



**JAPAN INTERNATIONAL COOPERATION AGENCY**



**DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
THE REPUBLIC OF THE PHILIPPINES**

**THE MASTER PLAN STUDY  
FOR  
WATERSHED MANAGEMENT  
IN  
UPPER MAGAT AND CAGAYAN  
RIVER BASIN  
IN  
THE REPUBLIC OF THE PHILIPPINES**



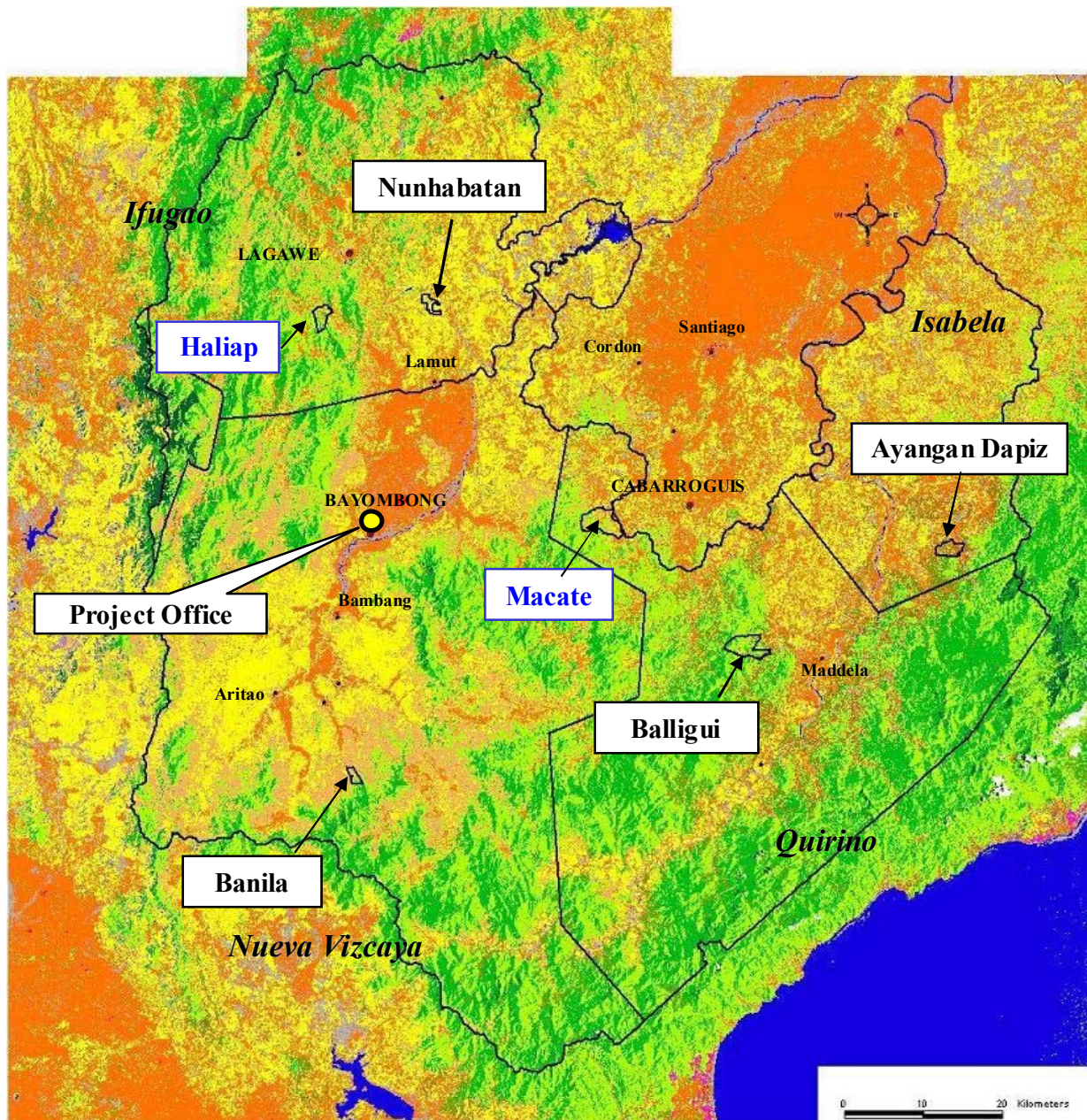
**Final Report  
Volume II : Pilot Study**

**February 2004**

**NIPPON KOEI CO., LTD.  
AND  
JAPAN OVERSEAS FORESTRY  
CONSULTANTS ASSOCIATION**

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J R
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- Major city
- Boundary of Province

**Location Map of the Pilot Project Sites**

**THE MASTER PLAN STUDY  
FOR  
WATERSHED MANAGEMENT  
IN  
UPPER MAGAT AND CAGAYAN RIVER BASIN**

**FINAL REPORT  
VOLUME II: Pilot Study**

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## **List of Abbreviation**

<b>Abbreviation</b>	<b>Term</b>
ANR	Assisted Natural Regeneration
AO	Assisting Organization
ASU	Administrative Support Unit
AWP	Annual Work Plan
BSU	Benguet State University
CADC	Certificate of Ancestral Domain Claims
CALC	Certificate of Ancestral Land Claims
CAP	Community Action Planning
CBFM(A)	Community-Based Forest Management (Agreement)
CBFM-IS	Community-Based Forest Management Information System
CBFMO	Community-Based Forest Management Office
CBFMP	Community-Based Forest Management Program
CBFMSA	Community-Based Forest Management Special Account
CDA	Cooperative Development Authority
CENRO	Community Environment and Natural Resources Office/r (DENR)
CFDF	Community Forestry Development Fund
CLOA	Certificate of Land Ownership Award
COA	Commission on Audit
COSU	Community Organizing and Strengthening Unit
CRMF	Community Resource Management Framework
CSC	Certificate of Stewardship Contract
CV-HLROS	Cagayan Valley Hill Land Research Outreach Station
CV-UPROS	Cagayan Valley Upland Research Outrage Station
DA	Department of Agriculture
DAO	Department Administrative Order
DBM	Department of Budget and Management
DENR	Department of Environment and Natural Resources
DOLE	Department of Labor and Employment
EU	Extension Unit
FASPO	Foreign Assisted Special Project Office
FLGMA	Forestland Grazing Management Agreement
FMB	Forest Management Bureau (DENR)
FPMO	Field Project Management Office
FSP	Forestry Sector Project
GIS	Geographic Information System
GPS	Global Positioning System
I/P	Implementation Program
IEC	Information, Education, Communication
IFMA	Integrated Forest Management Agreement
IFS	Integrated Farming System

Abbreviation	Term
IU	Implementation Unit
JBIC	Japan Bank for International Cooperation
JICA	Japan International Cooperation Agency
LGU	Local Government Unit
LOCSA	Local Community System Analysis
LOSSA	Local Social System Analysis
M&E	Monitoring and Evaluation
M/P	Master Plan
MPCI	Multipurpose Cooperative, Inc.
MAO	Municipal Agricultural Office
MC	Memorandum Circular
NAMRIA	National Mapping and Resource Information Authority (DENR)
NAPOCOR	National Power Corporation
NCIP	National Commission on Indigenous Peoples
NGO	Non-Government Organization
NIA	National Irrigation Administration
NPC	National Power Corporation
NVIST	Nueva Vizcaya Institute of Science and Technology
PAMB	Protected Areas Management Board
PCCI	Philippine Chamber of Commerce and Industry
PENRO	Provincial Environment and Natural Resources Office/r (DENR)
PMO	Project Management Office
PO	People's Organization
POCB	People's Organization Capability Building
PPMO	Pilot Project Management Office
PRA	Participatory Rural Appraisal
SALT	Sloping Agricultural Land Technology
SEC	Securities and Exchange Commission
SIFMA	Socialized Industrial Forest Management Agreement
SME	Small and Micro Enterprise
TNA	Training Needs Analysis
TOR	Terms of Reference
TSI	Timber Stand Improvement
WMC	Watershed Management Council

Measurements			
km <sup>2</sup>	Square kilometers	ha	Hectares
m <sup>2</sup>	Square meters	mm	Millimeter
MT	Million tons		