____

(4) Do you think such production credit is adequate enough for your farming needs ? a. Yes _____ b. No _____

(5) Do you pay loans regularly ?

a. Yes _____ b. No _____ If No, reason _____

24. Information About Rural Industry/Handy Craft and Other Activities than crop production and animal husbandry

(1) Do you or any member of family have any job other than farming ?

a. Yes If Yes, what job _____

b. No _____

(2) Among the lists below which type of activity are you willing to engaged in indicating if you have the necessary corresponding skill ?

<u>Kind of Production</u>	<u>Willingness</u>	<u>Possession of Skill</u>
a. Mushroom production	<u>Y,N</u>	<u>Y,N</u>
b. Charcoal production	<u>Y,N</u>	<u>Y,N</u>
c. Firewood production	<u>Y,N</u>	<u>Y,N</u>
d. Bamboo timber production	<u>Y,N</u>	<u>Y,N</u>
e. Bamboo shoot production	<u>Y,N</u>	<u>Y,N</u>
f. Coconut oil extraction	<u>Y,N</u>	<u>Y,N</u>
g. Coconut charcoal making	<u>Y,N</u>	<u>Y,N</u>
h. Coconut lumber processing	<u>Y,N</u>	<u>Y,N</u>
i. Fish culture	<u>Y,N</u>	<u>Y,N</u>
j. Handy craft making	<u>Y,N</u>	<u>Y,N</u>
k. Sewing/embroidering	<u>Y,N</u>	<u>Y,N</u>
l. Others, specify _____		<u>Y,N</u>

25. Information About Peoples' Organization

(1) Are you a member of following peoples' organization ?

a. Cooperatives Y,N If Yes specify _____

b. Irrigators' Association Y,N

c. Civic organization Y,N If Yes specify _____

d. Others specify _____

(2) When you are member of farmers' organization, do you get any kind of activities/services as the members of the farmers' organization ?

a. Group marketing of farm produces Y,N

b. Group marketing of farm inputs Y,N

c. Availing of farm credit Y,N

d. Availing of farming technology Y,N

e. Availing of new seeds/seedlings Y,N

f. Intermediation of land rent and lease Y,N

g. Group operation and maintenance of irrigation system Y,N

h. Collective use of farm machinery Y,N

i. Other activities/services, please specify the reason _____

RURAL SOCIO-ECONOMIC SURVEY (RS)

Farm No. _____

Name of Farmer _____
 Address Site : _____
 Barangay : _____
 Municipality : _____
 Province : _____

Date interviewed: _____, 1986
 Enumerator : _____
 Checked by : _____

1. Land Transfer under CAPP : Year _____
2. Farming Experience in Transferred Land : Since (Year) _____
3. Family Composition and Working Conditions: _____

No.	Family Composition at Present				Education	Working Conditions (Jul., 1984 to Jun., 1985)						
	Age	Sex		Family Status		Worked on Your Farm		Worked on Other Farms		Non-farm Occupation		
		Male	Female			Working Status	Days Worked (d/year)	Working Status	Days Worked (d/year)	Job Sites	Working Status	Days Worked (d/year)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
1						R, I		R, I, D			R, I, D	
2						R, I		R, I, D			R, I, D	
3						R, I		R, I, D			R, I, D	
4						R, I		R, I, D			R, I, D	
5						R, I		R, I, D			R, I, D	
6						R, I		R, I, D			R, I, D	
7						R, I		R, I, D			R, I, D	
8						R, I		R, I, D			R, I, D	
9						R, I		R, I, D			R, I, D	
10						R, I		R, I, D			R, I, D	
11						R, I		R, I, D			R, I, D	
12						R, I		R, I, D			R, I, D	

Note:

Col.	Items	Code	Description	Col.	Items	Code	Description		
(4)	Family Status	1+	head of family	(6)	working Status	R+	regular employee/worker		
		2+	spouse			I+	temporary employee/worker		
		3+	children			0+	per day basis		
		4+	son-in-law/ daughter-in-law			(10)	Job Site	1+	within the ARC area
		5+	parent					2+	outside the ARC area but within the municipality
		6+	relatives					3+	within the province but outside the the municipality
		7+	servant/employee					4+	outside the province
		(5)				8+	others	5+	others, specify
1+	no formal education								
2+	elementary level								
3+	elementary graduate								
4+	highschool level								
		5+	highschool graduate						
		6+	college level						
		7+	college graduate						
		8+	vocational/technical						
		9+	others, specify						

4. Area of Land Holding (As of Jun., 1995) in Hectare

Land Items	Own (Ecl. Lease (1)	Rent From (2)	Subtotal (3)	Lease To (4)	Total (5)=(3)+(4)
1. Cultivated Land for Temporary Crops					
2. Cultivated Land for Permanent Crops*1					
3. Idle Land (Cultivable Wasted)					
4. Homestead					
5. Others (Specify:)					
Total					

Note: *1 ... including orchard

5. Rate of Rent and Leased Land Fee(Jul., 1994-Jun., 1995)

Items	1. Temporary Crops Field	2. Field for Orchard or Permanent Crops	3. Others *1	Total
1. Rent fee per year				
a. Paid in cash(Peso/ha) (1)				
b. Paid in kind (Kg/ha) (2)				
(Specify kind)				
(Kg/ha) (3)				
Others((4)				
2. Lease fee per year				
a. Received in cash(Peso) (5)				
b. Received in kind (Kg) (6)				
(Specify kind)				
(Kg) (7)				
Others(; (8)				

Note: *1 ... Other land including the area of house lot and others.

6. Major Ten Crops Production(Jul.1994-Jun.1995)

Name of Crop	Growing Period	Major Varieties	Cropping Pattern	Crop Production		Crop Damage		
				Planted Area (ha)	Production (kg)	Drought	Flood Drainage	Others (Specify)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. (Wet Season)					M B			
2. (Wet Season)					M B			
3. (Wet Season)					M B			
4. (Wet Season)					M B			
5. (Dry Season)					M B			
6. (Dry Season)					M B			
7. (Dry Season)					M B			
8. (Dry Season)					M B			
9. (Perennial)					M B			
10. (Perennial)					M B			

Note:

Col.	Item	Code / Description
(2)	Growing period	Ex. Jul.-Nov. (From planting to harvesting)
(3)	Major Variety	1= high yielding/improved varieties (specify:) 2= local/traditional varieties (specify:)
(4)	Cropping Pattern	1= continuous single cropping 2= rotated cropping(two crops per year) 3= rotated cropping(more than three crops per year) 4= others(specify)
(6)		M.....main products B.....by products(Ex. straw/stalks)
(7), (8)	Crop Damage	1= severely damaged 2= moderately damaged 3= no damage

7. Quantity and Farm-gate Price of Major Six Sold Products (Jun, 1994-Jun., 1995)

Main Products	to Whom sold	Merchant (Private)			Others ()		
		Quantity (1) Kg	Unit Price (2) Peso	Form of Selling (3)	Quantity (4) Kg	Unit Price (5) Peso	Form of Products (6)
1.							
2.							
3.							
4.							
5.							
6.							

Note: (2) . . . In case of Pakiao indicate at Peso/ha
 (3) . . . Form of selling: paddy, white rice, fresh, dried, with shell and etc.

8. Inventory of Livestock and Poultry

Items	Unit	1. Cattle	2. Carabaos	3. Goat	4. Swine	5. Chicken (Meat)	6. Chicken (Egg)
No. of head Jun., 1995	No.						
No. of sold Jul. 94-Jun '95	No.						
	Peso						

9. Source of Drinking Water, Other Domestic Water and Fuel

Drinking Water			Other Domestic Water		
Source	Distance	Amount	Source	Distance	Amount
(1)	(2)	(3)	(4)	(5)	(6)

Note: Co Item Code / Description
 (1), (4) Water Source
 1= rain
 2= river
 3= swamp or pond
 4= deep well
 5= shallow well
 6= stream/fountain

(3), (6)
 1= sufficient year round
 2= sufficient in wet season
 3= insufficient year round

(2), (4) Distance m in one way

10. Non-farm Income Source(Jul, 1994-Jun, 1995)

Source	Annual	Income
	In cash (Peso)	In kind
1. Renting Fee of Working Animals to Others		
2. Renting Fee of Farm Machineries and or Accessories to others		
3. Interest Earned on Money Loaned to Others		
4. Allowance from Relative and Others		
5. Receipt of Gift from Relative and Others		
6. Others(specify _____)		
Total		

Note: In Cash 1=less than 3,000Peso, 2= 3,000-6,000Peso, 3=6,000-10,000Peso
5=more than 10,000Peso

11. Debt (Jul., 1994-Jun., 1995)

Purpose	Loan(Jul., 1994-Jun 1995) Per ha.				Remaining Debt (Jun, 1995)	Repayment of Debt (Jul., 1994-Jun. 1995)		Remarks
	Source of Loan (1)	Cash (Peso) (2)	In kind Item (3)	Kg (4)		Principal (6) (%)	Interest (7) (%/year)	
1. Major Three Crops Production								
a.								
b.								
c.								
2. Livestok								
3. Machinery								
4. Land								
5. Household Facilities								
6. Education								
7. Others(Specify)								
Total								

Note:

Col.	Item	Code	Description
(1)	Source of Loan	1- 2- 3- 4- 5- 6-	merchant land owner relatives neighbors bank others(spx others(specify)
(2)	Cash loan	1- 2- 3-	less than 5,000Peso/ha 5,000-10,000Peso/ha more than 10,000Peso/ha
(3)	In kind	In case of 1- 2- 3- 4-	"Pakiao" (Peso/ha) Fertilizers Chemicals Seeds/seedlings others(spx others(specify)
(6)	Repaid amount	1- 2- 3- 4-	0% of remaining debt 0-50% 50-100% 100%

12. Household Expenditure Excluding Farm Expense

Items		Amount Per Month		Amount per year (Peso)	
		Payed In Cash (Peso)	Payed In Kind (Kg)		
1. Food per month	a. Rice, corn and other staple food				
	b. Beans				
	c. Eggs				
	d. Meat	i. Pork			
		ii. Beef			
		iii. Poultry			
		iv. Milk			
		v. Others()			
		total			
	e. Fish	i. Freshwater fish			
		ii. Marine fish			
	Total				
	f. Vegetables				
	g. Other viands				
	Sub-total				
2. Soft drinks, beverages and etc. per month					
3. Tobacco/Cigarettes per month					
4. Housing per year	a. House rent				
	b. House improvement				
	c. House maintenance/operation				
	d. House furnishing and equipment				
	Sub-total				
5. Fuel for light and water per year					
6. Clothing per year					
7. Personal expense per year					
8. Transportation and communication per year					
9. Recreation per year					
10. Education per year					
11. Tax per year					
12. Medical expense					
13. Others per year()					
Total					

13. Information About Distributed Land

(1) Do you have enough land to cultivate ?

- a. Sufficient _____
- b. Insufficient _____ please specify the land area you would consider as sufficient in _____ ha

(2) Of the land distributed under CARP, what is the approximate area you cultivate ?

- a. Cultivated land : _____ ha(_____ % of total distributed land)
- b. Cultivable wasted land: _____ ha(cultivated previously)
- c. Uncultivable land : _____ ha

(3) Do you have any problems on the cultivated land in the marginal area ?

- a. Shallow top soils _____
- b. Stony /gravelly soils _____
- c. Inadequately fertile _____
- d. Acidic soils _____
- e. Steep land _____
- f. Damaged by animals and birds _____
- g. Others, please specify _____

(4) If you have a land which is uncultivated/wasted in the marginal area, what is the reason for its non-cultivation ?

- a. Lack of labor _____
- b. Lack of animal power _____
- c. Lack of fund to buy farm inputs _____
- d. Soil problems, _____ please specify _____
- e. No water sources _____
- f. Inaccessible _____
- i. Others, please specify _____

(5) Do you need to develop your farmland in the marginal area ?

- a. Yes _____ b. No _____

(6) If Yes, what kind of land development do you need ?

- a. Construction of on-farm roads _____
- b. Remedy of soil acidity _____
- c. Deep plowing/ subsoil breaking _____
- d. Land leveling _____
- e. Application of green manure and organic fertilizers _____
- f. Construction of irrigation facilities _____

g. Construction of drainage facilities _____

h. Others, please specify _____

14. Information About Infrastructure Development

(1) What kind of transporting facilities do you usually use in going to your barangay hall and how long does it take you to reach your destination ?

_____ minutes by _____

(2) What kind of transporting facilities do you usually use in going to the poblacion and how long does it take you to reach your destination ?

_____ minutes by _____

(3) What kind of transporting facilities do you usually use in bringing your produces to the market and how long does it take you to reach your destination ?

_____ minutes by _____

(4) Do you need to construct/rehabilitate any water supply in your barangay ?

a. Yes, _____ specify type of water supply _____

b. No _____

(5) Do you have electricity ?

a. Yes _____, If Yes, please specify your average monthly consumption

_____ kWh/month _____

(6) For serious illness/diseases, where do you go for medical attention ?

a. Barangay/rural health center at _____

b. Private clinic at _____

c. Local arbularyo at _____

d. Public hospital at _____

e. Others, please specify _____

(7) What health-related facilities would you consider as lacking in your community ?

a. Availability of health center _____

b. Availability medical personnel _____

c. Availability of medicines and others _____

d. Availability of health care services _____

e. Others, please specify _____

15. Information About Crops and Animals

(1) What crop do you prefer to grow in the near future ?

- | <u>Kind of Crops</u> | <u>Growing Period</u> |
|---|-----------------------|
| a. Palay _____ | (-) |
| b. Corn _____ | (-) |
| c. Mungbean _____ | (-) |
| d. Vegetables, please specify _____ | |
| e. Fruit trees, please specify _____ | |
| f. Coconut _____ | |
| g. Agro-forestry _____ please specify crops and trees | |
| _____ | |
| h. Other, please specify _____ | |

(2) What animals do you prefer to introduce or increase the number in the near future ?

- | | <u>To introduce</u> | <u>To increase</u> |
|---------------------------------|---------------------|--------------------|
| a. Carabaos | _____ | _____ |
| b. Cattle for beef | _____ | _____ |
| c. Goats | _____ | _____ |
| d. Swine | _____ | _____ |
| e. Chicken for meat | _____ | _____ |
| f. Chicken for egg | _____ | _____ |
| g. Bee keeping | _____ | _____ |
| h. Others, please specify _____ | | |

16. Information About Disasters/Hazards

(1) Have you encountered any land sliding in your land during the past five (5) years ? a. Yes ___ b. No ___

(2) Have you encountered any significant flooding in your land during the past five(5) years? a. _____ If Yes, what year _____
b. No ___

(3) Have you encountered any significant soil erosion during the past five (5) years? a. Yes ___ b. No ___

(4) Have you encountered any significant problems of water/ air pollution during past five(5) years ?

a. Yes ___ If Yes, what _____

b. No ___

- (5) Have you encountered any other significant disaster and hazard like typhoon and fire in your land during the past five(5) years?
- a. Yes ___ If Yes, what _____
- b. No ___

17. Information About Social Problems for Past Five(5) Years

- (1) Do you have any troubles with the previous occupant/owner of the land ?
- a. ___ If Yes, please specify _____
- b. No _____
- (2) Do you have any other serious social problems related to farming ?
- a. Yes ___ If Yes, what _____
- b. No _____

18. Information About Marketing Practices

- (1) Where do you usually sell your farm produce ?
- a. NFA ___ b. Local traders ___ c. Cooperative ___
- d. Consumers ___ e. Others, specify _____
- (2) Do you think you are getting a reasonably price for your marketed produce ?
- a. Yes ___ b. No ___ If No, why _____
- (3) What are your problems in marketing your produce ? Give at least three(3) problems like unreasonable price, difficulty of transportation, mentioning them in the order of most serious to less serious problems ?
- (i) _____
- (ii) _____
- (iii) _____

19. Information About Technical Supporting Services in Crop Production and Animal Husbandry

- (1) Who provides guidance in your farming operation ?
- a. Provincial/Municipal Technologist ___
- b. DAR Development Facilitator ___ c. NGOs _____
- d. Others _____

(2) Are you satisfied with the services provided by the above mentioned ?

a. Yes ____ b. No ____ If No, reason ?

(3) What type of agricultural support services do you need for your farming operation of crop production and animal husbandry ?

a. Crop production technology _____

b. Animal husbandry technology _____

c. Information on new seeds /seedlings _____

d. Training on farming technique _____

e. Supply of new seeds/seedlings _____

f. Others, please specify _____

20. Information About Production Credit and Other Similar Obligations

(1) Are you a self-financed farmer ?

(2) What are your sources of farm credit ?

a. Land Bank ____ b. Rural Bank ____ c. PNB ____

d. Cooperative ____ e. NGOs specify _____

f. Others, please specify _____

(3) How much loan do you usually obtain for your farm on a hectare basis ?

Peso _____

(4) Do you think such production credit is adequate enough for your farming

needs ? a. Yes ____ b. No ____

(5) Do you pay loans regularly ?

a. Yes ____ b. No ____ If No, reason _____

21. Information About Rural Industry/Handy Craft and Other Activities than crop production and animal husbandry

(1) Do you or any member of family have any job other than farming ?

a. Yes If Yes, what job _____

b. No _____

(2) Among the lists below which type of activity are you willing to engaged in indicating if you have the necessary corresponding skill ?

<u>Kind of Production</u>	<u>Willingness</u>	<u>Possession of Skill</u>
a. Mushroom production	<u>Y,N</u>	<u>Y,N</u>
b. Charcoal production	<u>Y,N</u>	<u>Y,N</u>
c. Firewood production	<u>Y,N</u>	<u>Y,N</u>
d. Bamboo timber production	<u>Y,N</u>	<u>Y,N</u>
e. Bamboo shoot production	<u>Y,N</u>	<u>Y,N</u>
f. Coconut oil extraction	<u>Y,N</u>	<u>Y,N</u>
g. Coconut charcoal making	<u>Y,N</u>	<u>Y,N</u>
h. Coconut lumber processing	<u>Y,N</u>	<u>Y,N</u>
i. Fish culture	<u>Y,N</u>	<u>Y,N</u>
j. Handy craft making	<u>Y,N</u>	<u>Y,N</u>
k. Sewing/embroidering	<u>Y,N</u>	<u>Y,N</u>
l. Others, specify _____		<u>Y,N</u>

22. Information About Peoples' Organization

(1) Are you a member of following peoples' organization ?

a. Cooperatives Y,N If Yes specify _____

b. Irrigators' Association Y,N

c. Civic organization Y,N If Yes specify _____

d. Others specify _____

(2) When you are member of farmers' organization, do you get any kind of of activities/services as the members of the farmers' organization ?

a. Group marketing of farm produces Y,N

b. Group marketing of farm inputs Y,N

c. Availing of farm credit Y,N

d. Availing of farming technology Y,N

e. Availing of new seeds/seedlings Y,N

f. Intermediation of land rent and lease Y,N

g. Group operation and maintenance of irrigation system Y,N

h. Collective use of farm machinery Y,N

i. Other activities/services, please specify the reason _____