



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 I : Main Text**

February 2004

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

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February 2004

Mr. Shinki Suzuki
Vice-President
Japan International Cooperation Agency

Dear Sir,


We are pleased to submit to your agency the Final Report on "The Master Plan Study for Watershed Management in Upper Magat and Cagayan River Basin in the Republic of the Philippines". This report presents the results of all the studies conducted in both the Philippines and Japan over a three-year period from March 2001 to February 2004.

The study formulated a comprehensive watershed management plan with a target year of 2015 with the aim of attaining sustainable watershed management in the whole study area through the restoration of degraded lands and improvement of the living conditions of the local people. We believe that implementation of this holistic plan will contribute much to improve the natural environment and socio-economic situation in the whole river basin.

We, therefore, hope that the Philippine government will soon commence implementing the programs proposed in the master plan and follow the implementation schedule presented in this report.

Finally, we wish to express our deep appreciation and sincere gratitude to your agency, the advisory Committee, the Ministry of Agriculture, Forestry and Fisheries, the Embassy of Japan in the Philippines, JICA Philippine Office, and the Government of the Republic of the Philippines for the close cooperation and assistance extended to us during our study.

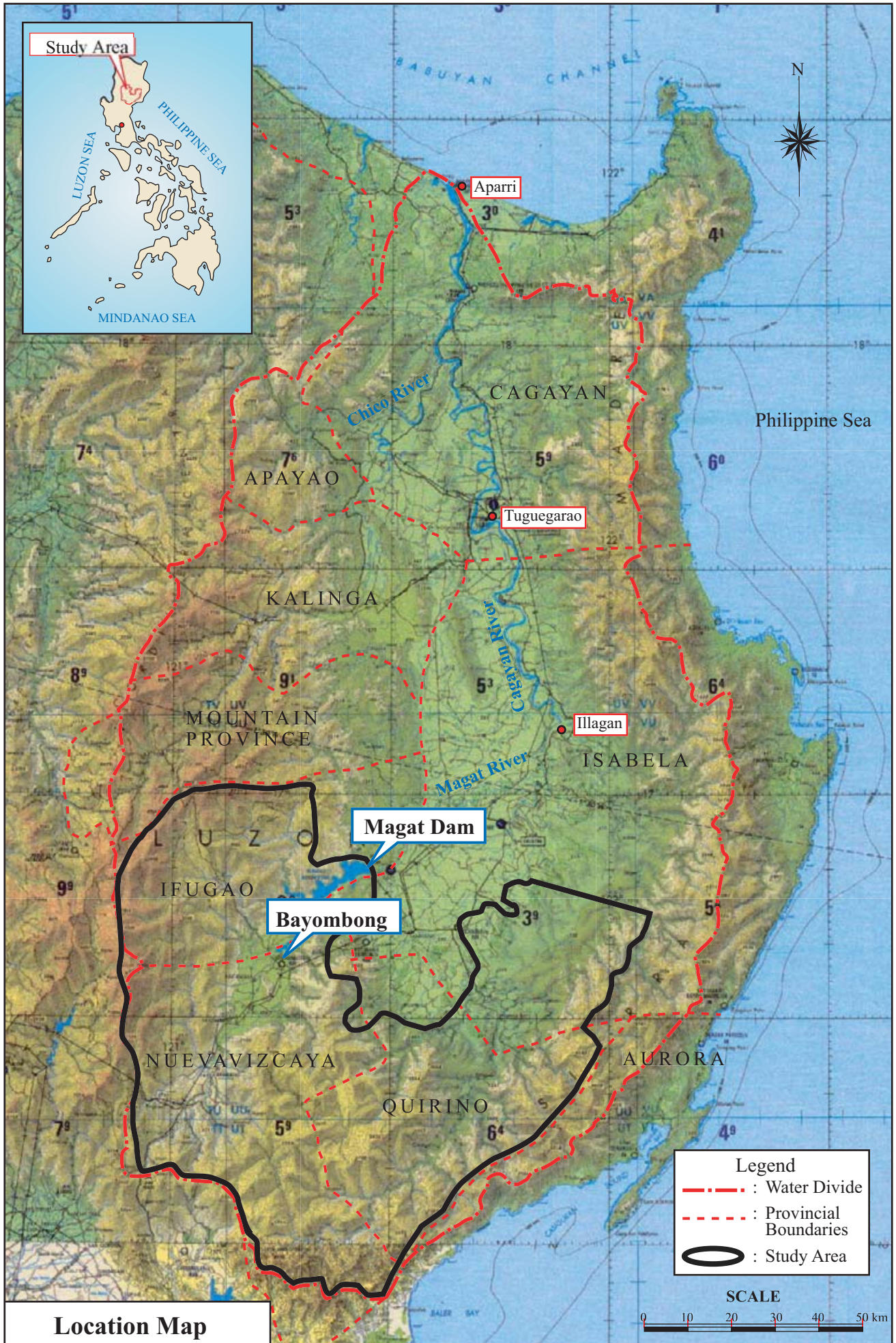
Very truly yours,



Seiji Koyanagi

Team Leader

The Master Plan Study for Watershed Management
in Upper Magat and Cagayan River Basin
Nippon Koei Co., LTD.



Field Photographs

First Field Work (April~October,2001) Formulation of Draft Master Plan 1



Forest Fire Occurrence in the Study Area
May, 2001: Casecnan, Nueva Vizcaya Province)



Orientation Meeting for Local Counterparts
presented by JICA Study Team
(April, 2001: Lamut, Ifugao Province)



Nursery funded by Department of Natural
Resources (DENR)
(2001: Santa Fe, Nueva Vizcaya)



Swidden land on steep slope
(April, 2001: Casecnan Nueva Vizcaya Province)

First Field Survey (April~October,2001) Formulation of Draft Master Plan 2



Workshop for Community Action Planning
conducted by People's Organization (PO)
(January, 2002: Ayangan Dapiz, Isabela Province)



Socialized Industrial Forest Management
Agreement (SIFMA) Area
(May,2001: Diffun, Quirino Province)



Presentation of Draft Master Plan for Stakeholders
(October, 2001: Bayombong, Nueva Vizcaya Province)



Landslip along the main road
(April, 2001: Nueva Ecija Province, nearby Study Area)

Second Field Work (January~March,2002) Preparation Work for Pilot Study



Field Survey for selection of Pilot Project Site
(February, 2002: Balligui, Quirino Province)



Technical advice from an expert of JICA Study Team on
Community Action Planning
(January, 2002: Banila, Nueva Vizcaya Province)



Field Survey for selection of Pilot Project Site
(February, 2002: Nunhabatan, Ifugao Province)



Weekly Meeting of JICA Study Team
with Counterpart personnel
(March,2002: Bayombong, Nueva Vizcaya Province)

Third Field Work (April~August,2002) Implementation of Pilot Study (1st year)



PO General Assembly Meeting
(August, 2002: Macate, Quirino Province)



Land Preparation for plantation conducted by PO
(August,2002: Nunhabatan, Ifugao Province)



Capacity Building for PO on the Pilot Project
(July,2002: Haliap, Quirino Province)



Computer training for DENR staff as a part of Institutional
Strengthening by JICA Study Team
(June,2002: Lamut, Ifugao Province)

Forth Field Work (January~March,2003) Interim Evaluation of Pilot Study



Under construction of Multi-purpose Building
(January,2003: Ayangan-Dapiz, Isabela Province)



Establishment of demonstration farm
(January,2003: Nunhabatan, Ifugao Province)



Confirmation of Components of Pilot Project
between PO and JICA Study Team
(February,2003: Balligui, Quirino Province)



Road Rehabilitation assisted by JICA Study Team and
Local Governmental Unit (LGU)
(February,2003: Banila, Nueva Vizcaya Province)

Fifth Field Work (April~August,2003) Implementation of Pilot Study (2nd year)



Gmelina tree planted during Pilot Project
(August, 2003: Nunhabatan, Ifugao Province)



Direct sowing of pasture & procurement of cattle for
breeding and fattening
(June, 2003: Nunhabatan, Ifugao Province)



Multi-purpose Building constructed by PO
(August, 2003: Banila, Nueva Vizcaya Province)



Community Resource Map through
Participatory Approach
(July, 2003: Macate, Quirino Province)

Forth Field Work (August,2003) Final Evaluation of Pilot Study



Workshop for Final Evaluation of Pilot Study Conducted by Stakeholders
(August,2003:Bayombong, Nueva Vizcaya Province)



Consultation Meeting fro establishment of Watershed Management Council
(May, 2003: Cabarroguis, Quirino Province)

Sixth Field Survey (December,2003) Presentation of Master Plan & Technology Transfer Seminar



Bayombong, Nueva Vizcaya Province



Quezon City, Metro Manila