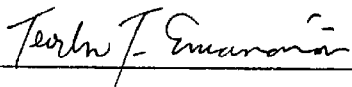


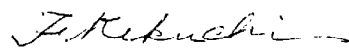
2. I/A (英文)

IMPLEMENTING ARRANGEMENT
ON
THE TECHNICAL COOPERATION
FOR
THE FEASIBILITY STUDY
OF
THE FLOOD CONTROL PROJECT FOR THE LOWER CAGAYAN RIVER
IN
THE REPUBLIC OF THE PHILIPPINES
AGREED UPON BETWEEN
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

MANILA, December 17, 1999



Mr. TEODORO T. ENCARNACION
Undersecretary
Department of Public Works and Highways
(DPWH)



Mr. FUMIO KIKUCHI
Leader of the Preparatory Study Team
Japan International Cooperation Agency
(JICA)

I INTRODUCTION

In response to the request of the Government of the Philippines (hereinafter referred to as "GOP"), the Government of Japan (hereinafter referred to as "GOJ") has decided to conduct the Feasibility Study on the Flood Control Project for the Lower Cagayan River (hereinafter referred to as "the Study").

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

On the part of GOP, the Department of Public Works and Highways (hereinafter referred to as "DPWH") shall act as the counterpart agency to the Japanese Study Team and also as a coordinating body in relation with other relevant governmental and non-governmental organizations concerned for the smooth implementation of the Study.

The present document sets forth the implementing arrangement between JICA and DPWH under the above agreement between the two governments.

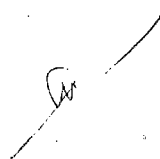
II OBJECTIVES OF THE STUDY

The objectives of the Study are:

- 1 to carry out the Feasibility Study of the Lower Cagayan River Flood Control to improve the socio-economic status of the area through mitigation of flood and reduction of flood damages, and
- 2 to perform technology transfer to Philippine counterpart personnel in the course of the Study.

III STUDY AREA

Study area covers the Cagayan River Basin located in the northern part of Luzon, Philippines.



IV SCOPE OF THE STUDY

In order to achieve the objectives mentioned above, the Study shall cover the following items:

- 1 Collection and review of existing data and information
 - (1) Natural condition (topography, meteorology, hydrology, etc.)
 - (2) Past floods and flood damages
 - (3) National and regional socio-economy
 - (4) Regional development plans and policies
 - (5) Relevant plans and studies
 - (6) Others
- 2 Supplemental survey and investigation
 - (1) Meteorological survey
 - (2) Hydrological and hydraulic survey
 - (3) Topographic survey
 - (4) River and river basin survey (River morphologic study)
 - (5) Flood and flood damage investigation
 - (6) Mapping and aerial photography
 - (7) Geological and soil survey
 - (8) Land use survey
 - (9) Environmental survey
- 3 Study and analysis
 - (1) Hydrological and hydraulic analysis
 - (2) Flood plain mapping
 - (3) Flood damage assessment and analysis
 - (4) River facilities planning
 - (5) Socio-economic study
 - (6) Land use planning
 - (7) Environmental study
- 4 Formulation of flood control plans for priority projects
 - (1) Preliminary design
 - (2) Construction plan
 - (3) Non-structural measures
 - (4) Operation and maintenance plan
 - (5) Cost estimate and financial plan
- 5 Project evaluation
 - (1) Financial evaluation
 - (2) Economic evaluation
 - (3) Social and environmental evaluation
- 6 Implementation program

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V WORK SCHEDULE

The Study will be carried out in accordance with the tentative work schedule shown in the ANNEX.

VI REPORTS

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

1 Inception Report

Thirty (30) copies at the commencement of the first work stage in the Philippines.
(This report contains the schedule and methodology of the Study.)

2 Progress Report

Thirty (30) copies at the end of the first work stage in the Philippines.
(This report will summarize the findings of field surveys and investigations as well as review results of the previous studies.)

3 Interim Report

Thirty (30) copies at the commencement of the second work stage in the Philippines.
(This report will contain the results of study and analysis.)

4 Draft Final Report

Thirty (30) copies at the commencement of the third work stage in the Philippines.
(This report will contain the whole results of the Study and will be the Final Report if there are no comments made on it by the Philippine side.)
DPWH shall submit comments on this report to JICA within one (1) month after the receipt of the Draft Final Report.

5 Final Report

Fifty (50) copies within two (2) months after the receipt of the comments on the Draft Final Report.

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VII UNDERTAKINGS OF GOP

GOP shall accord privileges, immunities and other assistance to the Japanese study team (hereinafter referred to as "the Team") in connection with performance of their duties for the Study 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 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 for the Study, except when such claims or liabilities arise from gross negligence or willful misconduct of the above-mentioned members.
- 2 DPWH shall, at its own expense, provide the Team with the following in cooperation with other relevant agencies concerned:
 - (1) available data and information related to the Study,
 - (2) counterpart personnel and support staff necessary for the Study,
 - (3) suitable office space with necessary equipment and furniture in Manila and in Region II,
 - (4) credentials or identification cards to the members of the Team.
- 3 To facilitate smooth conduct of the Study, DPWH shall make necessary arrangements with other governmental and non-governmental organizations concerned for the following:
 - (1) to secure the safety of the Team,
 - (2) to permit the members of the Team to enter, leave and sojourn in the Philippines for the duration of their assignment therein,
 - (3) to exempt the members of the Team from taxes, duties fees and other charges on equipment, machinery, vehicles and other materials brought into the Philippines for the conduct of the Study,
 - (4) to exempt the members of the 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 Team for their services in connection with the implementation of the Study,
 - (5) to provide necessary facilities to the 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 for the Team to take all data and documents (including

- maps and aerial photographs) related to the Study out of the Philippines to Japan by the Team, and
- (8) to provide medical services as needed. Their expenses will be chargeable to the members of the Team.

VIII UNDERTAKINGS OF GOJ

GOJ, through JICA, shall take the following measures for the implementation of the Study:

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

IX CONSULTATION

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

X IMPLEMENTING ARRANGEMENT AND COMMENCEMENT OF THE STUDY

This Implementing Arrangement and commencement of the Study are subject to the final agreement on the Note Verbale between relevant authorities on both sides.

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ANNEX

TENTATIVE SCHEDULE

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WORK IN PHILIPPINES																							
WORK IN JAPAN																							
REPORT																							

IC/R : Inception Report
 P/R : Progress Report
 IT/R : Interim Report
 DF/R : Draft Final Report
 F/R : Final Report

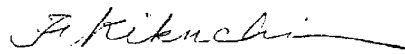
3. M/M (英文)

MINUTES OF MEETING
FOR
THE IMPLEMENTING ARRANGEMENT
ON
THE TECHNICAL COOPERATION
FOR
THE FEASIBILITY STUDY
OF
THE FLOOD CONTROL PROJECT FOR THE LOWER CAGAYAN RIVER
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MANILA, December 17, 1999



Mr. TEODORO T. ENCARNACION
Undersecretary
Department of Public Works and Highways
(DPWH)



Mr. FUMIO KIKUCHI
Leader of the Preparatory Study Team
Japan International Cooperation Agency
(JICA)

I. Introduction

In response to the request of the Government of the Philippines (hereinafter referred to as "GOP"), the Preparatory Study Team of the Japan International Cooperation Agency (hereinafter referred to as "JICA") visited the Philippines from December 8th to December 22nd, 1999.

The Team exchanged views and had a series of discussions on the Implementing Arrangement for the Feasibility Study of The Flood Control Project for the Lower Cagayan River (hereinafter referred to as "the Study") with the Department of Public Works and Highways (hereinafter referred to as "DPWH").

Apart from finalizing the Implementing Arrangement, both sides agreed or confirmed the following points for the smooth implementation of the Study. The list of attendants is attached in the Appendix.

II. Discussion and Confirmation

1. Target Year

Both sides agreed that the target year for the planning of the Study should be the year 2015.

2. Steering Committee

GOP agreed to establish an inter-agency Steering Committee under the chairmanship of Undersecretary for Planning and Technical Service of DPWH for the smooth implementation of the Study.

3. Undertakings of GOP

(1) Counterpart personnel

DPWH agreed to provide ten counterpart personnel with supporting staff to the Study Team.

(2) Office space

DPWH agreed to provide the office space in Manila and in Solana, Cagayan.

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(3) Office equipment

Both sides agreed that DPWH would provide office furniture and air-conditioners, and that JICA will provide a set of computer, a facsimile machine and a photocopy machine, etc.

(4) Vehicles

DPWH explained the difficulty in providing vehicles for the Study Team. JICA agreed to provide vehicles for the Study, and DPWH agreed to provide drivers for the vehicles.

4. Counterpart training

DPWH requested the Team to conduct technical counterpart training in Japan, in addition to on-the-job-training, for the purpose of the smooth transfer of technology during the Study.

The Team agreed to convey the request to JICA Headquarters for consideration.

5. Seminars

DPWH requested JICA to hold the seminars based on the results obtained from the Study, as a part of the technology transfer in the course of the Study.

JICA recognized the necessity and agreed to hold the seminars.

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ATTENDANCE LIST

Department of Public Works and Highways (DPWH)

Mr. Teodoro T. ENCARNACION	Undersecretary
Mr. Jesus P. CAMMAYO	Assistant Secretary for Planning, Design, Monitoring and Information
Ms. Linda M. TEMPLO	Director III, Planning Service (PS)
Mr. Nonito F. FANO	Project Director, Project Management Office - Major Flood Control Projects (PMO-MFCP)
Mr. Resito V. DAVID	Assistant Project Director, PMO-MFCP
Ms. Rebecca GARSUTA	Chief, Development Planning Division, PS
Mr. Napoleon S. FAMADICO	Engineer IV, Project Evaluation Division, PS
Mr. Ernie U. FANO	Engineer IV, PMO-MFCP
Mr. Carlos P. ZAMORA	Engineer III, Project Evaluation Division, PS
Mr. Kenji SUZUKI	JICA Expert, PS

JICA Preparatory Team

Mr. Fumio KIKUCHI	Team Leader, JICA
Mr. Masaru NAKAMOTO	Project Officer, JICA
Mr. Masazumi FUJIMURA	Flood Control Specialist, Ministry of Construction (MOC), Japan
Mr. Keiichi SAKAEBARA	Hydrologist/Hydraulic Engineer, Katahira & Engineers International (KEI)
Mr. Hiroshi IBARAKI	Survey Specialist/Geologist, Construction Project Consultants, Inc. (CPC)
Mr. Chikaichi TAKAHASHI	River Engineer, Nippon Giken Inc. (NGI)

JICA Philippine Office

Ms. Noriko BAMBA	Assistant Resident Representative
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4. 主要面談者リスト

主 要 面 談 者

公共事業・道路省 (DPWH: Department of Public Works and Highways)

Mr. Teodoro T. ENCARNACION	Undersecretary
Mr. Jesus P. CAMMAYO	CESO II, Assistant Secretary for Planning, Design, Monitoring and Information
Ms. Linda M. TEMPLO	Director III, Planning Service (PS)
Mr. Nonito F. FANO	Project Director, Project Management Office - Major Flood Control Project (PMO-MFCP)
Ms. Rebecca GARSUTA	Chief, Development Planning Division (DPD)
Mr. Resito V. DAVID	Assistant Project Director, PMO-MFCP
Mr. Ernie U. FANO	Engineer IV, PMO-MFCP
Mr. Napoleon S. FAMADICO	Engineer IV, Project Evaluation Division (PED), PS
Mr. Carlos P. ZAMORA	Engineer III, PED, PS
Mr. Victoriano G. SANCHEZ	Project Manager of Alitao-Alacapan Road Rehabilitation Project, Philippine-Japan Highway Loan (PJHL) Office
鈴木 研司	JICA専門家, Planning Service

DPWH, Region Office 02

Mr. Roberto B. BALGUA	Chief, Planning & Design Engineer V, Division of Planning & Design
Mr. Romeo D. BATANG	Engineer IV, Division of Planning & Design
Mr. Zoisimo L. BALISI	Engineer III, Division of Planning & Design
Ms. Marina D. TAGACAY	Engineer III, Division of Planning & Design
Mr. Julius Ofasah C. CONSIONA	Instrument Man, Division of Planning & Design
Ms. Rufina R. REODIQUE	Chief, Engineer V, Division of Materials Quality Control & Hydrology
Ms. Melinda S. ENCISO	Engineer II, Hydrology Section, Division of Materials Quality Control & Hydrology

科学技術省 (DOST: Department of Science and Technology)

気象天文庁 (PAGASA: Philippine Atmospheric, Geophysical and Astronomical Services Administration)

Ph. D. Leoncio A. AMADORE	Director
Mr. Ellaquim A, ADUG	OIC-Deputy Director, Operation & Services, Chief, Weather Branch (WB)
Mr. Maruro J. BATUTISA	Chief, Flood Forecasting and Warning System (FFWS)
Mr. Heraclio M. BORJA	OIC-Supervising Weather Facility Specialist, Flood Forecasting Branch (FFB)
Mr. Mario I. DUNGCA	Chief, Telemetry System Service Section (TSSS), FFB
Mr. Armando P. TARUC	Senior Weather Facility Specialist, FFB
Ms. Susan R. ESPINUEVA	Weather Facility Specialist II, FFB
三輪 準二	JICA専門家(洪水予警報)

環境・天然資源省 (DENR: Department of Environment and Natural Resources)

Mr. Romeo L. ALMEDA	Chief, Lands Geological Survey Division, Mines & Geosciences Bureau
安藤 和哉	JICA専門家, Foreign Assisted & Special Project Office (FASPO)/ Forest Management Bureau(FMB)
小島 義一	JICA専門家, Mines & Geosciences Bureau, The Capacity Building Project for the Environmental Management in Mining Expert for Mine Environmental Monitoring
近藤 康雄	JICA専門家, Mines & Geosciences Bureau, The Capacity Building Project for the Environmental Management in Mining Expert for Mine Environmental Monitoring

DENR, Region II

Mr. Atty. Gr A. AROMIN	Legal Division
Ms. Lucena F. UDANGA-MERCADO	Senior Science Research Specialist, OIC-Chief, Technology Transfer Division
Mr. Noel S. SORIANO	Science Research Specialist, Research Service

国家経済開発庁 (NEDA: National Economic Development Authority), Region II

Ms. Milagros A. RIMANDO	Regional Director
Ms. Sandra MABAZZA	Senior Economic Development Specialist
Mr. Llomar C. KRAEI	Economic Development Specialist II

農業省 (DA: Department of Agriculture)

今村 甲	JICA専門家, Bureau of Soils Management, Soils Research and Development Center Project (SRDC Phase II), Coordinator JICA-SRDC Technical Cooperation
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カガヤン州政府 (CPG: Cagayan Provincial Government)

Hon. Florencio L. VARGAS	Governor
Mr. David A. SANTIAGO	Principal, Planning & Development Office
Mr. Hose N. T. AQUINO	Provincial Engineer
Mr. Ruben BIUMSOY	Assistant Provincial Engineer

地域災害調整委員会 (RDCC: Regional Disaster Coordinating Council), Region II

Mr. Paterno I. JUNIO	Assistant Region II Civil Defense Officer
----------------------	---

Santo Nino郡Dungao村 (Dungao Barangay, Santo Nino Municipality)

Mr. Leos E. MALANA	Barangay Captain
--------------------	------------------

国家灌漑庁 (NIA: National Irrigation Administration)

竹内 兼蔵	JICA専門家 (灌漑)
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在フィリピン日本大使館

川原 俊太郎	一等書記官
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JICAフィリピン事務所

小野 英男	所長
番場 紀子	事務所々員