

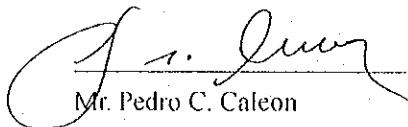
## 資 料

1. 実施細則 (I/A)
2. 協議議事録 (M/M)
3. Executive Order No.263
4. DENR Administrative Order No.96-29
5. DENR Memorandum Circular No.97-12
6. 収集資料リスト

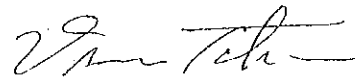
IMPLEMENTING ARRANGEMENT  
ON  
THE TECHNICAL COOPERATION  
FOR  
THE MASTER PLAN STUDY  
FOR  
WATERSHED MANAGEMENT IN UPPER MAGAT AND CAGAYAN RIVER BASIN  
IN  
THE REPUBLIC OF THE PHILIPPINES

agreed upon between  
Department of Environment and Natural Resources  
and  
Japan International Cooperation Agency

Manila, December 13, 2000



Mr. Pedro C. Caleon  
OIC, Undersecretary for International  
Commitment and Local Government Affairs,  
Department of Environment and  
Natural Resources,  
Republic of the Philippines



Mr. Osamu Takasawa  
Leader,  
The Preparatory Study Team,  
Japan International Cooperation Agency,  
Japan

## 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") decided to conduct the Master Plan Study for Watershed Management in Upper Magat and Cagayan River Basin (hereinafter referred to as "the Study"), and exchanged the Notes Verbales 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 the relevant laws and regulations enforced in Japan.

On the part of GOP, Department of Environment and Natural Resources (hereinafter referred to as "DENR") 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 DENR under above mentioned Notes Verbales exchanged between two governments.

## II. OBJECTIVES OF THE STUDY

The objectives of the Study are as follows:

1. To formulate a master plan for watershed rehabilitation and management which shows, among others, priority areas for reforestation, based on the results of the natural and socio-economic conditions survey, and the findings of the pilot study conducted in model sites,
2. To transfer relevant technology to the Philippine counterpart personnel through on-the-job training in the course of the Study.

## III. THE STUDY AREA

The Study area will cover the watershed of the Upper Magat and Cagayan River Basin which encompasses Ifugao province in Cordillera Autonomous Region (CAR) and Quirino, Nueva Vizcaya, and Isabela provinces in Region 2, with a total area of approximately 970,000 hectares as shown in Annex I.


## IV. SCOPE OF THE STUDY

In order to achieve the said objectives, the Study shall consist of two phases and the following items:

1. Phase I (Master Plan Study)

- 1-1 To collect and review the existing data and information relevant to the Study and conduct the field survey and interviews on the following items:
- (1) Natural conditions
  - (2) Socio-economic conditions
  - (3) Forestry conditions
  - (4) Agricultural conditions
  - (5) Existing activities of People's Organization & NGOs
  - (6) Existing development and conservation programs
- 1-2 To analyze the collected data and information, and identify major constraints and potentials for the rehabilitation of the watershed.
- 1-3 To analyze satellite data and prepare a land-use & vegetation map with a scale of 1 to 50,000.
- 1-4 To hold a workshop for People's Organization which aims to;
- (1) Clarify planning skill through preparation of project proposal
  - (2) Identify potentials and abilities of People's Organization to implement reforestation projects
- 1-5 To formulate the master plan for watershed management including following components;
- (1) Priority areas of reforestation through participatory approach
  - (2) Project implementing organization and methods
  - (3) Reforestation technology and nursery planning
  - (4) Incentive programs
  - (5) Reforestation activities monitoring system
  - (6) Initial Environmental Examination (IEE)
  - (7) Cost estimation
  - (8) Institutional development and capacity building

## 2. Phase 2 (Pilot Study)

- 2-1 To select model sites taking into account the capacity of People's Organization, natural conditions, accessibility, etc.
- 2-2 To conduct the pilot study for watershed management in the model sites.
- 2-3 To evaluate and assess the pilot study and feed back the results to further refine the master plan.
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## V. STUDY SCHEDULE

The Study will be carried out in accordance with the Tentative Study Schedule attached as Annex 2.

## VI. REPORT

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

1. Inception Report  
Twenty (20) copies at the beginning of the first field work.
2. Progress Report  
Twenty (20) copies at the end of the first field work.
3. Interim Report  
Twenty (20) copies at the beginning of the second field work.
4. Field Report (1)  
Twenty (20) copies at the end of the second field work.
5. Pilot Study Progress Report  
Twenty (20) copies at the beginning of the third field work.
6. Field Report (2)  
Twenty (20) copies at the end of the third field work.
7. Draft Final Report  
Thirty (30) copies at the beginning of the fourth field 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  
Forty (40) copies within two (2) months after receipt of the comments from GOP on the Draft Final Report.

In addition to the above reports, the Land-Use and Vegetation Maps (scale: 1/50,000) in the digital format are to be submitted to GOP with relevant reports.

## VII. UNDERTAKING OF THE GOVERNMENT OF THE PHILIPPINES


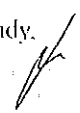
In accordance with the Notes Verbales exchanged between GOJ and GOP, GOP shall accord privileges, immunities and other assistance to the Japanese Study Team and, through the authorities concerned, take necessary measures to facilitate the smooth conduct of the Study.

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. DENR shall, at its own expense, provide the Japanese Study Team with the following, if necessary, in cooperation with other organizations concerned:
  - (1) Available data and information related to the Study
  - (2) Counterpart personnel
  - (3) Suitable office spaces with necessary equipment in Manila and the Study Area
  - (4) Credentials or identification cards
  
3. DENR shall make necessary arrangements with other governmental and non- governmental organizations concerned for the following:
  - (1) To secure the safety of the Japanese Study Team;
  - (2) To permit the members of the Japanese Study Team to enter, leave and sojourn in the Philippines for the duration of their assignment therein;
  - (3) 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;
  - (4) 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;
  - (5) 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;
  - (6) To secure permission for entry into private properties or restricted areas for the conduct of the Study;
  - (7) To secure permission to take all data and documents (including photographs) and maps related to the Study out of the Philippines to Japan by the Study Team;
  - (8) To provide medical services as needed and its expense will be chargeable on the members of the Japanese Study Team.

#### VII. UNDERTAKING OF JICA

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



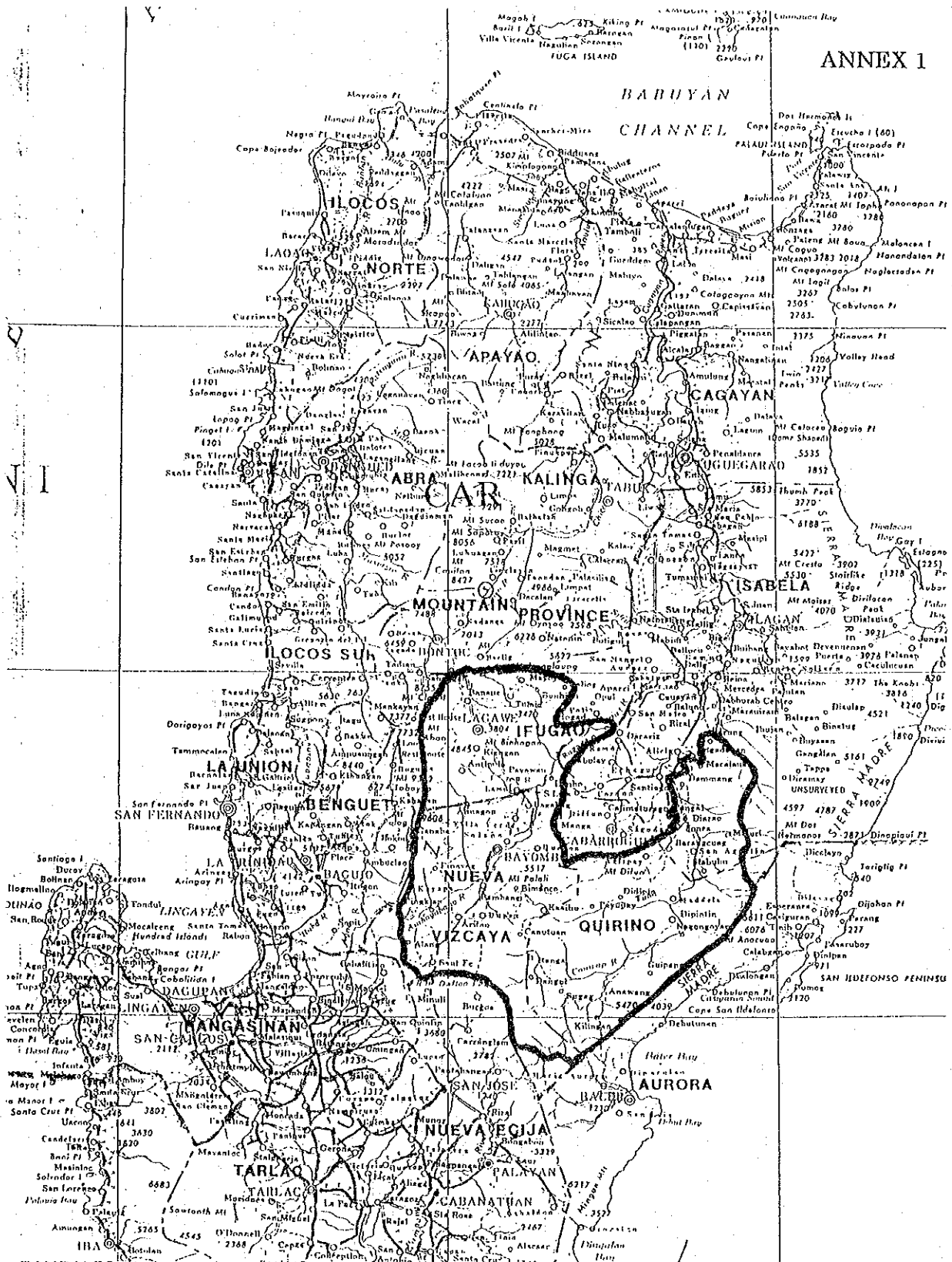
1. To dispatch, at its own expense, the Japanese Study Teams to the Philippines;
2. To pursue technology transfer to the Philippine counterpart personnel in the course of the Study;
3. To provide the necessary equipment and necessary machinery for the implementation of the Study, which will remain the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

#### VIII. CONSULTATION

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



ANNEX 1





ANNEX 2

TENTATIVE STUDY SCHEDULE

Month	2001												2002												2003				
	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5		
Items	Works in the Philippines												Works in Japan																
Works in the Philippines	[Dotted pattern]												[Dotted pattern]												[Dotted pattern]				
Works in Japan	[Hatched pattern]												[Hatched pattern]												[Hatched pattern]				
Reports	Ic/R ▲												PR/R ▲												H/R ▲				
													Fd/R(1) ▲												PS-PR/R ▲				
Phase	Phase 1												Phase 2																

Month	2003						2004		
	6	7	8	9	10	11	12	1	2
Items	Works in the Philippines						Works in Japan		
Works in the Philippines	[Dotted pattern]						[Dotted pattern]		
Works in Japan	[Hatched pattern]						[Hatched pattern]		
Reports	Fd/R(2) ▲						Df/R ▲		
							F/R ▲		
Phase	Phase 2								

(Remarks)

- Ic/R : Inception Report
- PR/R : Progress Report
- I/R : Interim Report
- Fd/R : Field Report
- PS-PR/R : Pilot Study Progress Report
- Df/R : Draft Final Report
- F/R : Final Report
- ◎ : Comments on Df/R

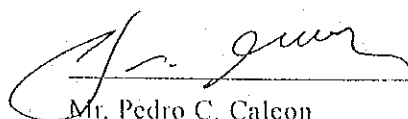
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MINUTES OF MEETINGS  
ON  
IMPLEMENTING ARRANGEMENT  
ON  
THE TECHNICAL COOPERATION  
FOR  
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FOR  
WATERSHED MANAGEMENT IN UPPER MAGAT AND CAGAYAN RIVER BASIN  
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Mr. Pedro C. Calcon  
OIC, Undersecretary for International  
Commitment and Local Government Affairs,  
Department of Environment and  
Natural Resources,  
Republic of the Philippines



Mr. Osamu Takasawa  
Leader,  
The Preparatory Study Team,  
Japan International Cooperation Agency,  
Japan

## **I. INTRODUCTION**

In response to the request of the Government of the Republic of the Philippines, the Preparatory Study Team headed by Mr. TAKASAWA (hereinafter referred to as "the Team") was sent to the Philippines by the Government of Japan through the Japan International Cooperation Agency (hereinafter referred to as "JICA"), from December 4 to December 16, 2000 for the purpose of discussing and confirming the Implementing Arrangement for the Master Plan Study for Watershed Management in Upper Magat and Cagayan River Basin (hereinafter referred to as "the Study").

The Team held a series of discussions with the relevant authorities of GOP represented by Assistant Secretary Pedro C. Caleon, Officer in Charge, International Commitment and Local Government Affairs, Department of Environment and Natural Resources (hereinafter referred to as "the Philippine side").

As a result of the discussions, the Philippine side and the Team agreed on the Implementing Arrangement for the Study.

The following are the main issues discussed by both sides in relation to the Implementing Arrangement for the Study. The list of participants in the series of meetings is shown in Attachment I.

## **II. RESULTS OF DISCUSSIONS**

### **1. Title of the Study**



Both sides agreed that the title of the Study should be changed from "The Master Plan Study for Integrated Watershed Management in Upper Magat and Cagayan River Basin" to "The Master Plan Study for Watershed Management in Upper Magat and Cagayan River Basin" because the master plan should focus, among others, on reforestation as a watershed management strategy.

### **2. Priority areas**

Regarding the item IV. I. 1-5 of Implementing Arrangement, both sides agreed that "the priority areas" are the areas which would be selected based on the results of the Phase I study, where reforestation is urgently required for watershed rehabilitation particularly through participatory approach.

### **3. Selection of the Pilot Study sites**

Both sides agreed that the following criteria should be basically adopted in selecting the Pilot Study sites. The details of these criteria shall be discussed in the course of the Phase I Study.



- (1) The sites shall be selected within the priority areas identified in the Phase I Study.
- (2) The People's Organization in the site has willingness to manage watershed through reforestation.

#### 4. Steering Committee and Technical Working Group

For the smooth and efficient implementation of the Study, both sides agreed that it is necessary to establish the Steering Committee both at the national level and at the regional level. The committee shall be composed of the representatives from following institutions:

- (1) National level
  - Forest Management Bureau (Chairman),
  - Foreign Assisted and Special Project Office,
  - JICA Philippine Office,
- (2) Regional level
  - DENR Region 2 (Chairman),
  - DENR Cordillera Autonomous Region (CAR),
  - PENRO Nueva Vizcaya,
  - PENRO Quirino,
  - PENRO Ifugao
  - PENRO Isabela

Both sides agreed that a Technical Working Group should be established at the regional level and work in close cooperation with the Study Team to be dispatched from Japan. The Technical Working Group members are:

- Assistant Regional Executive Director for Operations DENR Region 2
- PENRO Ifugao
- Forester & Engineer of DENR Region 2
- Forester & Engineer of DENR CAR

And both sides agreed that the framework as shown in Attachment 2 should manage the Study.

#### 5. Counterpart personnel

Both sides agreed that the Technical Working Group members should be assigned as counterpart personnel and cover the following fields:

- Law enforcement / Land tenure
- Reforestation / Watershed management
- Socio-economy
- Environment
- Planning
- Land use / GIS

And both sides agreed that Assistant Regional Executive Director for Operations DENR Region 2 should take responsibility for assigning additional number of counterpart personnel, if necessary.

#### **6. Necessary equipment and facilities for the Study**

Both sides discussed the necessary equipment for the implementation of the Study, and the Philippine side committed to provide the Study Team with desks, chairs, use of telephone lines, and suitable office space both within the DENR compound in Quezon City and within the PENRO-Nueva Vizcaya provincial complex in Bayombong.

And the Philippine side requested that personal computer, photocopier and fax machine for the Study be provided by JICA. The Team promised to convey the request to JICA headquarters.

The Philippine side expressed difficulties in allocating vehicle(s) on a full-time basis for the Study in the field despite their willingness to make every effort. The Team promised to convey the situation to JICA headquarters.

#### **7. GIS**

The Philippine side expressed the need of GIS for the Study and requested it to be installed in the DENR Region 2 Office in order to improve watershed management system. The Team pointed out that the existing mapping and monitoring system within the entire DENR would be reviewed to determine the necessity of the request. The Team promised to convey the request to JICA headquarters.

#### **8. Training of counterpart personnel**

The Philippine side requested the counterpart training in Japan for an effective technology transfer. The Team explained that the technology transfer should be conducted by on-the-job training basically, and promised to convey the request to JICA headquarters.


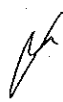
The Philippine side proposed to hold workshops by their own effort for capacity building after the submission of the Progress Report. The Team highly appreciated their positive attitude towards effective implementation of the Study and recommended that the Philippine side would seek advice from the JICA Philippine Office and the JICA expert in DENR.

#### **9. Technology Transfer Seminar**

Both sides agreed that the Study should include a technology transfer seminar at the time of presentation of the Draft Final Report to disseminate the results of the Study. The seminar is to be jointly organized by both sides.

#### **10. Final Report**

The Philippine side agreed that the Final Report should be accessible to the public.

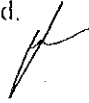


### 11. Digital data

Both sides agreed that a copy of the digital data of land-use & vegetation map should be provided to NAMRIA, upon request, for a systematic data accumulation within DENR.

### 12. Security Measures

Both sides confirmed that they would reconsider the Study area, if the Japanese Study Team find the Study area unsecured.



## LIST OF PARTICIPANTS

Philippine sideDepartment of Environment and Natural Resources (DENR)

ASEC. Pedro C. CALEON	Officer-In-Charge, International Commitment and Local Government Affairs
Mr. Philip B. OBIETA	Director, IPICS, Foreign Assisted and Special Project Office (FASPO)
Mr. Eddie B. ABUGAN	FASPO
Ms. Maridel F. VILLALON	FASPO
Ms. Lourdes C. WAGAN	Chief, Forest Nursery and Plantation Section, Forest Management Bureau (FMB)
Mr. Luis P. GONZAGA	Chief, Planning Technical Unit, WRDP-WMIC, FMB
Mr. Gerardo T. CABREROS	Chief, Land Use Division, FMB
Mr. Arleigh J. ADORABLE	Assistant Director, FMB

DENR-Region II

Mr. Alfredo S. PASCUAL	Regional Executive Director
Mr. Leonardo R. SIBBALUCA	Assistant Regional Executive Director for Operations
Mr. Dominador P. URMATAN	Chief, Community-Based Forest Management and Development Division (CBFMDD)
Mr. Edmundo S. MALUPENG	FSP Focal Person for Region II

PENRO-Quirino

Mr. Nicasio V. PASCUA	OIC, PENRO
Mr. Constante L. ESPIRITU	Chief, Operation Services

PENRO-Iligao

Mr. Edgar Arnie D. PAMBID	OIC, PENRO
Mrs. Marilyn V. PAMBID	OIC, Forester III
Mr. Johnny G. BUMARQHAT	CBFM Coordinator

PENRO-Nueva Vizcaya

Mr. Regidor M. DE LEON	OIC, PENRO
Mr. Rodolfo AGBAYANI	Governor of Nueva Vizcaya
Mr. Aquino Y. CARAMAT, Jr.	SMO, Dumayop Watershed Subproject

Philippine-German Community Forestry Project-Quirino (CFPO)

Mr. Gordon IGNACIO	Project Manager
Mr. Pedro L. BACANI	Governor of Quirino
Mr. Andres BLANDO	Provincial Consultant on Natural Resources
Mr. Paul GAFFUD	Deputy Project Manager, DEBT for Nature SWAP
Mr. Hanz WOELL	Team Leader, GTZ

People's Organization

Mrs. Consuelo A. PEREZ	Chairman, Samahang Kabuhayan ng Balete, NV
Mr. Joseph SANTIAGO	Chairman, Dumayop-Magat Agro-forest Developers Association

Japanese Side

Preparatory Study Team

Mr. Osamu TAKASAWA	Leader
Ms. Makiko UEMOTO	Member
Mr. Hiroyuki HATORI	Member
Mr. Norio ISHIJIMA	Member
Ms. Sayako TOKUDA	Member

Embassy of Japan

Mr. Eiji UENO	First Secretary
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JICA Philippine Office

Mr. Motofumi KOHARA	Deputy Resident Representative
Ms. Noriko BAMBA	Assistant Resident Representative
Mr. Santos N. GODORNES, Jr.	Project Liaison Officer

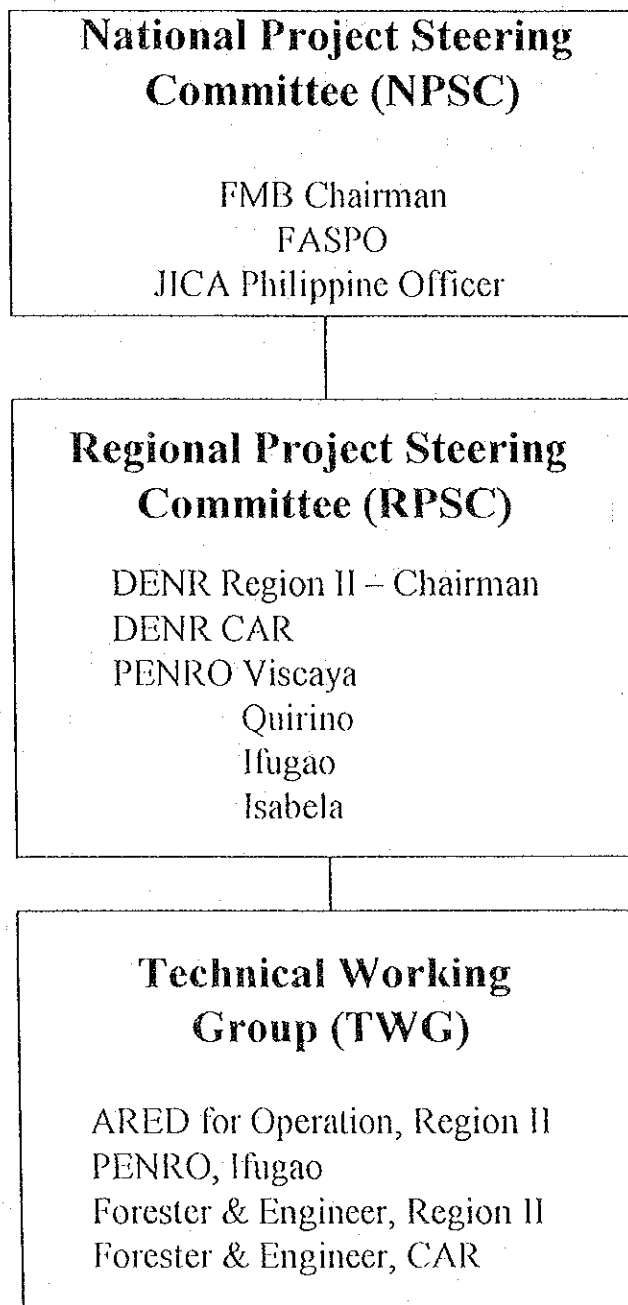
JICA Expert

Mr. Shoshi TANAKA	JICA Expert, DENR, FASPO
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**MASTERPLAN STUDY FOR  
WATERSHED MANAGEMENT IN UPPER MAGAT  
AND CAGAYAN RIVER BASIN**



MALACANANG  
MANILA

BY THE PRESIDENT OF THE PHILIPPINES

EXECUTIVE ORDER NO. 263

ADOPTING COMMUNITY-BASED FOREST MANAGEMENT AS THE NATIONAL STRATEGY TO ENSURE THE SUSTAINABLE DEVELOPMENT OF THE COUNTRY'S FORESTLANDS RESOURCES AND PROVIDING MECHANISMS FOR ITS IMPLEMENTATION

WHEREAS, Article II, Section 16 of the 1987 Constitution provides for the protection and advancement of the right of the Filipino people, both men and women, to a healthful and balanced ecology;

WHEREAS, Article II, Section 10 provides for the promotion of social justice to all citizens in all phases of national development;

WHEREAS, Article XIV Section 17 mandates the State to recognize and respect the rights of the indigenous peoples to their ancestral domains and consider their customs, traditions and beliefs in the formulation of laws and policies.

WHEREAS, Executive Order No. 192, Series of 1987, mandates the Department of Environment and Natural Resources (DENR) as the primary government agency responsible for the sustainable management and development of the country's natural resources;

WHEREAS, the Philippines 2000 and the government's Social Reform Agenda support people empowerment and the full, meaningful, and indispensable participation of communities as immediate stakeholders of the forestlands resources in the protection and management of the forest ecosystem;

WHEREAS, the 25-year Master Plan for Forestry Development also recognizes the indispensable role of local communities in forest protection, rehabilitation, development and management, and targets the protection, rehabilitation, management, and utilization of at least four (4) million hectares forestlands, through the community-based forest management strategy;

WHEREAS, entrusting the responsibility for forest rehabilitation, protection and conservation to the community of stakeholders and affording them equitable access to the forest and coastal resources are viable forestland management strategies borne by the experience of the DENR and various supporting agencies;

NOW, THEREFORE, I, FIDEL V. RAMOS, President of the Philippines, by virtue of the powers vested in me by the Constitution, do hereby order that:

*Executive Order No. 263*

SECTION 1. Community-based forest management (herein referred to as CBFM) shall be the national strategy to achieve sustainable forestry and social justice.

SECTION 2. The DENR, through its Community and Provincial Environment and Natural Resources Offices, in coordination with the local government units and the Department of Interior and Local Government (DILG) shall take into account the needs and aspirations of local communities whose livelihood depends on the forestlands.

SECTION 3. Participating organized communities may be granted access to the forestland resources under long term tenurial agreements, provided they employ environment-friendly, ecologically-sustainable, and labor-intensive harvesting methods. Such harvesting methods shall be mentioned under a site-specific management plan of each recipient community and duly approved by the DENR.

SECTION 4. The indigenous peoples may participate in the implementation of CBFM activities in recognition of their rights to their ancestral domains and land rights and claims.

SECTION 5. A CBFM Steering Committee shall be created immediately and headed by the DENR with members from the Departments of Agriculture, Trade and Industry, Agrarian Reform, Finance, Science and Technology, Labor and Employment, Interior and Local Government, Budget and Management, National Defense and Justice; National Economic Development Authority; Philippine Commission on Countrywide Development under the Office of the President; Committee on Flagship Programs and Projects of the Office of the President; Presidential Management Staff under the Office of the President; Cooperative Development Authority, and Offices of Northern and Southern Cultural Communities. The Committee may invite representatives from the Philippine Chamber of Commerce, Philippine Wood Products Association, NGO coalition groups, and other public and private organizations to become members of the Steering Committee. The Committee shall formulate and develop policy guidelines that will create incentives and conditions necessary to effectively carry out community-based forest management strategy. Accordingly, members of the CBFM Steering committee should, at least, be represented by concerned Assistant Secretaries or heads of bureaus and agencies.

SECTION 6. The DENR shall work with local governments, people's organizations (POs), non-government organizations (NGOs), religious groups, business and industry, and other concerned organizations to ensure that communities are empowered to initiate and achieve the objectives of this Order.

SECTION 7. In its budget preparation, the DENR shall allot adequate funds to effectively accomplish CBFM targets and shall seek supplementary funding from local and forest supporting agencies and organizations. DENR shall also ensure the inclusion of budgetary allocation for CBFM in the annual General Appropriations Act, pending the passage of the revised Forestry Code.

SECTION 8. The DENR shall establish a Community-Based Forest Management Special Account (CBFMSA) to support the implementation of the strategy and provide financial and professional incentive system for deserving communities and government personnel.

SECTION 9. The DENR may source local and international grants and donations for the establishment of the CBFM Special Account. Other sources of fund may later be determined by the CBFM Steering Committee subject to existing government regulations.

SECTION 10. The DENR shall support and set up jointly with relevant colleges and universities, private and public organizations, arrangements for a community forestry training program for members of participating units such as people's organizations, non-government organizations, local government units, and other government personnel.

SECTION 11. Within six months after the signing of this Order, the DENR, in consultation with government financial institutions, such as the Development Bank of the Philippines (DBP), the Land Bank of the Philippines (LBP), GSIS and the SSS, shall effect the creation of favorable financing mechanisms for access by communities and organizations in the pursuit of the CBFM strategy and its sub-strategies such as community training and empowerment, enterprise development, agroforestry development, tree plantations, and other non-forest-based alternative livelihood systems.

SECTION 12. The DENR Secretary shall issue new rules, regulations, procedures and guidelines necessary to implement this Order and repeal or modify existing ones consistent with the policies set forth by the CBFM Steering Committee.

SECTION 13. The DENR Secretary shall, within six months from the signing of this Order, submit to the Office of the President, a National Comprehensive Community Forestry Action Plan, which embodies the Department's short-, medium-and long-term plans. The action plan shall be discussed and approved by the CBFM Steering Committee prior to its submission to the President.

SECTION 14. All previous executive and administrative issuance which are inconsistent herewith are repealed or amended accordingly.

Done in the City of Manila, this 19<sup>th</sup> day of July, in the year of Our Lord, Nineteen Hundred and Ninety-Five.

(SGD.) FIDEL V. RAMOS

By the President:

(SGD.) RUBEN D. TORRES  
Executive Secretary

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

ADMINISTRATIVE ORDER  
NO. 96-29

SUBJECT : RULES AND REGULATIONS FOR THE IMPLEMENTATION OF EXECUTIVE ORDER 263, OTHERWISE KNOWN AS THE COMMUNITY-BASED FOREST MANAGEMENT STRATEGY (CBFMS)

Pursuant to Section 12 of Executive Order No. 263 (EO 263), entitled "Adopting Community Based Forest Management as the National Strategy to Ensure the Sustainable Development of the Country's Forest Lands Resources and Providing Mechanisms for its Implementation" issued by the President of the Republic of the Philippines on 19 July 1995, this Administrative Order is hereby promulgated, setting forth the rules and regulations governing the implementation of the Executive Order.

ARTICLE I

TITLE, BASIC POLICY, OBJECTIVES, DEFINITION OF TERMS AND SCOPE

Section 1. *Title.* This Administrative Order shall be known as the "Community-Based Forest Management Program".

Section 2. *Basic Policy.* It is the policy of the State to: a) protect and advance the right of the Filipino people to a healthful environment; b) improve their socio-economic conditions through the promotion of social justice, equitable access to and sustainable development of forest land resources; and c) respect the rights of indigenous peoples to their ancestral domains by taking into account their customs, traditions and beliefs in the formulation of laws and policies. Active and transparent community participation and tenurial security shall be among the key strategies for achieving these goals.

Accordingly, the State acknowledges and supports the capacities and efforts of local communities and indigenous peoples to protect, rehabilitate, develop and manage forest lands and coastal resources. The State shall provide legal and technical support to ensure equitable access to and sustainable use of natural resources. Pursuant to these policies, the State hereby establishes the Community-Based Forest Management Program (CBFMP) to implement EO 263.

Section 3. *Concept.* Efficient and sustained management of forest lands and coastal areas can result from responsible resource utilization by organized and empowered local communities. It shall be the responsibility of the DENR, the Local Government Units (LGUs), and other government agencies to collaborate with Non-Government Organizations (NGOs)

and other private entities in developing the enabling environment to support and strengthen local communities in managing forest lands and coastal resources on a sustainable basis. The DENR shall provide security of tenure and technical assistance to these local communities.

Local communities shall be assisted by DENR, LGUs, NGOs and other government agencies (OGAs) or entities in the preparation of a Community Resource Management Framework (CRMF). The CRMF shall express the communities' aspirations, local and indigenous knowledge, and shall serve as a guide in the access, development, use and protection of resources in areas currently and eventually utilized and managed by the communities. The CRMF shall be consistent with the overall strategy for the conservation of areas encompassing watersheds and herein set forth policies.

Section 4. *Definition of Terms.* The following terms are to be understood and interpreted as follows:

**ANCESTRAL DOMAINS** - All lands and natural resources, occupied and possessed by indigenous cultural communities, by themselves or through their ancestors, communally or individually, in accordance with their customs and traditions since time immemorial, continuously to the present except when interrupted by war, *force majeure*, or displacement by force, deceit, or stealth, and including all adjacent areas generally belonging to them that are necessary to ensure their economic, social and cultural welfare.

**ANCESTRAL LANDS** - Lands occupied, possessed and utilized by individuals, families or clans who are members of an ICC/IP since time immemorial, by themselves or through their predecessors in interest, continuously to the present except when interrupted by war, *force majeure* or displacement by force, deceit or stealth; including claims to lands that have been devolved to individuals such as residential lots, rice terraces, paddies or tree lots, indigenous corporate claims belonging to families or clans such as private forests and swidden farms and communal claims belonging to a community within a defined territory.

**AWP**- Annual Work Plans

**BUFFER ZONES** - Identified areas outside the boundaries of and immediately adjacent to designated protected areas pursuant to Section 8 of the NIPAS Law, that need special development control in order to avoid or minimize harm to the protected area.

**CENRO** - Community Environment and Natural Resources Office/Officer of DENR

**CERTIFICATE OF ANCESTRAL DOMAIN CLAIM** - A certificate issued by DENR to an indigenous cultural community/indigenous people declaring, identifying and recognizing their claim to a particular traditional territory which they have possessed and occupied, communally or individually, in accordance with their customs and traditions since time immemorial.

**CERTIFICATE OF ANCESTRAL LAND CLAIM** - A certificate issued by DENR to an indigenous Filipino individual, family, or clan, declaring, identifying and recognizing their claim to a particular area they have traditionally possessed, occupied and used by themselves or through their predecessors in interest since time immemorial.

*DENR Administrative Order No. 96-29*

**COASTAL ENVIRONMENT PROGRAM** - A program established in the DENR to implement its projects on conservation and management of the coastal environment. The CEP encompasses all concerns over the habitat and ecological support systems of coastal communities and fisheries specifically pertaining to their productivity, biodiversity, integrity, sustainability, and equitability of access and use. This is principally governed by DAO 19, S1993.

**COMMUNITY** - A group of people who may or may not share common interests, needs, visions, goals and beliefs, occupying a particular territory which extends from the ecosystem geographical, political/administrative and cultural boundaries and any resources that go with it.

**COMMUNITY BASED FOREST MANAGEMENT STRATEGY** - Organized efforts by the DENR to work with communities in and near public forest lands with the intent to protect, rehabilitate, manage, conserve, and utilize the resource.

**COMMUNITY BASED FOREST MANAGEMENT STEERING COMMITTEE** - A multi-sectoral Committee responsible for the formulation and development of policy guidelines that will create incentives and conditions necessary to effectively carry out CBFMP. It shall be composed of the Secretary of the DENR as head; the respective Secretaries, or Undersecretaries or Assistant Secretaries or bureau/agency heads of the Departments of Agriculture, Trade and Industry, Agrarian Reform, Local Government, Budget and Management, National Defense, Justice, National Economic and Development Authority, Philippine Commission on Countrywide Development, Committee on Flagship Programs and Projects of the Office of the President's Presidential Management Staff, Cooperative Development Authority and Office for the Northern and Southern Cultural Communities. Representatives from POs participating in the CBFMP, NGOs, Philippine Chamber of Commerce, Philippine Wood Products Association and other public and private organizations may be invited to become members of the Steering Committee. This committee will replace the multi-agency/sectoral committee created under EO 196 to oversee the ENR-SECAL Program and all such other Steering Committees created for various other community based forestry programs.

**COMMUNITY-BASED FOREST MANAGEMENT SPECIAL ACCOUNT** - A special fund to be established and used to support the implementation of CBFMP and to provide a professional incentive system for deserving communities and government personnel.

**COMMUNITY BASED FOREST MANAGEMENT AGREEMENT** - A production sharing agreement entered into between a community and the government, to develop, utilize, manage and conserve, a specific portion of the forest land, consistent with the principles of sustainable development and pursuant to a Community Resource Management Framework.

**COMMUNITY FORESTRY PROGRAM** - A forest management program of the DENR which grants rights to organized communities to manage, develop and utilize forest resources on a sustainable basis. The CFP is principally governed by DAO 123, S 1989 and DAO 22, S 1993.

**COMMUNITY SPECIAL TASK FORCE FOR ANCESTRAL LANDS** - The Special Task Force based in specific Community Environment and Natural Resources Offices (CENRO) which is responsible for the identification, delineation and recognition of ancestral domain and land claims.

COMMUNITY RESOURCE MANAGEMENT FRAMEWORK - The document defining the terms and procedures for access, use, and protection of natural resources within the CBFMA area, which shall in all cases be consistent with the overall management strategy of the entire watershed area where the CBFMA area is located, and shall be formulated by the community with the assistance of its PO and the DENR, LGU and/or private entities.

DAO - Department Administrative Order

EMPAS - Environmental Management and Protected Areas Sector

FMB - Forest Management Bureau

FOREST LAND MANAGEMENT PROGRAM - A program launched by DENR through which Forest Land Management Agreements are issued, which in turn replaces the former short term contract reforestation systems as the principal mode for accomplishing the reforestation objectives in collaboration with forest occupants and residents of upland communities. The program grants participants the sole and exclusive rights to occupy, develop and manage specified areas of forest lands, subject to repayable financial assistance from DENR, and to harvest, sell and utilize products grown on the land. The FLMP is principally governed by DAO 23, S1993.

FORESTS - Either natural vegetation or plantations of forest crops such as trees, or both, occupying a definable, uninterrupted or contiguous area not less than one hectare in size with the tree crowns covering *at least* ten (10) percent of the area, exclusive of the associated seedlings, saplings, palms, bamboo and other undercover vegetation. A natural forest is a stand constituted by natural succession without human intervention which includes such stand types as dipterocarp, pine, mossy, beach and/or mangrove, and for purposes of these rules are classified according to: 1) primary use and management; and 2) growth formation. As to primary use and management, a forest shall be either a: 1) protection forest; or 2) production forest. As to growth formation, a natural forest is classified according to either 1) primary or old growth forest or 2) a residual or second growth forest which refers to natural forest which has been previously subjected to timber harvesting or extraction.

FOREST LANDS - Lands of the public domain which have been classified as such under the land classification program of the DENR and all unclassified lands of the public domain.

FOREST PRODUCT - Any forest resource that is harvested or utilized, except minerals.

FOREST RESOURCES - All natural resources, whether biomass such as plants and animals or non-biomass such as soil and water, as well as the intangible services and values present in forest lands or in other lands devoted for forest purposes.

GENERAL MANAGEMENT PLANNING STRATEGY - A plan adopted by a duly established Protected Areas Management Board (PAMB), designed to maintain the integrity of protected areas specifically as to ecological stability and biological diversity, through the full participation and involvement of communities.







Project (IRMP), Forestry Sector Project (FSP), Coastal Environment Program (CEP); and Recognition of Ancestral Domains/Claims.

Indigenous Cultural Communities (ICCs)/ Indigenous Peoples (IPs) whose claims to ancestral domains/lands have been recognized through Certificates of Ancestral Domain Claims (CADCs) or Certificates of Ancestral Land Claims (CALCs), or whose domains are recognized by themselves and neighboring communities, may, at their option, participate in the CBFMP through the preparation and implementation of Ancestral Domain Management Plans (ADMPs). An ADMP shall be considered the equivalent of a CRMF. Unless otherwise provided by subsequent issuances, a CBFMA shall then be issued over portions of the CADC or CALC which are within classified forest lands.

## ARTICLE II

### KEY PROGRAM PARTICIPANTS

Section 1. *Qualifications of Participants.* The principal participants in CBFMP shall be the local communities as represented by their organizations, herein referred to as People's Organizations (POs).

In order to participate in the CBFMP, a PO must have the following qualifications:

1. Members shall be Filipino citizens
2. Members may either be:
  - a. Actually tilling portions of the area to be awarded;
  - b. Traditionally utilizing the resource for all or substantial portion of their livelihood; or
  - c. Actually residing within or adjacent to the areas to be awarded.

In the case of married members, the names of both spouses should be listed.

Section 2. *Incentives to the POs.* - POs shall be entitled to the following incentives and privileges:

- i. To occupy, possess, utilize and develop the forest lands and its resources within a designated CBFMA area and claim ownership of Introduced improvements. ICCs/IPs shall be deemed not to have waived their rights to ancestral lands and domains, and the right to lay claim on adjacent areas which may, after more careful and thorough investigation, be proved to be, in fact, part of their ancestral domain;

- ii. To allocate to members and enforce rights to use and sustainably manage forest lands resources within the CBFMA area.
- iii. To be exempt from paying rent for use of the CBFMA areas;
- iv. To be exempt from paying forest charges on timber and non-timber products harvested from plantations in accordance with R.A. 7161;
- v. To be properly informed of and be consulted on all government projects to be implemented in the area. A PO's consent shall also be secured by the DENR prior to the granting and/or renewal of contracts, leases and permits for the extraction and utilization of natural resources within the area; *provided*, that an equitable sharing agreement shall be reached with the PO prior to any grant or renewal to an individual or legal entity that is not from or based in the affected community;
- vi. To be given preferential access by the DENR to all available assistance in the development and implementation of the CRMF, RUP and AWP;
- vii. To receive all income and proceeds from the sustainable utilization of forest resources within the CBFMA area, subject to the provisions of the NIPAS Law;
- viii. To enter into agreements or contracts with private or government entities for the development of the whole or portions of the CBFMA area; *provided*, that public bidding and transparent contracting procedures are followed; *provided further*, that development is consistent with the CRMF of the CBFMA area; and
- vii. To enter into agreements or contracts with government entities; *provided*, that existing COA regulations and pertinent guidelines are adhered to.

Section 3. *Responsibilities of POs.* - The participating POs shall have the following responsibilities in the CBFMA areas:

- i. Participate in site identification, selection and boundary delineation, and, if needed, in parcellary surveys;
- ii. Designate areas according to their sustainable use and, in accordance with their native customs, traditions and practices, allocate and enforce natural resource rights in accordance with national laws, rules and regulations;
- iii. Prepare and implement CRMFs, RUPs and AWP for the area;
- iv. Develop and implement equitable benefit-sharing arrangements among its members;
- v. Protect, rehabilitate and conserve the natural resources in the CBFMA area and assist government in the protection of adjacent forest lands;

- vi. Develop and enforce policies pertaining to the rights and responsibilities of PO members and the accountability of PO leaders;
- vii. Develop equitable mechanisms for addressing conflicts, including rules, regulations and sanctions regarding forest use and protection; *provided*, that in case of ICCs/IPs, indigenous processes and mechanisms shall be followed.
- viii. Be transparent and promote participatory management and consensus building in all activities and endeavors;
- ix. Pay forest charges, other than those on timber and non-timber products harvested from CBFMA plantations, as well as fees and other taxes required by the government;
- x. Undertake other responsibilities agreed to in the CBFMA.

### ARTICLE III

#### STAGES OF CBFMP IMPLEMENTATION

CBFMP implementation shall have four stages: the Preparatory Stage, the PO Formation and Diagnostic Stage, the Planning Stage, and the Implementation Stage.

##### Preparatory Stage

The objectives of this stage are (a) to inform and educate DENR officials, LGUs and the general public about CBFMP; (b) to establish institutional linkages between the DENR and the LGU; (c) to identify potential CBFMP areas; and (d) to select CBFMP areas.

**Section 1. *Information, Education and Communication Campaigns.*** The DENR and LGUs, in collaboration with other government agencies, non-government organizations and other sectors, shall conduct an Information Education Communication (IEC) campaign to inform, educate and get the support of all concerned sectors on CBFMP implementation. The campaign shall include the orientation and training of DENR and LGU personnel and leaders of the PO who shall be engaged in the implementation of CBFMP.

**Section 2 *Establishing Institutional Linkages.*** - The DENR shall work with local governments, other government agencies, people's organizations, non-government organizations, tribal councils, and other concerned organizations to ensure that communities are empowered to initiate and achieve the objectives of CBFMP. The DENR shall promote and support the active participation of these agencies and organizations, and shall assist them in enhancing their capacities to actively participate in and support the program.

Section 3. *Identification of CBFMP.* - Identification and selection of CBFMP areas shall be jointly undertaken by the DENR and the concerned LGU in consultation with local communities. The identification of CBFMP areas shall take into consideration the forest lands use plan to ensure that the CBFMP is consistent with the overall watershed conservation strategy and with the Municipality's Land Use and Development Plan. The general procedure in selecting CBFMP areas is as follows:

- a) Each CENRO and duly designated representatives of the concerned municipal government, shall identify potential CBFMP areas with the aid of a Forest Land Use Plan, latest available information and/or updated forest management map, and other baseline data. The CENRO and LGU representatives shall then validate the identified areas on the ground to determine their suitability in accordance with the criteria defined below.
- b) The validated areas, endorsed by the concerned Legislative Councils of LGUs, shall then be indicated in a map of appropriate scale, which map, together with pertinent data and information, shall be forwarded through channels to the Regional Executive Director (RED) for approval.
- c) The approved map and all other documents shall be furnished the Director of the FMB, for data base management and monitoring purposes.
- d) Upon approval of the CBFMP areas, the CENRO shall, within fifteen (15) days, inform in writing the concerned LGUs and together with the latter, shall conduct an information campaign to inform the public about the program. Copies of CBFMP guidelines and site map shall be posted in the municipality and barangays where the site is located.

Section 4. *Criteria for area.* The following are the criteria for site selection:

- a) *Available areas:* CBFMP may be implemented in uplands and coastal lands of the public domain except in the following:
  - i. Areas covered by existing Timber License Agreements (TLAs), Pasture Lease Agreements, Industrial Forest Management Agreements (IFMA) and other forest land contracts, leases, permits or agreements, except in the following cases:
    - (1) the lessee, permittee or agreement holder executes a waiver in favor of the CBFMA, *provided*, that when any pre-existing rights expire within three years from the issuance of a CBFMA, no waiver shall be required; or
    - (2) a permit is issued only for the collection or harvesting of minor forest products, in which case no waiver from the permittee shall be required. Upon termination of any pre-existing permit for non-

timber forest products, the permit shall not be renewed and any new permit shall be given to the CBFMA holder.

- ii. Protected areas except multiple use zones, buffer zones and other areas where utilization activities may be allowed pursuant to the provisions of R.A. 7586 (NIPAS Law) and its implementing rules and regulations;
  - iii. Forest lands which have been assigned by law under the administration and control of other government agencies, except upon written consent of the concerned government agency;
  - iv. Certified ancestral lands and domains, except where the ICCs/IPs opt to participate in CBFMP; and
  - v. Other areas occupied by ICCs that are known to be ancestral but are not yet covered by CADC or CALC, unless the ICCs/IPs opt to participate in CBFMP.
- b) *Presence of communities* residing within or adjacent to forest lands and who are largely dependent on forest lands resources for their livelihood.
  - c) *Endorsed by the Legislative Councils of concerned LGUs* for CBFMP.
  - d) *Open, denuded or marginal forest lands* requiring immediate rehabilitation and protection; and
  - e) *Adjacent to or adjoining* existing CBFM projects.

Section 5. *Processing of Conflicting Claims.*

- a) Adverse claimants or any party alleging conflicting claims over the identified CBFMP are, or portions thereof, shall file their complaints before the RED within thirty (30) days from date of first publication/or notification.
- b) The RED shall convene a team composed of the Regional Technical Director for Forestry (RTD-F) as Chairman and representatives of PENRO and CENRO, Provincial and Municipal governments, to hear and receive proof of conflicting claims. This Team may utilize culturally appropriate and locally acceptable methods of conflict management, provided these are transparent and fair. Indigenous dispute processes and other appropriate institutions such as the Provincial Special Task Forces on Ancestral Domains (PSTFAD) and Community Special Task Forces on Ancestral Lands (CSTFAL) established under DENR Special Order No. 25, S1993 as well as the PAMB in protected areas shall be invited to participate in dispute processing.
- c) The RTD-F shall prepare a report of the Team's findings and recommendations and shall submit the same to the RED within fifteen (15) days from the date the













ARTICLE V  
MANAGEMENT OF CBFMP

Section 1. *CBFM Steering Committee.* In accordance with Section 8 of EO 263, a CBFM Steering Committee shall be constituted. It shall be chaired by the DENR Secretary with members from the Departments of Agriculture, Trade and Industry, Agrarian Reform, Finance, Science and Technology, Labor and Employment, DILG, Budget and Management, National Defense, Justice, National Economic Development Authority, Philippine Commission on Nationwide Development under the Office of the President, Committee on Flagship Programs and Projects of the Office of the President, Cooperative Development Authority, and Offices for Northern and Southern Cultural Communities.

The Committee may invite representatives from the Philippine Chamber of Commerce, Philippine Wood Products Association, NGO Coalition groups, representatives of POs and other public and private organizations to become members of the Steering Committee.

The Committee shall formulate and develop policy guidelines that will create incentives and conditions necessary to effectively implement community based forest management.

The Steering Committee shall have the following roles and functions:

- (a) Provide overall guidance and policy direction to the CBFMP and, for this purpose, meet periodically to review and integrate, if necessary, all policies pertinent to the CBFMP, and resolve policy gaps and/or conflicts with other programs and projects in the Environment and Natural Resources Sector;
- (b) Review and approve the CBFMP Comprehensive Action Plan;
- (c) Secure inter-agency support and participation in CBFMP; and
- (d) Identify and source funds for CBFMP.

The Committee may create similar sub-committees at the regional and provincial levels.

Section 2. *The Forest Management Bureau (FMB)* shall be the National Coordinating Office of CBFMP. However, for purposes of complementation, the Protected Areas and Wildlife Bureau (PAWB), in close collaboration with the FMB, shall primarily coordinate the CEP and the multiple use zone areas to be covered by CBFMP.

The FMB shall have the following functions and responsibilities:

- a) Review all People-Oriented Forestry and CBFM programs, projects, and activities of DENR to identify issues and lessons learned.
- b) Draft policies, guidelines and procedures on CBFM;
- c) Prepare and monitor implementation of the national CBFM program of action.

- d) Liaise with other government and non-government organizations for support and/or participation in the program;
- e) Assist in the development and preparation of project proposals for financial support by donor agencies;
- f) Develop and maintain improved management information systems on CBFMP within the DENR.
- g) Serve as the technical secretariat of the CBFM Steering Committee; and
- h) Perform such other functions as may be directed by the Steering Committee and/or the Secretary of the DENR.

Section 3. *The RED*, assisted by the RTD-Forestry and RTD for EMPAS, shall be responsible for the effective implementation of CBFMP in the region. The RED shall also identify an appropriate division that shall act as the regional repository of all data and information on CBFMP. The RED shall submit periodic reports to the Secretary, through the Undersecretary for Field Operations, on program implementation, including monitoring and evaluation, copy furnished the FMB and the PAWB.

Section 4. *The PENRO* shall be responsible for the effective implementation of CBFMP in the province, including the submission of periodic reports and the maintenance of a data base for all CBFMP projects in the province.

Section 5. *The CENRO* shall be directly responsible for implementing the CBFMP within its jurisdiction, in coordination with concerned LGUs, other government agencies and non-government organizations/ private entities. The CENRO shall submit periodic reports of CBFMP implementation to the PENRO for evaluation.

## ARTICLE VI

### FINANCIAL AND OTHER MECHANISMS

Section 1. *Financing*. During budget preparations, the DENR, in cooperation with concerned LGUs, shall allot adequate funds to effectively accomplish CBFMP targets and shall, when necessary, seek supplementary funding from local and foreign donor agencies and organizations. The DENR shall ensure the expansion of existing People-Oriented Forestry Fund, and inclusion of budgetary allocation for CBFM in the Annual General Appropriations Act.



## ARTICLE VII

### PENALTIES AND SANCTIONS

Section 1. *Sanctions.* Compliance by the PO with the terms and conditions of the CSC/CFMA shall be monitored and evaluated by the DENR and the concerned LGU. The findings shall be discussed with the PO, including recommended solutions to address the problem, if any. In the event of non-compliance with, or continued violations of, the terms of the agreement despite the lapse of six (6) months from the date of notification about such infraction or non-compliance, the PO's permits to utilize and transport forest products and other natural resources shall be suspended for at least six (6) months to not more than one (1) year.

Should the beneficiary/PO continue to commit gross violations of the CSC/CFMA, such CSC/CFMA shall be canceled or revoked.

The DENR reserves the right to pursue other civil and criminal remedies to protect its rights.

Section 2. *Imposition of Penalties/Appeals.* Suspension of the CSC/CFMA shall be done by the respective authorities who approved the tenurial instruments upon recommendation of the concerned DENR offices and the concerned LGUs, as the case may be. Revocation or cancellation shall be done by the RED or Undersecretary for Field Operations or Secretary, as the case may be, upon recommendation of the concerned DENR offices.

Parties who are aggrieved by any decision of the concerned DENR official, may file an appeal to the next higher authority of the DENR within thirty (30) days from receipt of said decision.

## ARTICLE VIII

### TRANSITORY PROVISIONS

Section 1. *Tenure.* Henceforth, the CBFMA shall be awarded in place of the following: Community Certificate of Forest Stewardship issued to community organizations under the ISFP; Mangrove Stewardship Agreements issued to community organizations under the CEP; the Community Forest Management Agreements issued under the CFP, RRMP and IRMP; and the Forest Land Management Agreements issued under the FLMP. The CBFMA shall also be the tenurial instrument to be issued to PO's in allowable zones within protected areas. Holders of valid and existing CSC and Mangrove Stewardship Agreements and whose lands are contiguous may associate themselves and avail of a CBFMA to include areas outside their stewardship contract areas. Existing CCFS or Community Forest Stewardship Agreements or Community Forest Leases and/or CALCs awarded to the ICCs may be converted to the CADC as provided in DAO 2, S1993 or other pertinent regulations. In these areas, only a confirmation



DENR Administrative Order No. 96-29 ~~REPEALED BY DENR ADMINISTRATIVE ORDER NO. 01-02~~

survey will be required. ICCs may also apply for the inclusion of other areas within the CADCs that were excluded from the former CCFS.

Section 2. *Preparation of CRMF and RUP.* The FMB shall conduct on-the-job training for the technical personnel of the regional offices to ensure that standards consistent with the CBFMS concept are observed in the respective plans.

ARTICLE IX  
FINAL PROVISIONS

Section 1. *Effectivity.* This order shall take effect thirty (30) days after its publication in a general newspaper of national circulation.

Section 2. *Separability Clause.* If any provision of this Order is held invalid, all other provisions not affected thereby shall remain valid.

Section 3. *Repealing Clause.* Provisions of other DENR Administrative Orders, Memorandum Circulars or other official issuances not consistent herewith are hereby repealed or amended accordingly.

(SGD) VICTOR O. RAMOS  
Secretary

Republic of the Philippines  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
OFFICE OF THE PENRO/RED/USEC/SEC

\_\_\_\_\_  
(office address)

COMMUNITY-BASED FOREST MANAGEMENT AGREEMENT  
(CBFMA) No. \_\_\_\_\_

OF

\_\_\_\_\_  
(Name of CBFMA Holder)

\_\_\_\_\_  
(Location of Area)

This AGREEMENT, made and entered into by and between: the  
Philippines, hereinafter referred to as the DENR, and  
\_\_\_\_\_ with residence and postal address at  
\_\_\_\_\_ hereinafter referred to as the  
CBFMA Holder.

WITNESSETH:

WHEREAS, the DENR has the authority and jurisdiction over forest lands to be included in the CBFMA.

WHEREAS, the CBFMA Holder has resolved to enter into a Community-Based Forest Management Agreement over the aforementioned area pursuant to provisions of DAO;

WHEREAS, the concerned LGUs having joint responsibility with DENR over community-based forest management in accordance to the Local Government Code, endorses this CBFMA.

WHEREAS, implementation of the agreement shall include the following components:

- a. forest rehabilitation, including agroforestry;
- b. forest protection;



- 2.3 Prepare and implement CRMF, RUP and Annual Work Plans with assistance from DENR and LGU.
- 2.4 Formulate and implement benefit sharing schemes among its members.
- 2.5 Pay the required forest charges and other fees.

3.0 OTHER CONDITIONS

The DENR shall give first priority to the PO in obtaining privilege to extract, utilize and dispose any mineral resource and minor forest product found within the CFMA area, subject to existing laws, rules and regulations.

4.0 DURATION OF CBFMA

This Agreement shall have a term of twenty-five (25) years counted from the date this instrument is notarized and be eligible for renewal thereafter for an additional twenty-five (25) years subject to compliance by the PO with the terms of this Agreement and pertinent laws, rules and regulations.

5.0 RESOLUTION OF DISPUTES

Any disputes among the parties hereto arising from or related to the provisions of this Agreement shall be settled by arbitration, with each party represented by one (1) arbitrator and a third arbitrator named by the two (2) parties. If it is not possible to settle disputes through arbitration, the dispute shall be submitted for the decision to the appropriate court of law having jurisdiction on the matter.

6.0 TERMINATION AND AMENDMENT OF CBFMA

This CBFMA may be terminated based on the non-performance of the PO or violation of any provision herein stated by any of the parties. Further, this Agreement may be amended and supplemented with conformity of both parties.

7.0 FORCE MAJEURE

If any event of FORCE MAJEURE and other causes such as earthquakes, typhoons, storms, floods, epidemics and other similar phenomenon affecting the performance of the People's Organization, the PO shall give notice to DENR within thirty (30) days after the occurrence; including a statement describing the *force majeure* and its effect upon the PO's ability to perform under the conditions of the CBFMA. The parties shall meet regarding action to be taken within five (5) days after such notice.

8.0 PENALTY CLAUSE

In the event of default in any of the above undertaking by the PO, nothing herein shall preclude the DENR from resorting to such judicial remedies, civil or criminal, to which it may be entitled under existing laws.

DENR Administrative Order No. 96-29 ~~CONFIDENTIAL~~

NOW THEREFORE, the parties hereto signified their agreement to the foregoing provisions by affixing their signature hereunder on this day of \_\_\_\_\_ in \_\_\_\_\_ Republic of the Philippines.

FOR THE DENR:

FOR THE CBFMA HOLDER

CONCURRED BY:

(Barangay Legislative Council)

(Municipal Legislative Council)

(Provincial Legislative Council)

WITNESSES:

1 Signed October 10, 1996

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

MEMORANDUM CIRCULAR  
NO. 97-12

SUBJECT: GUIDELINES FOR THE FORMULATION OF COMMUNITY  
RESOURCE MANAGEMENT FRAMEWORK AND ANNUAL  
WORK PLAN FOR COMMUNITY-BASED FOREST  
MANAGEMENT AREAS

Pursuant to DENR Administrative Orders No. 96-29 and 96-34, and other pertinent laws, rules and regulations, the following guidelines for the formulation of Community Resource Management Framework (CRMF) and Annual Work Plan (AWP) for Community-Based Forest Management Areas are hereby promulgated for the guidance of all concerned.<sup>1</sup>

Section 1. Rationale

The Community-Based Forest Management Program (CBFMP) aims to promote socio-economic upliftment of forest-dependent communities, at the same time achieving sustainable management of forest resources. It recognizes and supports the capacities and indispensable roles of local communities (coastal, Indigenous peoples and upland) to protect, rehabilitate, develop, utilize and manage forest lands and related resources. This recognition and support is formalized through a Community-Based Forest Management Agreement (CBFMA), a long term tenorial instrument that provides and ensures access by the communities to forest lands and the resources found within, and, in the case of ancestral domains of indigenous peoples, the Certificate of Ancestral/Land Claims (CADC/CALC) that recognizes the rights of Indigenous Peoples (IPs) to their ancestral domains and lands.

The Community Resources Management Framework (CRMF) is a strategic plan of the community on how to manage and benefit from the forest resources in a sustainable basis. It describes the community's long term vision, aspirations, commitments and strategies for the protection, rehabilitation, development and utilization of the forest resources. The CRMF is a document prepared by the community with the assistance of DENR CBFM staff, and LGU staff wherever agreements on cooperative support for CBFM exists between a DENR unit and its counterpart LGU. The CRMF is affirmed by the DENR Community Environment and Natural Resources Officer; such affirmation confirms that the CRMF has been prepared in a participatory manner (involving the community, DENR, and other stakeholder parties), and that the DENR commits to support the community in implementing its CRMF.

In the case of CADC, the IP's strategic plan is the Ancestral Domain Management Plan (ADMP), which shall be prepared in lieu of the CRMF, following the guidelines embodied in DENR DAO 96-34. The relationship between CRMF and ADMP is shown in Annex 2.

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<sup>1</sup> A glossary of terms and acronyms is provided in Annex 1.



Section 3. Guiding Principles

The formulation of the CRMF and the AWP shall be guided by the following principles:

1. **Participatory approach.** The formulation and implementation of CRMF and AWP shall be PO-led and shall promote broad-based community participation and involvement. The concerns of the communities, LGUs, national agencies and other stakeholders shall be taken into consideration through democratic consultations and negotiations. These processes may involve resolution of conflicts arising from the use and management of forest resources.
2. **Multiple use of forest management.** The multiple use of forests shall be promoted. In undertaking such opportunities, the complementarity of forest functions should be considered to attain a balance between economic and environmental concerns. As a matter of principle, the CRMF should reflect the CBFM priority for the beneficial use by communities of resources that entail little or no extraction (e.g., ecotourism), followed by minimal extraction usage (e.g., of non-timber resources, water usage), with timber extraction being the last priority.
3. **Resource sustainability.** Community management of forests should lead to the protection and improvement of existing forest resources, rehabilitation of degraded ones, and conserve of soil, water, wildlife and biodiversity resources. This should result in higher productivity and sustainability of forest resources, and provide greater benefits to the steward-community.
4. **Integrated planning.** The CRMF should provide an integrated framework for the development, protection, and utilization of the forest resources. It should be consistent with, and forms an integral part of the conservation and management of the larger watershed as well as the area development plans of the LGU concerned.
5. **Recognition of indigenous people's rights and practices.** The management and utilization of forest resources shall promote the recognition and respect for the rights of indigenous peoples, and their indigenous knowledge, systems and practices including the protection of their intellectual property rights where these exist.
6. **Gender parity.** The management and utilization of forest resources shall provide equal opportunities for men and women to participate and share in attendant responsibilities and benefits.
7. **Effective resource utilization.** Utilization of existing resources shall be based on sound ecological and economic principles. Plantation timber species, non timber forest products and lesser-used species shall be given priority in utilization and extraction within the CBFMA area. A portion of the income derived from the utilization of forest resources, which shall be by the community, shall be re-invested in the development of the community's CBFM area, e.g., capital build-up for the PO, community facilities such as water systems and infrastructure, and improvement of forest resource base.



#### Section 4. Preparation of the CRMF

The People's Organization (PO) shall prepare the CRMF with the assistance of the DENR CENRO CBFM staff and, where agreements on partnership and cooperation exists between a DENR unit and its counterpart LGU, staff of such LGU. The PO may also call upon other government and non-government organizations for assistance. The CRMF shall contain the following (a suggested outline of the CRMF is given in Annex 3):

1. A summary of the community socio-economic profile, present land uses in the CBFM area, including indicative mapping of the vegetative cover which may be presented in a community map.
2. The community's envisioned land use for the CBFM area, which shall also be shown on a community map based on materials submitted in support of their CBFMA.
3. The community's strategies to protect, rehabilitate, develop and utilize its CBFMA area and the resources therein on a sustainable basis.
4. Indicative plan on how the community will manage and finance their activities.
5. Indication of how the community will market the services and/or products from its CBFM area.
6. The community's own indicators on the impacts of their forest management activities, and indicators of progress and well being in their own perspective.

The CRMF may be written in the community's own dialect to ensure all understanding by the members. The CENRO shall cause the translation of the CRMF into Pilipino and/or English for the understanding of groups external to the community.

To further integrate the concerns and generate the support of other sectors in the community, the draft CRMF may be discussed in public consultation organized by the PO with the assistance of the CENRO and the LGU concerned.

#### Section 5. Preparation of the Annual Work Plan

The PO/IP, assisted by the CENRO, shall prepare an Annual Work Plan that will describe the PO's/IP's activities and targets for implementing the CRMF or ADMP. These activities shall include, but are not limited to, forest protection, rehabilitation, development and utilization, organizational and community strengthening, and enterprise development. An outline of the AWP is attached as Annex 4.

The PO/IP shall prepare and submit its AWP for each succeeding year during the final quarter of the current year for affirmation by the DENR CENRO Officer. In preparing its AWP, the PO/IP shall take into account the progress made in previous years and update the areas where the community is working on the CBFMA/CADC community map, and ensure that the AWP is always consistent with their CRMF.

Where the PO/IP intends to harvest any of the forest products such as timber, rattan, resins, bamboo, etc., the PO/IP shall prepare a Resource Use Plan (RUP). In the case of IPs, no RUP needs to be prepared when the harvesting is done as an exercise of their traditional use rights within their certified ancestral domain claims.

The RUP shall indicate the resources to be harvested/utilized, the approximate area and the location of the subject resource that will be harvested for that year (to be indicated in a copy of the CBFMA/CADC community map), and the expected approximate quantity to be harvested during the period. It shall also indicate the community's expected harvesting schedule and extraction methods to be employed, as well as plans on marketing the products.

Planned assistance by the CENRO staff to support PO/IP resource use planning shall be included in the AWP activity schedule affirmed by the CENR Officer as part of the AWP. Part of the assistance shall be in determining the extraction/harvest levels of the resource, based on allowable cut determination prescribed by existing rules and regulations on the matter. In the area of timber trees, the PO/IP shall be assisted by the CENR staff concerned to inventory and mark those intended to be cut, and shall attach a Tree Marking List to the RUP Affirmation Form included in the AWP. This Tree Marking List which indicates the tree number, species, diameter and height, shall be the basis for the PO/IP allowable cut embodied in the AWP/RUP.

#### Section 6. Affirmation of the CRMF and AWP

The CRMF and AWP shall be signed by the Head of the PO/IP on behalf of the DENR. The affirmation by the CENR Officer is a confirmation of the DENR's active involvement in the preparation thereof, and serves as a statement of commitment to support the PO/IP in the implementation. Copies of the affirmed CRMF and AWP shall be provided the municipal and provincial governments concerned, CENRO, PENRO, DENR Regional Office, and CBFMO.

#### Section 7. Interim Resource Use Permit

POs/IPs who are holders of CBFMA or CADC may be granted Interim Resource Use Permits (IRUP) at the beginning of their CBFM work in order to generate start-up resources needed for resource assessments, rural appraisals, planning and similar preparatory activities. IRUP shall be granted by the CENRO, upon the request of the PO; it shall be granted only once, and it shall have a maximum effectivity of one year, and shall terminate upon the affirmation of the first AWP of the PO/IP group.

The quantity of resources that shall be granted for usage/extraction under the IRUP shall be determined judiciously by the CENRO, based on historical data in the locality with respect to the sustainable use/extraction rates for the particular resource. The CENRO CBFM staff shall conduct low intensity inventory of the resource availability in the area from which the quantity to be granted under the IRUP shall come from. The inventory shall serve to validate the historical data used as basis.



ANNEX 1. Glossary of terms and acronyms

Ancestral Domains - refer to all lands and natural resources, occupied and possessed by indigenous cultural communities/indigenous peoples (ICCs/IPs) by themselves or through their ancestors, communally or individually, in accordance with their customs and traditions since time immemorial, continuously to the present, except when interrupted by war, force majeure, or displacement by force, deceit, or stealth.

Ancestral Domain Management Program (ADMP) – the plan prepared by an indigenous people's group/tribe for the management of their certified ancestral domains claims in accordance with DENR DAO 96-34

AWP - Annual Work Plan

CENRO – the DENR Community Environment and Natural Resources Office, or the head of that office when so spelled out.

Certificate of Ancestral Domain Claim (CADC) - a certificate issued by DENR to an indigenous cultural community declaring and recognizing their claim to a particular territory and the natural resources therein which they have possessed and occupied, communally or individually, in accordance with their customs and traditions.

Community - is a group of people residing within or adjacent to the forest land, who share common interests, needs, visions, goals and beliefs in the sustainable management of the forest lands and resources.

Community-Based Forest Management Strategy - refers to all organized efforts of government to work with communities in and adjacent to public forest lands with the intent to empower them, and entrust to them the protection, rehabilitation, management, conservation, and utilization of the forest lands and resources therein.

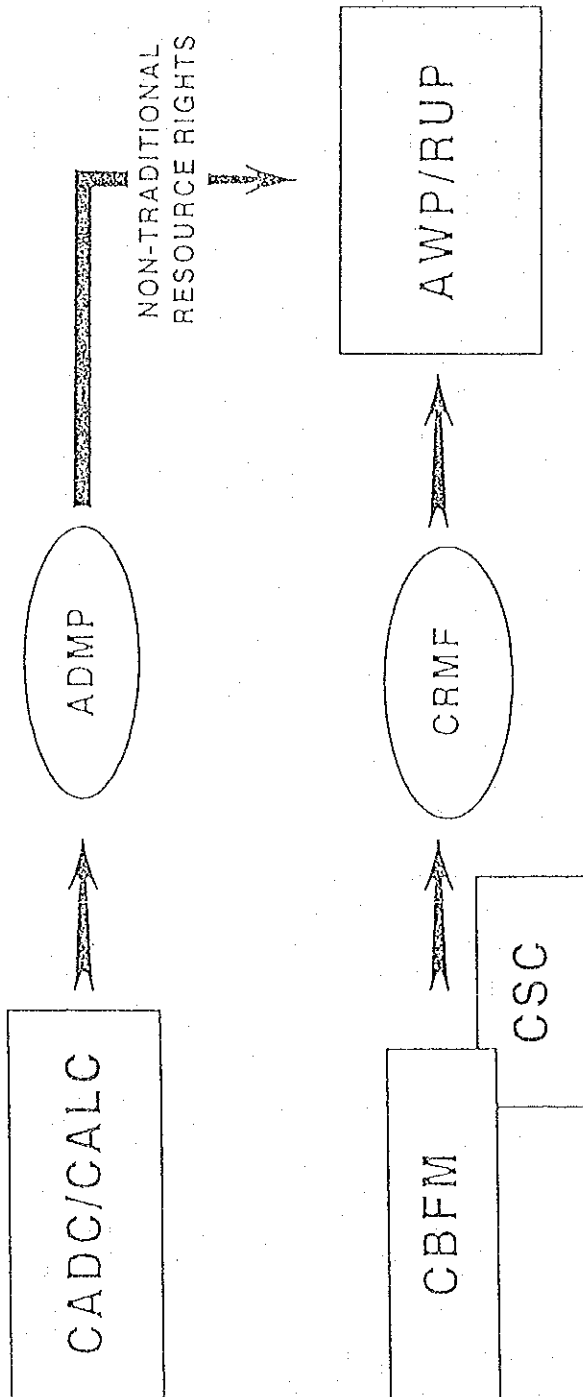
Community-Based Forest Management Agreement (CBFMA) – an agreement entered into between a community and the government, for the former to develop, utilize and manage, consistent with the principles of sustainable development, existing forestry laws and regulations and other terms and conditions mutually agreed upon by the two parties. The latter may provide technical assistance to the former, in implementing the terms and conditions of the agreement.

Community Resource Management Framework – is a document that embodies the community's expression of its visions, aspirations and indicative strategies for the sustainable management of the entire CBFM area and its resources, for the benefit of its members and the community.

People's Organization (PO) – is a legally constituted association, cooperative, federation, or other entities, formed by the community to participate in the CBFM program. It also refers to the traditional association or organization of indigenous peoples.

Tenure - guaranteed peaceful possession and use of specific forest land area and the resources found therein covered by an agreement, contract or grant which cannot be altered or abrogated without due process.

Annex 2. The relationship between CRMF and ADMP



ANNEX 3. Suggested CRMF Outline

1. Basic Information (may be included in a coversheet or summarized on the first page).
  - 1.1 Name and address of the PO
  - 1.2 Name of the Head of PO
  - 1.3 Number and date of registration of PO
  - 1.4 Total number of members
  - 1.5 Type, number and date of issuance of tenurial instrument
  - 1.6 Total area covered by tenurial instrument
  - 1.7 Location of area covered by the tenurial instrument
2. Present Situation (based on information submitted for tenurial instrument)
  - 2.1 The community
    - 2.1.1 Demographics: population, approximate population exploiting forest resources for livelihood; ethnic or sectoral composition; common language/dialect(s) in use
    - 2.1.2 Economic: common livelihood activities including special attention to forest-based activities; potential sources of resources/funds/financing
    - 2.1.3 Socio-political: educational attainment profile; existing social infrastructure; existing or planned government projects on environment and natural resources; non-governmental organizations operating in the community.
  - 2.2 The CBFMA area
    - 2.2.1 Location: description (e.g., topography and accessibility)
    - 2.2.2 Present land uses and approximate vegetative cover status
    - 2.2.3 Known important resources in the area (e.g., ecotourism, water, timber and non-timber)
  - 2.3 Community Challenges
    - 2.3.1 Known or perceived constraints to the implementation of CBFM
    - 2.3.2 Assistance required from DENR or other agencies
3. Strategic Resource Management Plan
  - 3.1 Community's resource management vision

*DENR Memorandum Circular No. 97-12*

- 3.2 Community's general goals and objectives (organizational and physical)
- 3.3 Community's envisioned forest land use and resource use allocation
- 3.4 Joint community/DENR assessment of resources usage/extraction
- 3.5 Community's indicative forest management strategies
- 3.6 Community's proposed environmental and socio-economic impact indicators and for monitoring performance based on the terms of the tenorial instrument
- 3.7 Community's proposed financing strategy and accessing resource/funds
- 3.8 Community's proposed marketing strategies

4. Attachments

- 4.1 Community maps of existing forest land use and vegetative cover
- 4.2 Community maps of envisioned land use and resource use allocation
- 4.3 PO organizational chart
- 4.4 List of officers and members

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[See hierarchy of resource utilization, see Sec. 1, para5 of the Circular]

ANNEX 4. Suggested AWP Outline

1. Basic Information

- 1.1 Name and address of the PO/IP
- 1.2 Name of the Head of PO/IP
- 1.3 Number and date of registration of PO
- 1.4 Total number of members
- 1.5 Type, number, and date of issuance of tenurial instrument
- 1.6 Total area covered by tenurial instrument
- 1.7 Location of area covered by tenurial instrument

2. Activities and Targets (may be presented in Gantt chart if convenient and understood)

- 2.1 Activity 1: \_\_\_\_: approximate time frame
- 2.2 Activity 2: \_\_\_\_: approximate time frame
- 2.3 Activity 3: \_\_\_\_: approximate time frame

3. Resource Development

- 3.1 Forest protection
- 3.2 Community strengthening
- 3.3 Infrastructure development
- 3.4 Enterprise development; including financing
- 3.5 IEC activities
- 3.6 On-farm, off-farm development

4. Resource Use Plan

- 4.1 Forest services/products to be utilized
- 4.2 Approximate area of activity (may be indicated on the community map if convenient)
- 4.3 Approximate quantity of resources to be utilized
- 4.4 Methods of resource usage (for non-extractive use such as ecotourism), or harvesting, (for extractive use)
- 4.5 Planned development or rehabilitation of extracted resource
- 4.6 Marketing of resource services or products

5. Attachments

- 5.1 Community maps showing approximate present land use and vegetative cover, and planned areas for protection, rehabilitation, development and utilization (as appropriate)
- 5.2 Description of resource to be used (for non-extractive uses) or inventory of resources to be utilized (for extractive uses)



ANNEX 5.a Steps in the Formulation of CRMF

Activities	Outputs	Responsible Person/Office
<p>1. Preparatory Activities</p> <p>1.1 Orientation of PO on CRMF preparation</p> <p>1.2 Training on CRMF preparation including community mapping, visioning, etc.</p>	<ul style="list-style-type: none"> <li>• Better understanding of CRMF concepts and principles</li> <li>• Mobilization/formation of PO Planning Team</li> <li>• Trained PO Planning Team</li> <li>• CRMF Formulation Action Plan</li> </ul>	<ul style="list-style-type: none"> <li>• PMO/CENRO/LGU counterpart</li> <li>• PO</li> <li>• PMO/CENRO/LGU counterpart</li> <li>• PO Planning Team</li> </ul>
<p>2. Sectoral Planning workshop/activities</p>	<ul style="list-style-type: none"> <li>• Community Profile</li> <li>• Forest resource profile</li> <li>• Vision</li> <li>• Aspirations</li> <li>• Strategies on forest management and utilization</li> <li>• Community maps (existing and vision)</li> </ul>	<ul style="list-style-type: none"> <li>• PO Planning Team/PMO/PGU counterpart</li> </ul>
<p>3. Consolidation of sectoral plans</p>	<ul style="list-style-type: none"> <li>• Draft CRMF</li> </ul>	<ul style="list-style-type: none"> <li>• PO Planning Team/PMO/LGU counterpart</li> </ul>
<p>4. Ratification</p>	<ul style="list-style-type: none"> <li>• CRMF ratified by the community</li> </ul>	<ul style="list-style-type: none"> <li>• PO Planning Team/PO Officers, PMO, LGU counterpart</li> </ul>
<p>5. Public consultation</p>	<ul style="list-style-type: none"> <li>• Improved CRMF</li> </ul>	<ul style="list-style-type: none"> <li>• PMO, PMO-CENRO, LGU representatives</li> </ul>
<p>6. Affirmation</p>	<ul style="list-style-type: none"> <li>• CRMF affirmed, copies given to LGUs concerned, PENRO, RED and CBFMO</li> </ul>	<ul style="list-style-type: none"> <li>• CENRO</li> </ul>

ANNEX 5.b Steps in the Formulation of AWP and RUP

Activities	Outputs	Responsible Person/Office
1. Preparatory Activities  1.1 Mobilization of Planning Team 1.2 Orientation/training of Planning Team	<ul style="list-style-type: none"> <li>• Planning Team mobilized</li> <li>• Trained Planning Team</li> <li>• AWP/RUP Formulation Action Plan</li> </ul>	<ul style="list-style-type: none"> <li>• PO</li> <li>• PMO/CENRO/LGU counterpart</li> <li>• PO Planning Team</li> </ul>
2. AWP/RUP Formulation		
2.1 Identification of Sectoral Priority Activities and Targets, RE: Development, protection, resource utilization, enterprise development, organizational strengthening	<ul style="list-style-type: none"> <li>• Sectoral plans</li> <li>• Community maps</li> </ul>	<ul style="list-style-type: none"> <li>• PO Planning Team/PMO/LGU counterpart</li> </ul>
2.2 Resource Assessment	<ul style="list-style-type: none"> <li>• Description of resource to be used (for non-extractive uses) or inventory of resources to be utilized (for extractive uses)</li> </ul>	<ul style="list-style-type: none"> <li>• Planning Team/Community, PMO &amp; LGU counterpart</li> </ul>
3. Consolidation of sectoral plans into AWP/RUP	<ul style="list-style-type: none"> <li>• Draft CRMF</li> <li>• Financing scheme</li> </ul>	<ul style="list-style-type: none"> <li>• Planning Team, PO Officers, PMO, CENRO and LGU counterpart</li> </ul>
4. Ratification of AWP/RUP	<ul style="list-style-type: none"> <li>• AWP/RUP approved by the community</li> </ul>	<ul style="list-style-type: none"> <li>• PO Planning Team/PO Officers, PMO, LGU counterpart</li> </ul>
5. Affirmation of AWP/RUP	<ul style="list-style-type: none"> <li>• AWP/RUP affirmed, copies given to LGUs concerned, PENRO, RED and CBFMO</li> </ul>	<ul style="list-style-type: none"> <li>• CENRO</li> </ul>

ANNEX 6. Affirmation of CRMF

TO : \_\_\_\_\_ (NAME OF PO) \_\_\_\_\_

Subject : Community Resource Management Framework of \_\_\_\_\_

\_\_\_\_\_ (the tenurial instrument, its location and area)

Pursuant to DENR Administrative Order No. 96-29 and MC No. 97-12, I hereby affirm the CRMF of \_\_\_\_\_ (name of PO) \_\_\_\_\_ peoples organization to be implemented in CBFMA No. \_\_\_\_\_. The \_\_\_\_\_ (Name of PO) \_\_\_\_\_ shall proceed with the implementation of the CRMF.

\_\_\_\_\_  
CENRO

cc. Municipal Government of \_\_\_\_\_  
Provincial Government of \_\_\_\_\_  
RED  
PENRO  
CBFMO

ANNEX 7. Affirmation of CRMF

TO : \_\_\_\_\_ (NAME OF PO)

Subject : Annual Work Plan of \_\_\_\_\_ (name of PO)  
for \_\_\_\_\_ period from \_\_\_\_\_ (month/day/19\_\_ ) to \_\_\_\_\_ (month/day/19\_\_ ).

Pursuant to DENR Administrative Order No. 96-29 and MC No. 97-\_\_\_\_, I hereby affirm the AWP of the \_\_\_\_\_ (name of PO) peoples organization to be implemented in CBFMA No. \_\_\_\_\_. Your organization is also authorized to utilize \_\_\_\_\_ (number of cubic meters or the other quantity) of \_\_\_\_\_ (type of regulated forest product), subject to existing forest laws and regulations. The \_\_\_\_\_ (Name of PO) may now proceed with the implementation of the AWP.

\_\_\_\_\_  
CENRO

- cc. Municipal Government of
- Provincial Government of
- RED
- PENRO
- CBFMO

## 1. 法令等

	資料名	著者/編者	発行年月	形式	ページ数
1	Advance Information / Reading Materials for the Preparatory Survey Team DENR Department Administrative Orders / Memo & Information on Existing CBFM Projects	JICA Expert's Office on Forestry Development, DENR	Dec/2000	Compiled	-
2	Presidential Decree No.75 (Revised Forestry Code of the Philippines)	GOP	-	Copy	41pp.
3	Prescribing New Guidelines and Procedural Manual in the Implementation of DAO 99-36	DENR	Nov. 1999	Copy	38pp.+annexes
4	Rules and Regulations Governing the Socialized Industrial Forest Management Program	DENR	Aug. 1996	Copy	19pp.
5	Regulations Governing the Integrated Forest Management Program (IFMP)	DENR	Dec. 1999	Copy	14pp.
6	Policies, Memorandum and Other Issuances on the National Forestation Program Volume III	DENR	1990	Copy	204pp.
7	DENR Administrative Order No. 99-36 (covering Pasture Land Agreement)	DENR	Aug/1999	Copy	15pp.
8	Endorsing for Financial Assistance the Establishment of a Sustainable-Self-Liquidating and Expansive Agro-Forestry Project in the Idle-Underutilized Tenured or Private Lands under Environmental Strategy of Quirino (ESQ) (RDC02 Resolution No. 02-17-2000)		-	Copy	15pp.

## 2. 流域管理

1	Guidelines for Watershed Management and Development in The Philippines	DST, DENR, DA and UP	1999	Book	242pp.
2	The Philippines Strategy for Improved Watershed Resources Management	DANIDA, DENR	Aug. 1998	Book	101pp.
3	Formulation of a Watershed Management Strategy and Investment Programme Report on National Watershed Information System(NWIS) Piloting Exercise (March-August 1998)	DANIDA, FMB/DENR	Sep/1998	Compiled	106pp.
4	Formulation of a Watershed Management Strategy and Investment Programme Annex3 The National Watershed Information System. Recommendations for further development and operation.	DANIDA, FMB/DENR	Sep/1998	Compiled	119pp.
5	Formulation of a Watershed Management Strategy and Investment Programme Task 2 The Role and Scope of a National Watershed Information System	DANIDA, FMB/DENR	Feb/1998	Compiled	108pp.
6	NPC Magat Watershed Profile	NPC	Dec/2000	Copy	4pp.
7	Operational Cost per Hectare NPC Magat Watershed	NPC		Copy	-
8	The Magat Watershed Under The Jurisdiction of NIA	NIA	Dec/2000	Copy	1p.
9	マガットダム月別気象観測データ (流入、流出量、降雨量、蒸発散量)	NIA	Nov/2000	Copy	4pp.

10	The Master Plan Study for Watershed Management in Upper Magat & Cagayan River Basin (アレゼンテーション資料)	DENR-Region2,	Dec/2000	Copy	13pp.
11	Casecnan & Kasibu River Watershed Site Characterization	PENRO(Nueva Viscaya)	Nov/2000	Copy	31pp.
12	Information and Reading Materials on Related Projects	JICA Expert's Office on Forestry Development, DENR	Dec/2000	Compiled	102pp.

3. 森林・林業

1	フィリピンの森林・林業事情	安藤和哉 (JICA 専門家)	Jul/2000	Copy	10pp.
2	Phillipine Forest Management	Sofio B. Quintana, Ph. D.	Oct/1999	Copy	16pp.
3	1999 Annual Report	DENR	-	Compiled	40pp.
4	Declaring and Setting Aside Certain Tracts of Public Forest Land within the Marikina Watershed Reservation, Province of Rizal for the DENR Employees Forest Production Area	DENR	Oct. 2000	Copy	7pp.
5	Guidelines in the Implementation of USUFRUCT Rights in Tree Farming within Forestlands where Occupation is not Allowed	DENR	Sep.1999	Copy	10pp.
6	An Act Providing for the Sustainable Management of Forest Resources and for Other Purposes	House of Representatives	1998ver.	Copy	43pp.
7	An Act Providing for the Sustainable Management of Forest Resources and for Other Purposes	House of Representatives	2000rev.	Copy	37pp.
8	Info Bulletin Vol.1 No. 1 January-June 1998: Yamane (Gmelina arborea, Roxb) Plantation Profile in Region 02: A Simple Guide for Wood-based Industry	Technology Transfer Division, DENR	-	Brochure	-
9	Info Bulletin Vol.1 No. 2 July-December 1998: Saliksik-Unlad sa Barangay: Gmelina (yamane) Plantation Tehcnology	Technology Transfer Division, DENR	-	Brochure	-
10	How to Recognize Plant Disorders Caused by Nonbiological Agents: A Guidebook	Ecosystems Research and Development Bureau, DENR	-	Brochure	12pp.
11	Ecosystems Research Digest Vol. 4 No. 6: Growth Response of Reforestation Species and Fruit Trees Treated with Softdrink Sludge	Ecosystems Research and Development Bureau, DENR	Aug/1998	Brochure	24pp.
12	DENR Recommends: Indigenous Reforestation Species	Ecosystems Research and Development Bureau, DENR	-	Brochure	-
13	National Forestation Program: Accomplishment on Area Planted (CY 1993 - CY 1999)	DENR Region 2	-	Copy	15pp.
14	Indicative Plan of the Lower Magat Forest Reserve, Bagabag and Diadi, Nueva Vizcaya		-	Copy	25 pp.
15	INPUTS and INCOME of One (1) Hectare Bagras Tree Crop	Forester Andres C. Bland, Provincial Consultant on Environment and Resources Enhancement	-	Copy	1p.

16	Table 1. Cost - Return and Protected Cash Flow Statement in Expansive Development of Self-Liquidating Agroforestry Project with CARESS Bagras as the Specialized Tree Crop in the Province of Quirino up to the Cagayan Valley Region	Forester Andres C. Bland, Provincial Consultant on Environment and Resources Enhancement	-	Transparency	1p.
17	Table 3. Cost and Return Analysis for one (1) Hectare Caress Bagras Plantation in the Province of Quirino (in Pesos)	Forester Andres C. Bland, Provincial Consultant on Environment and Resources Enhancement	-	Copy	1p.
18	Why "Caress bagras" as a tree crop	Forester Andres C. Bland, Provincial Consultant on Environment and Resources Enhancement	-	Copy	1p.
19	Investment on Trees is guaranteed by Divine Intervention with a little CARESS innovation	CARESS (Cortes Agri-Forestry Systems and Strategies) Technology Group. Inc.	-	Copy	1p.
20	"Tree farming ups income, cuts pressure"	Manila Bulletin	Oct/3/1999	Copy	1p.

#### 4. CBFM 関連

1	How to participate in the CBFM Program	DENR	Jun/1998	Brochure	23pp.
2	Investing in CBFM Communities	DENR	-	Brochure	
3	Frequently Asked Questions about CBFM	DENR	-	Brochure	12pp.
4	ABC's of implementing CBFM	DENR	-	Brochure	
5	A Compilation of Policies on Community-Based Forest Management (CBFM)	Community-Based Forest Management Office, DENR	1998	Book	142pp.
6	List of CBFMA and other ternal instruments and POs for the four provinces	Community Based Forest Management Office/DENR	As of Dec/2000	Copy	6pp.
7	CBFMA No. 74001: Federation of Community Resource Development Cooperatives (FEDCOMM)		Dec/1997	Copy	7pp. Incl. Map
8	Community Resource Management Framework of Federation of Community Resource Development Cooperatives (FEDCOMM); CBFMA NO. 74001		Apr/1998	Copy	23 pp. Incl. Map
9	Draft Annual Work Plan of FEDCOMM (Jun 1998 - May 1999)		-	Copy	18 pp.
10	Developing Tropical Forest Resources through Community-Based Forest Management (ITTO Project PD 21/97 Rev.2(F))	DENR/ITTO	-	Copy	14pp.
11	Progress Report on Plant Growth Measurement and Analysis in Experimental Plots (Developing Tropical Forest Resources through Community-Based Forest Management (ITTO Project PD 21/97 Rev.2(F)))	DENR/ITTO	-	Copy	113pp.
12	Project Document (Developing Tropical Forest Resources through Community-Based Forest Management (ITTO Project PD 21/97 Rev.2(F)))	DENR/ITTO	-	Copy	42pp.

13	Briefing Materials and Status of CBFM Project Implementation in Regions CAR and 2.	DENR Region 2	-	Copy	49pp.
14	List of CBFM Project in Region 02 (as of July 2000)	DENR Region 2	Jul/2000	Copy	4pp.
15	Community-Based Forest Management Agreement No. 020218306 (CBFMA NO. 020218306) of Don Mariano Perez Farmers Multi-Purpose Cooperative	DENR Office of the PENRO, Diffun, Quirino	Mar/1998	Copy	5pp.
16	Community Resource Management Framework (CRMF) of Don Mariano Perez Farmers Multi Purpose Cooperative, for twenty five (25) years period from January 1, 1998 to December 31, 2023	DENR Office of CENRO, Diffun, Quirino	Mar/1998	Copy	63pp.
17	List of Existing CBFM People's Organization Province of Nueva Vizcaya	PENRO Nueva Vizcaya	Dec/2000	Copy	13pp.
18	Community Resource Management Framework (Hapid Agro-forestry Developers Association Incorporated)	PENRO Ifugao	Dec/2000	Copy	9pp.
19	Awarded CBFMA within the Province of Ifugao	PENRO Ifugao	-	Copy	4pp.

#### 5. 社会経済

1	The President's 1999 Socioeconomic Report	GOP	Mar. 2000	Book	151pp.
2	NSO Monthly Bulletin of Statistics September 2000	National Statistics Office (NSO)	Sep. 2000	Compiled	108pp.
3	1995 Census-Based City/Municipal Population Projection	NSO	Dec. 1999	Book	76pp.
4	1997 Family Income and Expenditures Survey Vol. I	NSO	Jun/1999	Book	254pp.
5	1997 Family Income and Expenditures Survey Vol. II	NSO	Jun/1999	Book	449pp.
6	1995 Annual Survey of Establishments/Community, Social, and Personal Services(Private) VOLUMES X-A	NSO	Aug/1998	Compiled	178pp.
7	1995 Annual Survey of Establishments/Community, Social, and Personal Services(Private) VOLUME X	NSO	Aug/1998	Compiled	291pp.
8	1995 Annual Survey of Establishments/Transportation, Communication, and Storage and Warehousing	NSO	Jun/1999	Compiled	122pp.
9	1993 Annual Survey of Establishments/Electricity, Gas and Water	NSO	Jan/1997	Compiled	126pp.
10	The Philippines In Figures 1999	NSO	2000/	Compiled	42pp.
11	1995 Census of Population Cordillera Administrative Region(CAR)	NSO	Aug/1996	Compiled	42pp.
12	1995 Census of Population Cagayan Valley	NSO	Aug/1996	Compiled	66pp.
13	Ifugao In Focus: Its demographics & socio-economic profile	NSO/UNFPA	Jun/1999	Compiled	194pp.
14	Medium-Term Philippine Development Plan 1999-2004	NEDA	Sep. 2000	Book	398pp.



15	2000 Philippine Statistical Yearbook	National Statistical Coordination Board	Oct. 2000	Book	465pp.
16	Handbook on Community Profiling: For People-Oriented Forestry Projects	The Upland Development Program/DENR	1991	Book	158pp.
17	Participatory Planning Handbook: For People-Oriented Forestry	The Upland Development Program/DENR	1994	Book	112pp.
18	Guidebook on Income and Other Tax Liabilities of Cooperatives, Partnerships and Corporations	DENR	Jul/1998	Brochure	22pp.

#### 6. 環 境

1	Initial Components of NIPAS	DENR(EMB)	-	Copy	29pp.
2	Update on the Implementation of the NIPAS (DENR Regio 2)	DENR(EMB)	Oct/2000	Copy	4pp.
3	Procedural Manual for the Philippine Environmental Impact Statement(EIS) System - UNDP-funded Integrated Environmental Management for Sustainable Development Programme	DENR(EMB)	-	Copy	177pp.
4	Sustainable Livelihood Options for the Philippines: An information kit Upland Ecosystem	DENR	1997	Book	484pp.
5	Sustainable Livelihood Options for the Philippines: An information kit Urban-lowland Ecosystem	DENR	1997	Book	162pp.
6	Sustainable Livelihood Options for the Philippines: An information kit Coastal Ecosystem	DENR	1997	Book	234pp.
7	Ecosystems Research Digest Vol. 4 No. 6	Ecosystems Research and Development Bureau, DENR	Aug/1997	Brochure	22pp.
8	Ecosystems Research Digest Vol. 8 No. 2	Ecosystems Research and Development Bureau, DENR	Jul-Dec/1998	Brochure	20pp.
9	Soil & Water Conservation Measures: An Approach to control soil erosion and land degradation	Adeluisa G. Siapno, Ph. D./DENR	-	Brochure	-
10	Environmental Strategy of Quirino	Office of the Provincial Governor, Province of Quirino	-	Copy	3pp.
11	Project Proposal	Forester Andres C. Bland, Provincial Consultant on Environment and Resources Enhancement	-	Copy	8pp.
12	Project Proposal (Environmental Strategy of Quirino (ESQ))	Forester Andres C. Bland, Provincial Consultant on Environment and Resources Enhancement	-	Copy	5pp.

13	ESQ related figures and tables	Forester Andres C. Bland, Provincial Consultant on Environment and Resources Enhancement	-	Copy	10pp.
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7. 州別情報

1	Provincial Profile IFUGAO	NSO	Mar/1996	ditto	172pp.
2	Basic Profiling of Upper Magat Watershed Province of Ifugao	JICA Expert's Office on Forestry Development, DENR	Dec/2000	Compiled	102pp.
3	PENR Office Profile etc.	PENRO Nueva Vizcaya	Dec/2000	Copy	26pp.
4	Issues and Threats: Nueva Viscaya and Quirino Provinces	PENRO Quirino	-	Copy	2pp.
5	Statistical Profile of CENRO Nagtipunan, Quirino	CENRO, Nagtipunan	-	Copy	7pp.
6	Classified Image of Nueva Vizcaya (ERDAS Format)	NAMRIA(National Mapping & Resources Information Agency)	2000/	CD-ROM	1

8. 他ドナープロジェクト関連

1	A Compilation of DENR Foreign Assisted and Special Projects	DENR-FASPO	April, 2000	Compiled	74pp.
2	Magat Watershed Subproject Appraisal Report	DENR/OECF	-	Compiled	38pp.+ summary tables
3	Forestry Sector Project, Assessment of Project Implementation and Revised Implementation Program	DENR/NIPPON KOEI CO., LTD.	Jul/2000	Copy	-
4	Profile of Dumayop Subwatershed Subproject	DENR Region 2	-	Brochure	-
5	Philippine-German Community Forestry Project-Quirino Profile	RP-German CFPQ Project Office	-	Copy	14pp.
6	Philippine-German Community Forestry Project-Quirino, Profile and Implementation Status	RP-German CFPQ Project Office	-	Copy	20pp.

## 9. 地形図

	地名	シート名 (番号)	縮尺	作成 (版・印刷) 年	航空写真撮影年
1	PHILIPPINES		1/1,500,000	1995	
2	BONTOC	2505	1/250,000	1993	1946-52
3	DAGUPAN CITY	2507	1/250,000	1975	1946-52
4	LAUR	2510	1/250,000	1993	
5	SOLANO	2508	1/250,000	1992	
6	MARIA AURORA	7274 I	1/50,000	1990	
7	PANTAPANGAN	7274 IV	1/50,000	1993	
8	KASIBU	7275 I	1/50,000		
9	TAUAYAN	7275 II	1/50,000	1990	
10	BURGOS	7275 III	1/50,000		
11	BAYOMBONG	7275 IV	1/50,000	1990	
12	BALER	7374 IV	1/50,000	1990	
13	NAPALIONG	7376 II	1/50,000		
14	SANTIAGO	7376 III	1/50,000	1990	
15	SAN MATEO	7376 IV	1/50,000		
16	BUNHIAN	7276 I	1/50,000		
17	CORDON	7276 II	1/50,000	1990	
18	SOLANO	7276 III	1/50,000	1999	
19	LAGAWE	7276 IV	1/50,000		
20	MANKAYAN	7176 I	1/50,000	1990	
21	KABAYAN	7176 II	1/50,000	1990	
22	SAN NICOLAS	7175 II	1/50,000	1999	
23	KAYAPA	7175 I	1/50,000	1990	
24	VIRGONEZA	7375 I	1/50,000	1990	
25	DINALONGAN	7375 II	1/50,000	1990	
26	NAGTIPUNAN	7375 III	1/50,000	1990	
27	MADELA	7375 IV	1/50,000	1990	

10. 主題図

	主題図名	縮尺	作成年	データソース・備考
1	LAND USE AND FOREST TYPE MAP(7275 BAYOMBONG)	1/100,000	1993	JAFTA 作成(LANDSAT TM Path116-Row49 1993.Apr.2 取得)
2	LAND USE AND FOREST TYPE MAP(7375 MADDELA)	1/100,000	1993	JAFTA 作成(LANDSAT TM Path116-Row49 1993.Apr.2 取得)
3	LAND USE AND FOREST TYPE MAP(7376 SANTIAGO CITY)	1/100,000	1993	JAFTA 作成(LANDSAT TM Path116-Row49 1993.Apr.2 及び Path116-Row48 1992.Mar.14 取得)
4	LAND USE AND FOREST TYPE MAP(7176 KABAYAN)	1/100,000	1993	JAFTA 作成(LANDSAT TM Path116-Row49 1993.Apr.2 及び Path116-Row48 1992.Mar.14 取得)
5	LAND USE AND FOREST TYPE MAP(7374 BALER)	1/100,000	1993	JAFTA 作成(LANDSAT TM Path116-Row49 1993.Apr.2 取得)
6	LAND USE AND FOREST TYPE MAP(7276 CORDON)	1/100,000	1993	JAFTA 作成(LANDSAT TM Path116-Row49 1993.Apr.2 及び Path116-Row48 1992.Mar.14 取得)
7	LAND USE AND FOREST TYPE MAP(7274 PANTABANGAN)	1/100,000	1993	JAFTA 作成(LANDSAT TM Path116-Row49 1993.Apr.2 取得)
8	LAND USE AND FOREST TYPE MAP(7175 SAN NICOLAS)	1/100,000	1993	JAFTA 作成(LANDSAT TM Path116-Row49 1993.Apr.2 取得)
9	ADMINISTRATIVE MAP(IFUGAO)	1/150,000		NAMRIA
10	ADMINISTRATIVE MAP(QURINO)	1/150,000		NAMRIA
11	ADMINISTRATIVE MAP(ISABELA)	1/200,000		NAMRIA
12	ADMINISTRATIVE MAP(NUEVA VISCAYA)	1/150,000		NAMRIA
13	LOCATION MAP OF FFWS MAGAT SUB-SYSTEM	1/150,000		NIA (マガットダム観測所位置図)
14	PLANTATION MAP	1/50,000	1995	NIA (マガットダム植林範囲管轄図)
15	WATERSHED MAP, SEDIMENT RANGE SYSTEM, RANGE PROFILE	H=1/8,000 V=1/500	1999	NIA マガットダム堆砂観測縦断・流域範囲図
16	SEDIMENT RANGE PROFILE, TIME VS LEVEL OF SEDIMENT OBSERVED SEDIMENTATION RATES	H=1/5,000 V=1/500 H=1/500 V=1/800	1999	NIA (マガットダム堆砂観測データ図)
17	EROSION MAP OF UPPER MAGAT AND UPPER CAGAYAN RIVER BASIN	1/250,000		DENR Region 2
18	DRAINAGE MAP	1/250,000		DENR Region 2
19	POLITICAL BOUNDARY MAP	1/250,000		DENR Region 2
20	VEGETATIVE COVER MAP	1/250,000		DENR Region 2
21	LAND USE MAP	1/250,000		DENR Region 2 (林業プロジェクト位置・範囲図)
22	LAND USE MAP	1/250,000		DENR Region 2
23	WATERSHED BOUNDARY MAP	1/50,000		PENRO(N.V.)
24	LAND USE MAP	1/50,000	1999	PENRO(N.V.) CENRO(Antao, DUPAX&BAYOMBONG) Land Use Map 1/50,000 JAFTA Land Use & Forest Type Map 1993 1/100,000 NAMRIA Topo-Map 1990 1/50,000
25	FIVE YEAR DEVELOPMENT PLAN MAP (MUGAN CABANGLASAN WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) JAFTA Forest & Land Use Type Map 1/100,000 1993, PENRO Land Use Map 1/50,000

26	TOPOGRAPHIC MAP (MAGAT WARESHED PROJECT)	1/50,000	1999	PENRO(N.V.) * 100m コンター及び州界のみ NAMRIA Topographic Map 1/50,000
27	WATERSHED MAP (MAGAT WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) NAMRIA TOPOGRAPHIC MAP 1/50,000
28	LAND SURVEY/CADASTRAL MAP (MAGAT WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) CENRO(Buyombong&Artao) Cadastral, Public Land, Subdivision, Group Settlement Survey Maps 1/4,000
29	PROTECTION FOREST MAP (MAGAT WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) DENR Erosion & Slope 1993 1/50,000
30	LAND USE MAP (MAGAT WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) DENR, Mines & Geosciences Bureau, R-02
31	SLOPE MAP (MAGAT WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) DENR Slope Map 1993 1/250,000, NAMRIA Topo-map 1990 1/50,000
32	VEGETATIVE MAP (MAGAT WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) DENR, R.O., Thematic Map 1/250,000
33	SOIL MAP (MAGAT WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) DA (農業庁), Bureau of Soils, Soil Map of N.V.
34	LAND SUITABILITY MAP (MAGAT WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) DENR, Soil Suitability Map 1/250,000, NAMRIA Topo-map 1/50,000
35	SOIL MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) DA (農業庁), Bureau of Soils, Soil Map of N.V.
36	EROSION MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) DENR, Mines&Geosciences Bureau, Region 02 Map 1/600,000
37	MINERAL AREAS/CLAIMS APPLICATION MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) DENR, Mines&Geosciences Bureau, Region 02 Map 1/600,000
38	SOCIO-DEMOGRAPHIC MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) NSO 1995 Census of Population & Report on Socio-Demographic Characteristics
39	GEOLOGIC MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) Mineral Distribution Map
40	LAND USE MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) CENRO(Artao) Base Map 1/50,000
41	LAND SURVEY/CADASTRAL MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) CENRO(Artao) Land Classification Map 1/50,000
42	LAND SUITABILITY MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.)
43	FOREIGN ASSISTED PROJECTS MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) CENRO(Artao) Operation Map 1/50,000
44	TOPOGRAPHIC MAP (PAMPANG WARESHED PROJECT)	1/50,000	1999	PENRO(N.V.) NAMRIA Topo-Map 1990 1/50,000
45	WATERSHED MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) NAMRIA Topo-Map 1990 1/50,000
46	MUNICIPAL & PROVINCIAL BOUNDARY MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) CENRO(Artao) L. C. Map 1/50,000
47	PROTECTION FOREST MAP (PAMPANG WATERSHED PROJECT)	1/50,000	1999	PENRO(N.V.) DENR, Slope & Erosion Map 1993 1/250,000 NAMRIA Topo-Map 1990 1/50,000

48	PROTECTION FOREST MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) DENR, Erosion & Slope Map 1/250,000 NAVRIA, Topo-Map 1990
49	FOREIGN ASSISTED PROJECTS MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) CENRO(Aritao & Bayombong) Operation Map 1/50,000
50	GEOLOGIC MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.), Mineral Distribution Map, Mineral Resources Inventory Project Region II, 1990, 1/250,000
51	LAND SURVEY/CADASTRAL MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) CENRO(Aritao & Bayombong) Base Map 1/50,000 & Cadastral Map 1/4,000
52	EROSION MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.), Erosion Map 1997 1/50,000
53	MINERAL AREAS/CLAIMS APPLICATION MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) DENR, Mines&Geosciences Bureau Region 02 Map 1/600,000
54	SLOPE MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) DENR Slope Map 1993 1/250,000, NAVRIA Topo-map 1990 1/50,000
55	LAND SUITABILITY MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) DA (農業省), Land Resources Evaluation Project 1985)
56	LAND USE MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) CENRO(Aritao & Bayombong) Land Use Map 1/50,000
57	VEGETATIVE MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) CENRO(Aritao & Bayombong) Land Use Map 1/50,000
58	MUNICIPAL & PROVINCIAL BOUNDARY MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) CENRO(Aritao & Bayombong) Base Map 1/50,000
59	SOIL MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) Soil Map 1/100,000 DA, Soil Map 1/150,000
60	TOPOGRAPHIC MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.), NAVRIA Topo-Map 1990 1/50,000
61	WATERSHED MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.), NAVRIA Topo-Map 1990 1/50,000
62	SOCIO-DEMOGRAPHIC MAP (MATUNO WATERSHED PROJECT)		1/50,000	1999	PENRO(N.V.) CENSUS 1995
63	SOIL MAP (UPPER CASECNAN WATERSHED)		1/50,000		PENRO(N.V.)
64	ELEVATION MAP (UPPER CASECNAN WATERSHED)		1/50,000		PENRO(N.V.)
65	CLIMATE MAP (UPPER CASECNAN WATERSHED)		1/50,000		PENRO(N.V.)
66	LAND USE MAP (UPPER CASECNAN WATERSHED)		1/50,000		PENRO(N.V.)
67	POLITICAL BOUNDARY MAP (UPPER CASECNAN WATERSHED)		1/50,000		PENRO(N.V.)
68	GEOLOGIC MAP (UPPER CASECNAN WATERSHED)		1/50,000		PENRO(N.V.)
69	DRAINAGE MAP (UPPER CASECNAN WATERSHED)		1/50,000		PENRO(N.V.)
70	SLOPE MAP (UPPER CASECNAN WATERSHED)		1/50,000		PENRO(N.V.)
71	EROSION MAP (UPPER CASECNAN WATERSHED)		1/50,000		PENRO(N.V.)
72	POPULATION MAP (UPPER CASECNAN WATERSHED)		1/50,000		PENRO(N.V.)

73	LAND CLASSIFICATION MAP (UPPER CASECNAN WATERSHED)	1/50,000	PENRO(N.V.)
74	PRODUCTION MAP (UPPER CASECNAN WATERSHED)	1/50,000	PENRO(N.V.)
75	POPULATION MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
76	SOIL MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
77	EROSION MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
78	LAND CLASSIFICATION MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
79	DRAINAGE MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
80	SLOPE MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
81	PRODUCTION MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
82	CLIMATE MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
83	VEGETATIVE MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
84	POLITICAL BOUNDARY MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
85	LAND USE MAP (KASIBU RIVER WATERSHED)	1/50,000	PENRO(N.V.)
86	PHOTO COVERAGE INDEX MAP (REGION 2 ISABELA)	1/50,000	1988
87	LAND USE MAP (SOLANO)	1/50,000	2000
88	PROVINCIAL BOUNDARY MAP (PROVINCE OF IFUGAO)*	約 1/350,000	NAMRIA
89	DRAINAGE PATTERN MAP (PROVINCE OF IFUGAO)*	約 1/350,000	NAMRIA, Topo-Map 1/50,000
90	LAND CLASSIFICATION MAP (PROVINCE OF IFUGAO)*	約 1/350,000	NAMRIA, Topo-Map 1/50,000 Land Classification Map
91	LAND USE MAP (PROVINCE OF IFUGAO)*	約 1/350,000	NAMRIA, Topo-Map 1/50,000
92	SLOPE MAP (PROVINCE OF IFUGAO)*	約 1/350,000	NAMRIA, Topo-Map 1/50,000
93	SOIL MAP (PROVINCE OF IFUGAO)*	約 1/350,000	NAMRIA DA, Bureau of Soils and Water Management, Soil Map
94	LAND SUITABILITY MAP (PROVINCE OF IFUGAO)*	約 1/350,000	NAMRIA, Topo-Map 1/50,000 Land Classification Map
95	PEOPLE-ORIENTED FORESTRY PROJECT SITES (RP-GERMAN COMMUNITY FORESTRY PROJECT, QURINO:CFPQ)	約 1/750,000 (?)	Decline of the Philippine Forest, BSSC, 1999 PENRO(Quirino) Operations Map 1/600,000 NAMRIA Land Use Map 1/2,000,000, Topo-Map 1/250,000 Quirino Administrative Map 1/150,000
96	MAP SHOWING THE PROPOSED PROJECTS WITHIN MAGAT WATERSHED (PROVINCE OF IFUGAO)	1/500,000	PENRO(IFUGAO)

\*元データは縮尺 1/50,000 の数値データ

JICA