

図 3.2.1 既存資料及び報告書の評価検討台帳

III. OUTLINE OF PROJECT FEATURES

IRIGATION	SOIL TYPE	PRESENT LAND USE (a)
WATER MAIN	LAND CAPABILITY	(1) CROP LAND
LAND USE		(2) BUSHES/FOREST
LAND USE CONDITION		(3) RESIDENTIAL
CROPPING PATTERN (ha)	WET SEASON	(4) OTHERS
		(5) TOTAL
CROP YIELD (ton/ha)	DRY SEASON	DESIGN DISCHARGE (cu. m/sec)
		INTAKE METHOD
WATER REQUIREMENT (cu. m/ha)		
MIN. CANAL LENGTH (km)		
FLOOD CONTROL		
EXTENT OF SECTION AREA (ha)	PROBABILITY	
AGRICULTURAL LAND (ha)		
MUNICIPAL AREA (ha)		
MINI-HYDROPOWER		
INSTALLED CAPACITY (kW)		
DESIGN DISCHARGE (cu. m/sec)		
NET HEAD (m)		
ENERGY GENERATION (kW/yr)	PRIMARY	SECONDARY
PLANT FACTOR (%)		
WATERFISHED MANAGEMENT		
WATERFISHED AREA (ha)	NO. OF CHECK DAMS	
PROTECTION AREA (ha)		
RESTORATION AREA (ha)	TREE SPECIES	
WATER SUPPLY		
BENEFICIARIES (Nos)	DESIGN SUPPLY CAPACITY (cu. m/day)	
INLAND FISHERY		
FISH SPECIES	METHOD OF FISH CULTURE	
ANNUAL PRODUCTION (ton/year)		
IV. PROJECT COSTS (AS OF)	UNIT: pesos	
PROJECT COSTS (FINANCIAL BASIS)	UNIT PROJECT COST	0 & 14 COSTS
DAM CONSTRUCTION	per cu. m of embankment	
IRRIGATION WORKS	per ha of irrigated area	
WATERFISHED MANAGEMENT	per ha of protection area	
MINI-HYDROPOWER	per kW	
WATER SUPPLY	per cu. m of water supply	
INLAND FISHERY	per ton of fish production	
OTHERS		
CONSTRUCTION PERIOD (years)	REMARKS	
V. PROJECT BENEFITS AND IRR (AS OF)	UNIT: pesos	
PROJECT BENEFITS (FINANCIAL BASIS)	UNIT PROJECT BENEFITS	IRR (%)
IRRIGATION	per cu. m of embankment	
MINI-HYDROPOWER	per cu. m of embankment	
WATERFISHED MANAGEMENT	per ha of protection area	
WATER SUPPLY	per cu. m of embankment	
INLAND FISHERY	per cu. m of embankment	
FLOOD CONTROL	per cu. m of embankment	
OTHERS	per cu. m of embankment	
TOTAL		14%
		(at discount rate of 15%)

NO.	NAME OF PROJECT
	IMPLEMENTING AGENCY
1. PROJECT PROFILE	
LOCATION	REGION
LATITUDE	PROVINCE
LONGITUDE	MUNICIPALITY
SOCIO-ECONOMIC FEATURES OF MUNICIPALITY	
LAND AREA (km ²)	REVENUE CLASS
POPULATION	SECURITY CONDITION
POPULATION DENSITY	REMARKS
PRESENT STATUS	
LEVEL OF PROJECT PREPARATION:	1. RECONNAISSANCE 2. FS 1 3. DD 1
AVAILABILITY OF REPORTS:	1. NO REPORT 2. RECONNAISSANCE 3. FS 4. DD
SCALE OF MAP USED	DAM SITE RESERVOIR
PURPOSE OF PROJECT	
MAJOR:	1. IRRIGATION 2. MINI-HYDROPOWER 3. WATERFISHED MANAGEMENT 4. WATER SUPPLY
	5. INLAND FISHERY 6. FLOOD CONTROL 7. OTHERS
INCIDENTAL:	1. IRRIGATION 2. MINI-HYDROPOWER 3. WATERFISHED MANAGEMENT 4. WATER SUPPLY
	5. INLAND FISHERY 6. FLOOD CONTROL 7. OTHERS
II. OUTLINE OF DAM PLAN AND DESIGN	
NAME OF RIVER:	
WATER RESOURCES REGION:	
ANNUAL RUNOFF (mm)	RETURN PERIOD (years)
DESIGN RAINFALL (mm)	RETURN PERIOD (years)
DESIGN FLOOD (m ³ /sec)	EVAPORATION (mm/year)
SEDIMENT YIELD (cu. m/ha/year)	RAINFALL (mm/year)
CLIMATE TYPE	DAM AXIS I II III RESERVOIR
DAM TYPE	
CATCHMENT AREA (km ²)	FREEBOARD
TOTAL STORAGE CAPACITY (cu. m)	UPSTREAM SLOPE
EFFECTIVE STORAGE CAPACITY (cu. m)	DOWNSTREAM SLOPE
DEAD STORAGE CAPACITY (cu. m)	
RESERVOIR AREA (ha)	
DAM HEIGHT (m)	
DAM CREST LENGTH (m)	
CREST WIDTH (m)	
EMBANKMENT VOLUME (cu. m)	
FOUNDATION TREATMENT DESIGN	
DAM FOUNDATION	
TREATMENT METHOD	
SPILLWAY DESIGN	
TYPE	CREST LENGTH (m)
DESIGN CAPACITY (cu. m/sec)	
TYPE OF ENERGY DISSIPATOR	
OUTLET WORKS DESIGN	
TYPE	
DESIGN CAPACITY (cu. m/sec)	DURING CONSTRUCTION
	AFTER CONSTRUCTION

添付資料

添付資料-1

農業用小規模ため池整備事業 (SWIM) に関する
Implementing Arrangement (I/A)

IMPLEMENTING ARRANGEMENT ON THE TECHNICAL COOPERATION

BETWEEN

JAPAN INTERNATIONAL COOPERATION AGENCY

AND

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

FOR

MASTER PLAN

ON

SMALL WATER IMPOUNDING MANAGEMENT PROJECTS

IN

THE REPUBLIC OF THE PHILIPPINES

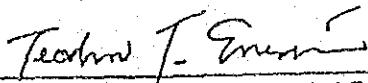
AGREED

BETWEEN

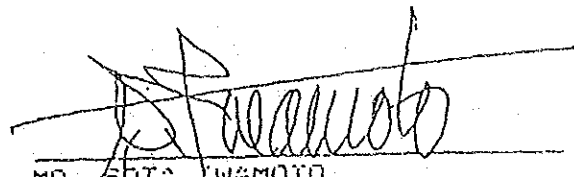
JAPAN INTERNATIONAL COOPERATION AGENCY

AND

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS



HON. TEODORO T. ENCARNACION
Undersecretary, DFWH
Chairman, SWIM



MR. SOTA YAMOTO
Leader of the Preliminary
Study Team,
Japan International Cooperation
Agency

I. INTRODUCTION

In response to the request of the Government of the Republic of the Philippines (hereinafter referred to as "GOP"), the Government of Japan (hereinafter referred to as "GOJ") has decided to conduct the Master Plan Study on Small Water Impounding Management Projects in the Republic of the Philippines (hereinafter referred to as "the Study"), and exchanged the Note 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 programmes of GOJ, will undertake the Study, in accordance with the relevant laws and regulations in force in Japan.

On the part of GOP, Department of Public Works and Highways (hereinafter referred to as "DPWH") shall act as a counterpart agency to the Japanese study team and also as a 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 DPWH under the above mentioned Notes Verbales exchanged between two governments.

II. OBJECTIVE OF THE STUDY

The objective of the study is to formulate a master plan for the small water impounding management projects, aiming at orderly utilization of the nation's water and land resources.

III. STUDY AREA

The Study area covers the entire Philippines.

IV. SCOPE OF THE STUDY

The Study will consist of following three phases:

Phase I

- (1) Inventory of small water impounding management projects.
- (2) Review of previous studies.
- (3) Post-evaluation of the completed projects.

Phase II

- (1) Categorization of projects.
- (2) Preparation of guidelines for project implementation and management.

Phase III

(1) Formulation of the Master Plan.

1. Phase I

(1) An inventory of small water impounding management projects will be compiled by collecting existing data and information.

(2) The previous studies will be reviewed on the following items:

- a. Topography
- b. Meteorology and hydrology
- c. Geology
- d. Soil
- e. Agriculture
- f. Irrigation and drainage
- g. Flood control
- h. Electric power and water supply
- i. Aquaculture
- j. Watershed management and environmental aspects
- k. Design of major structure
- l. Construction materials
- m. Costs and benefits
- n. Impact/effect
- o. Others

(2) Post-evaluation of the completed projects will be made on the items listed above and the following aspects.

- a. Current status
- b. Prospect of operation and maintenance
- c. Benefits accrued from the projects

2. Phase II

(1) Based on the results of the Phase I Study, factors and elements grouping the projects will be identified and the projects will be grouped in accordance with these factors and elements.

(2) The following preliminary guidelines for project implementation and management will be prepared on the basis of the previous grouping.

- a. Design guidelines of major structures
- b. Screening (or qualification) guidelines
- c. Operation and maintenance guidelines

3. Phase III

(2) Based on the results of previous studies, the Master Plan of the projects will be formulated including:

- a. Recommendation of development sequence
- b. Preliminary estimate of the project cost and benefits

V. REPORTS

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

1. Plan of Operation
Thirty (30) copies at the commencement of the Phase I Study
2. Inception Report
Thirty (30) copies at the middle of the Phase I Study
3. Progress Report
Thirty (30) copies at the end of the Phase I Study
4. Interim Report
Thirty (30) copies at the end of the Phase II Study
5. Draft Final Report
Thirty (30) copies at the end of the Phase III Study
GOP shall provide JICA with its comments within one (1) month after the receipt of the Draft Final Report.
6. Final Report
Fifty (50) copies within two (2) months after the receipt of the Philippines Government's comments on the Draft Final Report.

VI. STUDY SCHEDULE

The tentative work schedule is shown in the Appendix.

VII. UNDERTAKING OF GOP

In accordance with the Notes Verbales exchanged between GOJ and GOP, GOP shall accord privileges, immunities and other benefits to the Japanese study team and, through the authorities concerned, take necessary measures to facilitate 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 respects of claims or 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. DPWH shall, at its own expense, provide the Japanese study team with the following, if necessary, the cooperation with other agencies concerned:
 - (1) Available data and information related to the Study;
 - (2) Counterpart personnel;
 - (3) Suitable office space with necessary equipment in Metro Manila;
 - (4) Credentials or identification cards to the member of the Japanese study team;

3. DPWH 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 of 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 emolument or allowance 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) related to the Study out of the Philippines to Japan by the study team;
 - (8) To provide medical services as needed and its expenses will be chargeable against the members of the Japanese study team.

VIII. UNDERTAKING OF GOJ

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

1. to dispatch, at its own expense, study team to the Philippines;
2. to pursue technology transfer to the Philippine counterpart;
3. to provide necessary equipment for the implementation of the Study, which will remain the property of JICA 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.

APPENDIX Tentative Schedule

Description	Month																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE I FIELD JAPAN																				
PHASE II FIELD JAPAN																				
PHASE III FIELD JAPAN																				
Report																				

P/O : Plan of Operation Int : Interim Report
 Inc : Inception Report D/f : Draft Final Report
 Prog: PROGRESS Report F/R : Final Report

 : Field Work
 : Home Office Work

添付資料-2 プラン・オブ・オペレーションに関する会議議事録
(1988年8月29日)

MINUTES OF MEETING
ON
THE PLAN OF OPERATION
FOR
THE JICA MASTER PLAN STUDY ON THE SWIM PROJECTS

DATE : August 29, 1988

PLACE : Meeting Room at National Irrigation Administration

ATTENDANTS:

Technical Working Group

- | | |
|-------------------------|----------------|
| 1. Tomas L. Buen | PMO-SWIM, DPWH |
| 2. Raul E. Tubianosa | PMO-SWIM, DPWH |
| 3. Avelino S. Rivera | NIA |
| 4. I. R. Digal | NIA |
| 5. Clemente T. Alanano | NIA |
| 6. Melchia O. Baltazar | NWRB |
| 7. S. Abuan | FMB |
| 8. Leonora SP. Dalusong | NEA |
| 9. Lucio B. Casera | BSWM |
| 10. Rommel R. Juat | PMO-SWIM, DA |

JICA Colombo Plan Expert

- | | |
|---------------------|------|
| 1. Toshiki Kawakami | DPWH |
| 2. Yukinori Ouchi | NIA |

JICA

- | | |
|--------------------|-------------|
| 1. Motofumi Kohara | JICA, Tokyo |
|--------------------|-------------|

JICA Study Team

- | | |
|------------------------|------------------------------------|
| 1. Tadashi Sakamoto | Team Leader |
| 2. Motoyoshi Kawashima | Co-Leader/Water Impounding Planner |
| 3. Hironichi Sekine | Irrigation and Drainage Engineer |
| 4. Kenichiro Kondo | Hydrologist |

The meeting on the Plan of Operation for the JICA Master Plan Study on the SWIM Projects (the Study) was held among the Technical Working Group (TWG), JICA and JICA Study Team (the Team). The Team explained the work plan and work schedule for the Study. The Plan of Operation is generally accepted by the TWG. All the parties discussed and agreed upon the following items:

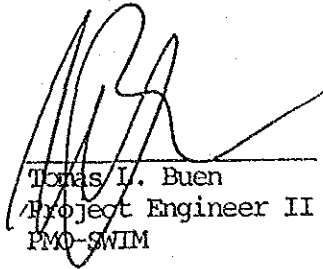
- (1) The SWIM Steering Committee (the Committee) consists of four departments such as the DPWH, DENR, DA and DBM. The Committee is chaired by the DPWH and Undersecretary Romulo M. del Rosario is Chairman of the Committee. The Committee will timely steer the SWIM Projects on the operational policy which occurs in the course of the Study.
- (2) The TWG is composed of eight agencies such as the PMO-SWIM, NIA and NWRB under the DPWH, FMB and NEA under the DENR, and BFAR, BSWM and PMO-SWIM under the DA. The TWG will act as the technically executing organization for the SWIM Projects. The regular meeting between the TWG and the Team will be held once a month.
- (3) Mr. Fernando S. Nabong, manager of PMO-SWIM is the Project Manager of the Study and the chief counterpart for the Team. All the official letters to be submitted by the Team will be addressed to him.
- (4) The final list of the candidate projects for the Study will be finalized by the PMO-SWIM and submitted to the Team by September 9, 1988.
- (5) The office for the Team will be provided by September 5, 1988 with necessary office equipment and facilities such as desks, chairs, cabinets, telephone and air-conditioner. The Team will use the office from September 1, 1988.

- (6) The counterpart for the Team will be dispatched as follows:

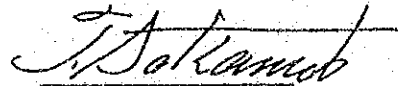
<u>Position</u>	<u>Candidate or Agency</u>
(a) Chief counterpart	Fernando S. Nabong
(b) Water Impounding Planner	Raul E. Tubianosa
(c) Structure Design Engineer	DPWH
(d) Geologist/Soil Mech. Engineer	BSWM
(e) Hydrologist	NIA
(f) Irrigation and Drainage Engineer	NIA
(g) Agronomist/Pedologist	BSWM
(h) Agro-economist/Economist	NIA
(i) Watershed Management Expert	FMB
(j) Hydropower Engineer	NEA
(k) Water Supply Expert	NWRB
(l) Inland Fisheries Expert	BFAR

The final member list for the above will be submitted to the Team from the PMO-SWIM by September 5, 1988. The counterparts such as chief counterpart, water impounding planner, hydrologist, and irrigation and drainage engineer will be assigned from September 1, 1988 and the other counterparts will be from September 5, 1988. They will attend the office for the Study until December 23, 1988. In addition to the permanent counterparts mentioned above, the part-time counterparts of water impounding planner will be assigned from each agency of the TWG. They will be selected from the member of the TWG.

August 29, 1988

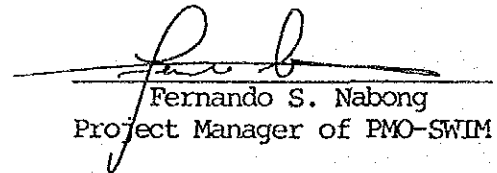


Tomas I. Buen
Project Engineer II
PMO-SWIM



Tadashi Sakamoto
Team Leader
JICA Study Team

Certified by:



Fernando S. Nabong
Project Manager of PMO-SWIM

添付資料-3

インセプション・レポートに関する会議議事録
(1988年10月24日)

MINUTES OF MEETING
ON
THE INCEPTION REPORT
FOR
THE JICA MASTER PLAN STUDY ON THE SWIM PROJECTS

1. DATE : October 24, 1988
2:00p.m. to 4:30 p.m.
2. PLACE : Mayon Room at Century Park Sheraton, Manila
3. ATTENDANTS : See Attached Sheet
4. SUMMARY OF DISCUSSION

The meeting was held, in the presence of Mr. Romulo M. del Rosario, Undersecretary of DPWH and the Chairman of the SWIM Committee, between the SWIM-TWG and the JICA Study Team to discuss the draft Inception Report which was distributed to all the attendants on October 20, 1988. The meeting was presided by the Chairman of the Technical Working Group (TWG), Mr. Fernando S. Nabong. After all the attendants were introduced, Mr. Tadashi Sakamoto, the Leader of JICA Study Team explained the draft Inception Report to the attendants. The discussions were then made among the attendants and the both sides confirmed the following through a series of discussions:

- (1) The draft Inception Report was basically accepted by the SWIM-TWG. The Report will be finalized with minor modifications, incorporating with the comments by the SWIM-TWG members, and submitted to PIU SWIM by the end of October, 1988.
- (2) All the projects identified and/or studied by each agency concerned are listed in the Inception Report as the candidate projects for the master plan study. The number of the listed projects is 501 as indicated in ATTACHMENT-1. The list was accepted by the SWIM-TWG.
- (3) A total of 49 projects has been taken up under the SWIM program so far, of which 32 projects have already been constructed and 17 projects are still under construction. The post-evaluation study will be made only for the already constructed projects. The proposed list of the candidate projects for post-evaluation study was also accepted by the SWIM-TWG.

The number of the candidate projects for post-evaluation study is 10 in total as shown in ATTACHMENT-2.

- (4) The projects supported with the necessary data and reports totals only 239 which correspond to about 48% of the total number of projects under the Study. The JICA Study Team requested all the members of the SWIM-TWG that all the study reports and other pertinent documents relative to the listed projects be submitted through PMO-SWIM of DPWH to the Team by November 15, 1988.
- (5) JICA Study Team pointed out that 283 projects were listed in the category of "before F/S" and only 29 projects (10%) were supported with the data necessary for the master plan study, and asked all the members of the SWIM-TWG how the necessary data and information be collected for the remaining projects.

NIA who proposed a majority of such projects (198 projects or 78% of "before F/S" projects without data), said that the SWIM projects of NIA include development of irrigation facilities as well as dams and are rather large in size compared to those of other agencies. NIA also said that the proposed SWIM projects are identified by each regional office of NIA on the basis of the past experiences on construction of large dams and therefore these projects should be technically sound.

NIA emphasized the importance of SWIM projects for NIA that the proposed SWIM projects would directly support the existing communal irrigation systems which had been facing to unstable supply of irrigation water. NIA also expressed their difficulties of providing the data by November 15, 1988, due to current shortage of budget and also very limited time allowance for additional survey and investigation.

In the meeting, NIA requested Mr. Romulo M. del Rosario, Undersecretary of DPWH and the Chairman of the SWIM Committee to extend the financial support for fulfilling the requirement of JICA master plan study.

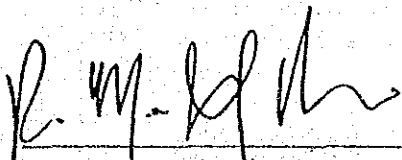
Mr. Romulo M. del Rosario requested the JICA Study Team to undertake the technical assistance regarding the required additional survey and investigation for all of the "before F/S Projects without data" which will be needed for formulation of master plan. The JICA Study Team said that the request would be conveyed to JICA office for further consideration.



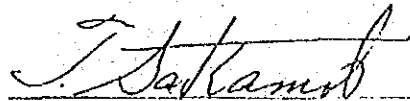
NIA also requested JICA Study Team that the deadline of data submission be postponed. The JICA Study Team agreed to wait the submission of data for "before F/S" projects until June 1989 when Phase-II Study be commenced.

- (6) PMO-SWIM pointed out the importance of management aspects of the SWIM Projects and requested the JICA Study Team that an Institutional Expert be included in the Study Team from Phase-II Study

October 26, 1988



Romulo M. del Rosario
Undersecretary, DPWH
and
Chairman of SWIM Committee



Tadashi SAKAMOTO
Leader
JICA Study Team

List of Attendants

SWIM Steering Committee

1. Romulo M. del Rosario

Undersecretary, DPWH,
Chairman of SWIM Steering
Committee

Technical Working Group (TWG)

1. Fernando S. Nabong

PMO-SWIM/DPWH, Chairman of
TWG

2. Tomas L. Buen

PMO-SWIM/DPWH

3. Raul E. Tubiano

PMO-SWIM/DPWH

4. Sofia Santiago

Bureau of Design/DPWH

5. Pedro Razon

Bureau of

6. Jose Guanzon

Construction/DPWH

7. Luis M. Sosa

Planning Services/DPWH

8. Melchor Baltazar

Executive Director/NWRB

9. Francis Hilarie

NWRB

10. Avelino Rivera

NWRB

11. Isidro Digal

Project Development

12. Clemente Alanano

Department(PDD)/NIA

13. Conrado Martin

PDD/NIA

14. Lucio Casera

PDD/NIA

15. Sergio Abuan

Soil Conservation

16. Valeriano Infante

Division/BSWM

17. Demetrio Gracia

Soil Conservation

18. Rommel Juat

Division/BSWM

Watershed Management
Division/FMB

NEA

BFAR

PMO-SWIM/DA

JICA Advisory Committee

1. Katsuro Shioda

Leader of JICA Advisory
Committee

2. Hiroyuki Kutsuna

JICA, Head Office

JICA Colombo Plan Expert

1. Toshiki Kawakami

DPWH

2. Yasuhiko Mishima

NIA

JICA Study Team

1. Tadashi Sakamoto

Team Leader

2. Motoyoshi Kawashima

Co-Leader/Water Impounding
Plan

3. Naoki Ariga

Agro-economy/Project
Evaluation

4. Hirohisa Isogai

Geology/Soil Mechanics

5. Akira Honda

Structure Design

6. Hiromichi Sekine

Irrigation and Drainage

7. Ken-ichiro Kondo

Hydrology/Meteorology

8. Takashi Kimijima

Agriculture/Soil

9. Seiji Yakushiji

Watershed Management

SWIM PROJECTS FOR JICA MASTER PLAN STUDY
(TOTAL NUMBER OF PROJECTS: 550)

PROJECTS BEFORE CONSTRUCTION (NUMBER OF PROJECTS: 501)		PROJECTS UNDER CONSTRUCTION (NUMBER OF PROJECTS: 17)		PROJECTS CONSTRUCTED ALREADY (NUMBER OF PROJECTS: 32)	
PMO-SWIM	: 33 (17)	PMO-SWIM	: 2 (-)	PMO-SWIM	: 10 (4)
NIA	: 213 (13)	NIA	: 2 (-)	NIA	: 1 (1)
FMB	: 56 (19)	FMB	: 5 (-)	FMB	: 3 (3)
NEA	: 47 (43)	NEA	: 1 (-)	NEA	: 2 (2)
BSWM	: 152 (147)	BSWM	: 4 (-)	BSWM	: 6 (6)
FSDC	: - (-)	FSDC	: 3 (-)	FSDC	: 10 (1)
TOTAL	: 501 (239)	TOTAL	: 17 (-)	TOTAL	: 32 (17)

PROJECTS BEFORE F/S (NUMBER OF PROJECTS: 283)		PROJECTS F/S COMPLETED (NUMBER OF PROJECTS: 27)		PROJECTS D/D COMPLETED (NUMBER OF PROJECTS: 191)	
PMO-SWIM	: 15 (-)	PMO-SWIM	: 5 (5)	PMO-SWIM	: 13 (12)
NIA	: 198 (-)	NIA	: - (-)	NIA	: 15 (13)
FMB	: 56 (19)	FMB	: - (-)	FMB	: - (-)
NEA	: 14 (10)	NEA	: 22 (22)	NEA	: 11 (11)
BSWM	: - (-)	BSWM	: - (-)	BSWM	: 152 (147)
FSDC	: - (-)	FSDC	: - (-)	FSDC	: - (-)
TOTAL	: 283 (29)	TOTAL	: 27 (27)	TOTAL	: 191 (183)

The figures parenthesized means number of the projects for which relevant reports are presently available.

LIST OF CANDIDATE PROJECTS FOR POST-EVALUATION STUDY

No. Agency	Project Name	Region	Province	Municipality	Present Status	Year of Construction	Purpose	Construction Cost (Peso 10 ⁶)	Dam Type	Dam Height (meter)	Reservoir Capacity (YCM)	Data #2
1 NIA	Iliban SWIP	VII	Bohol	Tubigon	A	1982	Irrigation (150ha)	5.000	Earthfill	22.0	0.85	D/D
2 BSWH	Barapidap SWIP	II	Nueva Vizcaya	Aritao	A	1983	Irrigation (70ha) Fishery	1.804	Earthfill	12.9		F/S, D/D
3 BSWH	Kalindag SWIP	VIII	Southern Leyte	Sogod	A	1984	Irrigation	2.238		9.0		F/S, D/D
4 PWB	Pasig Tisov Watershed Rehab. Project	III	Pampanga	Porac	A	1984	Watershed Management	1.405				D/D
5 NEA	Mantayupan Falls SWIP	VII	Cebu	Barili	A	1985	Mini-hydroover	6.219	Concrete			F/S, D/D
6 PSDC	Bacnotan SWIP	I	La Union	Bacnotan	A	1985	Irrigation	1.560	Earthfill			F/S
7 DPYE	Porac Dam	III	Pampanga	Porac	B	1984	Irrigation	11.828	Earthfill	18.0	1.005	F/S, D/D
8 DPYH	Kirong Dam & Reservoir Project	III	Bataan	Hermosa	A	1985		1.181	Concrete			
9 DPYH	San Ramon Dam & Reservoir Project	III	Pampanga	Floridablanca	A	1987	Irrigation	2.558	Earthfill	13.7		F/S, C/D
10 DPYH	Cajangahan SWIP Phase I	VII	Bohol	Ubay	A	1988	Irrigation	3.163	Earthfill	12.5	0.1685	F/S

Note: #1: Present Status;

#2: Available Data;

F/S: Feasibility Study Report

D/D: Detailed Design Engineering Report

C/D: Construction Drawings

A: Constructed and functioning

B: Constructed but damaged

C: Under-construction

添付資料-4

作業進捗報告書に関する会議議事録
(1989年3月8日)

MINUTES OF MEETING
ON
THE PROGRESS REPORT
FOR
JICA MASTER PLAN STUDY ON THE SWIM PROJECTS

1. Date : March 8, 1989
1:00 P.M. - 2:45 P.M.
2. Place : Mayon Room at Century Park Sheraton,
Manila
3. Attendants : See Attached Sheet

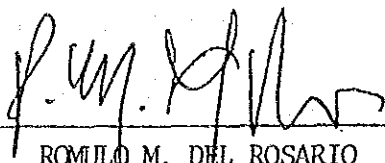
4. SUMMARY OF DISCUSSIONS

The meeting was presided by Mr. Romulo M. del Rosario, Under-secretary of DPWH and Chairman of the SWIM Committee. At the request of the Chairman, Mr. Tadashi Sakamoto, the Leader of the JICA Study Team explained the outline of the "Progress Report" to the attendants. The Chairman asked each agency to make questions or comments on the Report and various discussions were made between the SWIM-TWG members and the JICA Study Team. Both sides confirmed the following through the discussions:

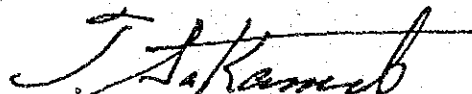
- (1) The Progress Report was fully accepted by the SWIM-TWG without any serious comments.
- (2) For priority ranking of the SWIM projects, the economic/financial viability would be of importance, however, it should not be over-emphasized and other factors governing the priority such as legal/social/technical/environmental aspects be properly taken into account.
- (3) The Chairman, in response to the strong request from all the members of SWIM-TWG, asked the JICA Study Team to undertake the technical assistance regarding the required additional survey and investigation for all of 170 projects which are not currently supported with adequate data. The request would be conveyed to JICA Office.

- (4) SWIM-TWG agreed to the work schedule of Phase II and Phase III as shown in Attachment - 1.

March 10, 1989



ROMULO M. DEL ROSARIO
Undersecretary, DPWH
and
Chairman of SWIM Committee



TADASHI SAKAMOTO
Leader
JICA Study Team

WORK SCHEDULE FOR SWIM PROJECTS

Description	1988					1989												1990					
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
PHASE I RP	█							█															
JAPAN	□					█																	
PHASE II RP											█												
JAPAN																							
PHASE III RP													█										
JAPAN																							
REPORT		↑ P/O		↑ IC/R				↑ P/R				↑ P/O		↑ IT/R									

Work Schedule for the fiscal year of 1989/90 is tentative.

P/O: Plan of Operation IC/R: Inception Report P/R: Progress Report IN/R: Interim Report DF/R: Draft Final Report F/R: Final Report

LIST OF ATTENDANTSSWIM Steering Committee

- | | |
|---------------------------|--|
| 1. Romulo M. Idel Rosario | - Undersecretary, DPMH
Chairman of SWIM Committee |
|---------------------------|--|

Technical Working Group (TWG)

- | | |
|-----------------------------------|---|
| 1. Fernando S. Nabong | - PMO-SWIM/DPWH, Chairman of TWG |
| 2. Tomas L. Buen | - PMO-SWIM/DPWH |
| 3. Raul E. Tubianosa | - PMO-SWIM/DPWH |
| 4. Jose Guanzon | - Planning Service/DPWH |
| 5. Isabel Cruz (for Mr. Kawakami) | - Planning Service/DPWH |
| 6. Luis M. Sosa | - Executive Director/NWRB |
| 7. Melchor Baltazar | - Water Resource Staff Office/NWRB |
| 8. Francis Hilarie | - Water Resource Staff Office/NWRB |
| 9. Avelino Rivera | - Project Development Dept./NIA |
| 10. Clemente Alanano | - Project Development Dept./NIA |
| 11. Rodolfo Lucas | - Water Resources Mgt. Div. /BSWM |
| 12. Cesar Magadia | - Water Resources Mgt. Div. /BSWM |
| 13. Demetrio Gracia | - Aquaculture Division /BFAR |
| 14. Valeriano Infante | - Alternative Energy Development Office/NEA |
| 15. Hendrick Manegdeg | - Alternative Energy Development Office/NEA |
| 16. Sergio Abuan | - Watershed Management Division/FMB |

JICA


- | | |
|----------------|---------------|
| 1. Akira Kayao | - JICA, Japan |
|----------------|---------------|

JICA Colombo Plan Expert

- | | |
|---------------------|-------|
| 1. Yasuhiko Mishima | - NIA |
|---------------------|-------|

JICA Study Team

- | | |
|------------------------|--------------------------------------|
| 1. Tadashi Sakamoto | - Team Leader |
| 2. Motoyoshi Kawashima | - Co-Leader/Water Impounding Planner |
| 3. Naoki Ariga | - Agro-Economist/Project Evaluator |
| 4. Hiromichi Sekine | - Irrigation and Drainage Engineer |

 - AT - 21



添付資料-5

プラン・オブ・オペレーションに関する会議議事録
(1989年7月6日)

MINUTES OF MEETING
ON
THE PLAN OF OPERATION
FOR
JICA MASTER PLAN STUDY ON THE SWIM PROJECTS

1. Date : July 6, 1989
1:00p.m. - 3:00p.m.
2. Place : Grand Ballroom, Century
Park Sheraton, Manila
3. Attendants : See Attached List
4. Summary of Discussions :

The meeting was presided by Mr. Romulo M. del Rosario, Undersecretary of DPWH and Chairman of the SWIM Committee. The Chairman briefed the body about the activities conducted in the Phase-I of the Study. After his explanation, the Chairman requested Mr. Edmundo V. Mir, Undersecretary of DPWH, to preside over the meeting as the chairman will attend an urgent engagement. The Chairman requested Mr. Tadashi SAKAMOTO, Leader of the JICA Study Team, to present the contents of the "Plan of Operation". After the presentation of Mr. SAKAMOTO, Undersecretary Mr. Mir requested for comments from the body. The following were discussed:

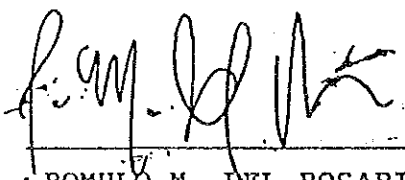
- (1) The "Plan of Operation" was basically accepted by the SWIM-TWG members. The JICA Study Team would proceed with the master plan study (Phase-II and Phase-III) in line with the agreed "Plan of Operation".
- (2) For priority ranking of the projects and preparation of the planning criteria, an environmental aspect of

the project would be examined in addition to the other aspects mentioned in the "Plan of Operation", but the depth of the study would be limited to the extent of availability of the existing data on this subject (refer to page 8 of the "Plan of Operation").

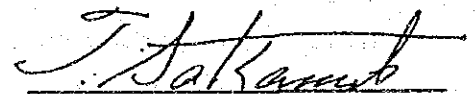
- (3) In preparation of the guidelines for project implementation (refer to page 14 of the "Plan of Operation"), the guideline of future monitoring system for project implementation would additionally be studied on a preliminary basis and the guideline of the standard system be recommended in the master plan.

At the end of the Meeting, Mr. Sota IWAMOTO, the Chairman of the Advisory Committee on the JICA Master Plan Study expressed his sincere thanks to the attendants for discussions as well as his keen interest on this Study and asked the attendants to extend their good cooperation to the Study Team.

July 7, 1989



ROMULO M. DEL ROSARIO
Undersecretary of DPWH and
Chairman of SWIM Committee



TADASHI SAKAMOTO
Leader
JICA Study Team

LIST OF ATTENDANTSSWIM Steering Committee

- | | | |
|----|-----------------------|--|
| 1. | Romulo M. del Rosario | Undersecretary, DPWH
Chairman of SWIM Committee |
| 2. | Edmundo V. Mir | Undersecretary, DPWH |

Technical Working Group (SWIM-TWG)

- | | | |
|-----|--------------------|---|
| 1. | Antonio A. Alpasan | PMO-MFC/SWIM, DPWH,
Chairman of SWIM-TWG |
| 2. | Rogelio Flores | PMO-MFC/SWIM, DPWH |
| 3. | Tomas Buen | PMO-MFC/SWIM, DPWH |
| 4. | Raul Tubianosa | PMO-MFC/SWIM, DPWH |
| 5. | Jose Guanzon | Planning Services, DPWH |
| 6. | Pedro Razon | Bureau of Construction, DPWH |
| 7. | Luis Sosa | Executive Director, NWRB |
| 8. | Francis Hilarie | Water Resource Staff Office, NWRB |
| 9. | Valeriano Infante | Alternative Energy Development
Office, NEA |
| 10. | Noel Hernandez | Alternative Energy Development
Office, NEA |
| 11. | Sergio Abuan | Watershed Management Division, FMB |
| 12. | Romeo Ocampo | Watershed Management Division, FMB |
| 13. | Rommel Juat | Project Manager, PMO-SWIM, DA |
| 14. | Demetrio Gracia | Aquaculture Division, BFAR |
| 15. | Rodolfo Lucas | Water Resources Management
Division, BSWM |
| 16. | Cesar Magadia | Water Resources Management
Division, BSWM |
| 17. | Avelino Rivera | Project Development Department, NIA |
| 18. | Isidro Digal | Project Development Department, NIA |
| 19. | Clemente Alanano | Project Development Department, NIA |

JICA Advisory Group

- | | | |
|----|---------------|-------------|
| 1. | Sota Iwamoto | Chairman |
| 2. | Takahito Hino | JICA, Japan |

JICA Colombo Plan Expert

- | | | |
|----|------------------|------|
| 1. | Toshiki Kawakami | DPWH |
| 2. | Sumio Oishi | NIA |

JICA Study Team

1. Tadashi Sakamoto
2. Motoyoshi Kawashima
3. Naoki Ariga
4. Hirohisa Isogai
5. Hiromichi Sekine
6. Kenichiro Kondo
7. Takashi Kimijima

- Leader
- Co-Leader/Water Impounding Planner
- Agro-Economist/Project Evaluator
- Structural Design Engineer
- Irrigation and Drainage Engineer
- Hydrologist
- Agriculturist/Soil Expert

Handwritten signatures and initials in black ink, including a large signature on the right and several initials on the left.

添付資料-6 中間報告書に関する会議議事録
(1989年9月20日)

**MINUTES OF MEETING
ON
THE INTERIM REPORT
FOR
JICA MASTER PLAN STUDY ON THE SWIM PROJECTS**

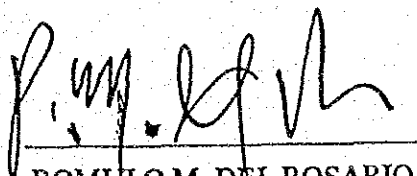
1. Date : September 20, 1989
1:00p.m. - 2:30p.m.
2. Place : Grand Ballroom,
Century Park Sheraton Hotel
3. Attendants : See Attached List
4. Summary of Discussion :

The meeting was presided by Mr. Romulo M. del Rosario, Undersecretary of DPWH and Chairman of the SWIM Committee. The Chairman explained to the body the purpose of the meeting. After the explanation, the Chairman requested Mr. Tadashi SAKAMOTO, Leader of the JICA Study Team, to present the contents of the "Interim Report". After the presentation of Mr. SAKAMOTO, the Chairman requested for comments from the body.

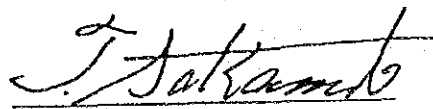
The following were discussed and confirmed:

- (1) The "Interim Report" was accepted by the SWIM-TWG members. The JICA Study Team will proceed with the Phase-III of the Study in line with the agreed work plan mentioned in the "Interim Report".
- (2) The master plan study shall include recommendation(s) for the conduct of surveys, investigations and studies of 170 projects, which are not supported with the studies.

September 21, 1989



ROMULO M. DEL ROSARIO
Undersecretary of DPWH
(Chairman of SWIM Committee)



TADASHI SAKAMOTO
Leader
JICA Study Team

ATTACHMENT

LIST OF ATTENDANTS

SWIM Steering Committee

1. Romulo M. del Rosario - Undersecretary, DPWH
Chairman of SWIM Committee

SWIM Technical Working Group(SWIM-TWG)

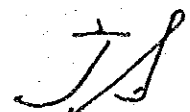
1. Antonio A. Alpasan - PMO-MFC/SWIM, DPWH
2. Tomas L. Buen - PMO-MFC/SWIM, DPWH
3. Jose C. Guanzon - Planning Services, DPWH
4. Pedro Razon - BOC, DPWH
5. Raul E. Tubianosa - PMO-MFC/SWIM, DPWH
6. Francis Hilarie - Water Resources Staff Office, NWRB
7. Sergio Abuan - Watershed Management Division, FMB
8. Rommel R. Juat - Project Manager, PMO-DA
9. Demetrio Gracia - Aquaculture Division, BFAR
10. Rudolfo Lucas - Water Resources Management
Division, BSWM
11. Avelino Rivera - Project Development Dept., NIA
12. Isidro Digal - Project Development Dept., NIA
13. Clemente Alanano - Project Development Dept., NIA
14. Melchor O. Baltazar - NWRB
15. Conrado D. Escobar - PMO-MFC/SWIM, DPWH
16. Lourdes Santiago - PMO-MFC/SWIM, DPWH

JICA Colombo Plan Expert

1. Toshiki Kawakami - DPWH
2. Sumio Oishi - NIA

JICA Study Team

1. Tadashi Sakamoto - Leader
2. Motoyoshi Kawashima - Co-leader/Water Impounding Planner
3. Naoki Ariga - Agro-economist/ Project Evaluation
4. Hirohisa Isogai - Structural Design Engineer
5. Hiromichi Sekine - Irrigation/Drainage Engineer
6. Akira Honda - Structural Planning Engineer
7. Kenichiro Kondo - Hydrologist
8. Takashi Kimijima - Agriculture/Soil Expert
9. Tadaharu Murono - Institutional Planner



添付資料-7

第1回月例作業進捗状況会議議事録
(1988年10月12日)

MONTHLY PROGRESS MEETING
BETWEEN
JICA MASTER PLAN STUDY TEAM
AND
SWIM TECHNICAL WORKING GROUP (TWG)

Series : 1
Date : October 12, 1988
Place : Meeting Room of JICA SWIM Project Office

ATTENDANCE :

TECHNICAL WORKING GROUP (TWG)

1. Tomas L. Buen	PMO-SWIM/DPWH
2. Raul E. Tubianosa	PMO-SWIM/DPWH
3. Melchor O. Baltazar	NWRB
4. Rommel R. Juat	FSDC-DA
5. Demetrio M. Gracia	BFAR
6. Valeriano Infante	NEA
7. Theodore C. Calma*	NIA
8. Jose C. Guanzon	PS/DPWH
9. Conrado R. Martin	BSWM
10. Gilberto S. Reyes**	BPD/DPWH
11. Francis B. Hilarie	NWRB

JICA-NATIONAL IRRIGATION ADMINISTRATION

1. Yasuhiko Mishima

JICA STUDY TEAM

1. Motoyoshi KAWASHIMA
2. Naoki ARIGA
3. Hirohisa ISOGAI
4. Takashi KIMIJIMA
5. Kenichiro KONDO
6. Hiromichi SEKINE
7. Akira HONDA
8. Seiji YAKUSHIJI

NOTE: * Representative of Mr. Clemente Alanano (NIA)

** Representative of Ms. Sofia Santiago (BOD/DPWH)

MINUTES OF MEETING

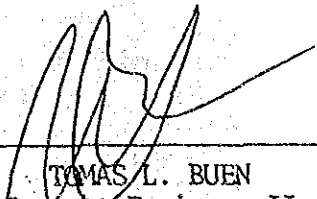
The meeting was presided by Mr. Tomas Buen in the absence of the Chairman, Mr. Fernando S. Nabong. JICA Study Team explained major activities made so far since their arrival on August 28, 1988. The Team also presented the lists of the SWIM projects proposed by each agency through DPWH (see ATTACHMENT-1) to the SWIM-TWG for discussion and comments. The lists comprise the following:

- (i) The candidate projects for the master plan study
- (ii) the candidate projects for post-evaluation study on the constructed projects.

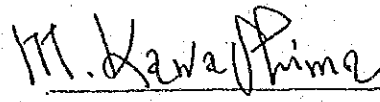
After a series of discussions, the following was confirmed:

- (1) All the projects proposed by each agency were listed as the candidate projects for the master plan study. The list was accepted by the SWIM-TWG with addition of two projects (Santol dam and Carmencita dam) identified by the Master Plan Study on the Cagayan River Basin Water Resources Development in 1987.
- (2) The list of the candidate projects for post-evaluation study on the constructed projects was finalized in the meeting. Porac SWIP and Kirong SWIP were included in the list in place of the Palacol Dam and Caulaman diversion dam proposed by the Team. FSDC proposed that the Fort Magsaysay dam should be taken up as one of the candidate projects for the post-evaluation study instead of the Bacnotan SWIP, if data and report would be made available. The Team agreed to the suggestion by FSDC. FSDC would look for the required data and report of the said project as early as possible.
- (3) The SWIM-TWG requested the Team to classify the projects by region, in order to confirm the equal distribution of the projects over the country.
- (4) Implementing agencies would not need to get any clearance from the JICA Study Team to undertake the study, design and implementation of the on-going projects. The implementing agencies were however requested to keep the close communication with the Team.
- (5) Revision of original plans and designs of the dams would not be undertaken by the Team. The Team would give general comments on engineering faults of the existing plans and designs, if any.

- (7) The Study would not go into details in any case in the field of development plans of the watershed areas and downstream areas of the dams.

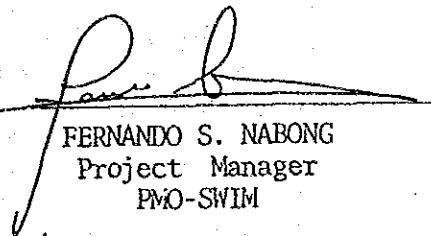


TOMAS L. BUEN
Project Engineer II
PMO-SWIM



MOTOYOSHI KAWASHIMA
Co-Team Leader
JICA Study Team

Certified by:



FERNANDO S. NABONG
Project Manager
PMO-SWIM

LIST OF CANDIDATE PROJECTS FOR THE JICA SWIM MASTER PLAN STUDY

(X) : data available
x : not available

Agency No.	Project Name	Region	Province Name	Municipality Name	Present Status.		
					Pre-F/S	F/S	D/O
1 DPWH-1	Saytan Dam & Reservoir SWIP	I	La Union	Saytan,Pugo	(X)		
2 DPWH-2	Bolo Dam & Reservoir SWIP	CAR	Kalinga-Apayao	Tabuk	(X)		x
3 DPWH-3	Sacrifice Valley Dam & Reservoir SWIP	III	Bataan	Hermosa	(X)		x
4 DPWH-4	Bulu Dam & Reservoir SWIP	III	Bulacan	Malibay, San Miguel	(X)		x
5 DPWH-5	Aulo River Multi-Purpose SWIP	III	Nueva Ecija	Palayan City	(X)		x
6 DPWH-6	Tulariquin Dam & Reservoir SWIP	IV	Palawan	Roxas	(X)		
7 DPWH-7	Burdeos River SWIP	IV	Quezon	Burdeos, Polillo Is.	(X)		x
8 DPWH-8	San Jose Dam & Reservoir SWIP	IV	Rizal	Korong	(X)		(X)
9 DPWH-9	Cubacub Dam & Reservoir SWIP	IV	Rizal	Pililla	(X)		x
10 DPWH-10	Nabua Dam & Reservoir SWIP	V	Canarines Sur	Iriga City	(X)		(X)
11 DPWH-11	Debesnac Dam & Reservoir SWIP	V	Masbate	Mandaon	(X)		
12 DPWH-12	Macagtas Dam & Reservoir SWIP	VIII	Northern Samar	Cataraan	(X)		(X)
13 DPWH-13	San Juan Dam & Reservoir SWIP	VIII	Northern Samar	Hondragon	x		(X)
14 DPWH-14	Guimba Dam & Reservoir SWIP	XII	Lanao del Sur	Guimba, Marawi City	(X)		(X)
15 DPWH-15	Magpet Dam & Reservoir SWIP	XII	North Cotabato	Magpet	(X)		(X)
16 DPWH-16	Banayal Dam & Reservoir SWIP	XII	North Cotabato	Tulunon	(X)		
17 DPWH-17	Acop Dam & Reservoir	I	Pangasinan	Acop, Rosales	x		
18 DPWH-18	Calitlitan Dam & Reservoir	I	Pangasinan	Calitlitan, Umingan	x		
19 DPWH-19	Kita-Kita Dam & Reservoir	I	Pangasinan	Kita-Kita, Balungao	x		
20 DPWH-20	Salvacion Dam & Reservoir	I	Pangasinan	Salvacion, Rosales	x		
21 DPWH-21	San Angel Dam & Reservoir	I	Pangasinan	San Angel, Rosales	x		
22 DPWH-22	Ligtos SWIP	VI	Iloilo	Ligtos, Igbaras	x		
23 DPWH-23	Abian SWIP (FSDC)	II	Nueva Viscaya	Banbang	x		
24 DPWH-24	Cattabagan SWIP (FSDC)	II	Isabela	Anig, Delfin Albano	x		
25 DPWH-25	Malalinta SWIP (FSDC)	II	Isabela	San Manuel	x		
26 DPWH-26	Calubayan SWIP (FSDC)	IV	Oriental Mindoro	Calubayan, Socorro	x		
27 DPWH-27	San Rafael SWIP (FSDC)	VI	Antique	San Remigio	x		
28 DPWH-28	Consolacion SWIP (FSDC)	VII	Cebu	Cansaga		x	x
29 DPWH-29	Lantawan SWIP (FSDC)	IX	Zamboanga del Sur	Wahayag	x		
30 DPWH-30	Bankerohan SWIP (FSDC)	XI	Davao del Norte	Montevista	x		
31 DPWH-31	Libasan SWIP (FSDC)	XI	Davao del Norte	Nabunturan	(X)	x	
32 NIA-1	Banila SWIP	I	Pangasinan	Umingan	(X)		(X)
33 NIA-2	Cabacanan SWIP	I	Ilocos Norte	Pagudpud	(X)		x
34 NIA-3	San Clemente SWIP	III	Tarlac	San Clemente	(X)		x
35 NIA-4	Parpagoja SWIP	IV	Romblon	San Andres	(X)		x
36 NIA-5	Tagua-Angas SWIP	IV	Marinduque	Sta. Cruz	(X)		x
37 NIA-6	Potot SWIP	V	Masbate	Milagros	(X)		x
38 NIA-7	Caranaon SWIP	V	Canarines Sur	Caranaon	(X)		x
39 NIA-8	Alapasco SWIP	VI	Iloilo	Batad	(X)		x
40 NIA-9	Nasig-id SWIP	VII	Negros Oriental	Zamboanguita	(X)		x
41 NIA-10	Dumanjug Ronda SWIP	VII	Cebu	Dumanjug and Ronda	x		x
42 NIA-11	Tugas SWIP	VII	Bohol	Candijay	(X)		x
43 NIA-12	Ilaya SWIP	VII	Bohol	Ubay	x		x
44 NIA-13	Hibulangan SWIP	VIII	Northern Leyte	Matagob	(X)		x
45 NIA-14	Sagudsuron SWIP	VIII	Northern Samar	Catubig	(X)		x
46 NIA-15	Bucacao SWIP	IX	Zamboanga del Sur	Alicia	(X)		x
47 NIA-16	Dongdongla SWIP	I	Ilocos Norte	Bangui	x		
48 NIA-17	Bucong Balingaon SWIP	I	Ilocos Sur	Candon	x		
49 NIA-18	Cowillas Extension SWIP	I	Ilocos Sur	Cervantes	x		
50 NIA-19	Silag Pacang SWIP	I	Ilocos Sur	Sta. Maria	x		

LIST OF CANDIDATE PROJECTS FOR THE JICA SWIP MASTER PLAN STUDY

⊗ : data available
x : not available

Agency No.	Agency No.	Project Name	Region	Province Name	Municipality Name	Present Status		
						Pre-F/S	F/S	D/D
51	NIA-20	Malayo SWIP	I	La Union	Balaoan	x		
52	NIA-21	Hagsiping SWIP	I	La Union	Luna	x		
53	NIA-22	Maasoas SWIP	I	La Union	Rosario	x		
54	NIA-23	Rizal SWIP	I	La Union	Tubao	x		
55	NIA-24	Bayaoas SWIP	I	Pangasinan	Aguilar	x		
56	NIA-25	Hasiden SWIP	I	Pangasinan	Bani	x		
57	NIA-26	Oboy-Oboy SWIP	I	Pangasinan	Bani	x		
58	NIA-27	Vega SWIP	I	Pangasinan	Dasol	x		
59	NIA-28	Toboy SWIP	I	Pangasinan	San Manuel	x		
60	NIA-29	Alibeng SWIP	I	Pangasinan	Sison	x		
61	NIA-30	Labayug SWIP	I	Pangasinan	Sison	x		
62	NIA-31	Digap SWIP	I	Pangasinan	Umingan	x		
63	NIA-32	Diket SWIP	I	Pangasinan	Umingan	x		
64	NIA-33	Nagtupacan SWIP	CAR	Abra	Bucay	x		
65	NIA-34	Nagtipulan SWIP	CAR	Abra	Lagangilang	x		
66	NIA-35	Palsiguan SWIP	CAR	Abra	Lagayan	x		
67	NIA-36	Atok Central SWIP	CAR	Benguet	Atok	x		
68	NIA-37	Kapangan SWIP	CAR	Benguet	Kapangan	x		
69	NIA-38	Sagubo SWIP	CAR	Benguet	Kapangan	x		
70	NIA-39	Tublay Central SWIP	CAR	Benguet	Tublay	x		
71	NIA-40	Pandey SWIP	CAR	Mt. Province	Bagnen, Bauko	x		
72	NIA-41	Lake Danun SWIP	CAR	Mt. Province	Besao	x		
73	NIA-42	Burayok SWIP	CAR	Mt. Province	Palitud, Paracelis	x		
74	NIA-43	Bayangaoan SWIP	CAR	Mt. Province	Suyo, Sagada	x		
75	NIA-44	Labangan River SWIP	III	Bataan	Abucay	x		
76	NIA-45	Tangilad River SWIP	III	Bataan	Sanal	x		
77	NIA-46	Capalangan-Mahipon CIS	III	Nueva Ecija	Gapan	x		
78	NIA-47	Hayat CIP	III	Nueva Ecija	Guimba	x		
79	NIA-48	San Felipe CIS	III	Nueva Ecija	Guimba	x		
80	NIA-49	Bayog CIS	III	Nueva Ecija	Laur	x		
81	NIA-50	Agupalo Este CIP	III	Nueva Ecija	Lupao	x		
82	NIA-51	San Roque CIP	III	Nueva Ecija	Lupao	x		
83	NIA-52	Sta. Nino III CIP	III	Nueva Ecija	Lupao	x		
84	NIA-53	Wantedted CIS	III	Nueva Ecija	San Jose City	x		
85	NIA-54	Cabu CIP	III	Nueva Ecija	Sta. Rosa	x		
86	NIA-55	Dalayap SWIP	III	Pampanga	Arayat	x		
87	NIA-56	Bliss II SWIP	III	Pampanga	Magalang	x		
88	NIA-57	Bigbiga CIS	III	Tarlac	Kayantoc	x		
89	NIA-58	Tangarang CIP	III	Tarlac	Kayantoc	x		
90	NIA-59	Lawacanulag CIP	III	Tarlac	Tarlac	x		
91	NIA-60	Western Barrios Impounding Irri. Proj.	III	Tarlac	Tarlac	x		
92	NIA-61	Pamalasan Creek SWIP	III	Zambales	Botolan	x		
93	NIA-62	Tutolanun Creek SWIP	III	Zambales	Botolan	x		
94	NIA-63	Naanel River SWIP	III	Zambales	Cabangan	x		
95	NIA-64	Tabao-Tabao River SWIP	III	Zambales	Cabangan	x		
96	NIA-65	Baculi Creek SWIP	III	Zambales	Iba	x		
97	NIA-66	Tagaleg Creek SWIP	III	Zambales	Iba	x		
98	NIA-67	Batang Creek SWIP	III	Zambales	Kasinloc	x		
99	NIA-68	Bato Creek SWIP	III	Zambales	Palauig	x		
100	NIA-69	Naglabusan Creek SWIP	III	Zambales	San Antonio	x		

LIST OF CANDIDATE PROJECTS FOR THE JICA SWIM MASTER PLAN STUDY

ⓧ : data available
x : not available

Agency No.	Agency No.	Project Name	Region	Province Name	Municipality Name	Present Status		
						Pre-F/S	F/S	D/D
101	NIA-70	Patogo River & Nayon River SWIP	III	Zambales	Sta. Cruz		x	
102	NIA-71	Mapanaw Creek SWIP	III	Zambales	Subic		x	
103	NIA-72	Katikin SWIP	IV	Laguna	Pakil		x	
104	NIA-73	Bahi CIP	IV	Marinduque	Gasan		x	
105	NIA-74	Quinlogan River SWIP	IV	Palawan	Quezon		x	
106	NIA-75	Singalong SWIP	IV	Rizal	Antipolo		x	
107	NIA-76	Carolina SWIP	IV	Romblon	Looc		x	
108	NIA-77	Gabawan SWIP	IV	Romblon	Odiongan		x	
109	NIA-78	Inogwa-Inaracting CIP	V	Albay	Libon		x	
110	NIA-79	Allang CIP	V	Albay	Ligao		x	
111	NIA-80	Nahulugan Pasig SWIP	V	Comarines Sur	Garchitorena		x	
112	NIA-81	Rangas SWIP	V	Comarines Sur	Goa		x	
113	NIA-82	Anib SWIP	V	Comarines Sur	Sipocot		x	
114	NIA-83	Tinavagan SWIP	V	Comarines Sur	Tigaon		x	
115	NIA-84	Guinobatan CIP	V	Catanduanes	Bato		x	
116	NIA-85	Conacaycay CIP	V	Catanduanes	Calolbon		x	
117	NIA-86	Paturuc CIP	V	Catanduanes	Calolbon		x	
118	NIA-87	Canburo CIP	V	Catanduanes	Pandan		x	
119	NIA-88	Palawig CIP	V	Catanduanes	San Andres		x	
120	NIA-89	Binalvaan CIP	V	Catanduanes	Viga		x	
121	NIA-90	Casuocan CIP	V	Catanduanes	Virac		x	
122	NIA-91	Havan CIP	V	Catanduanes	Virac		x	
123	NIA-92	Karilina CIP	V	Catanduanes	Virac		x	
124	NIA-93	Palta SWIP	V	Catanduanes	Virac		x	
125	NIA-94	Patabig CIP	V	Catanduanes	Virac		x	
126	NIA-95	Sinmla CIP	V	Catanduanes	Virac		x	
127	NIA-96	Inbanuban CIP	V	Wasbate	Balud		x	
128	NIA-97	Sta. Teresita CIP	V	Wasbate	Cataingan		x	
129	NIA-98	Batongan CIP	V	Wasbate	Mandaon		x	
130	NIA-99	Janoravon CIP	V	Wasbate	Milagros		x	
131	NIA-100	Cabangcalan CIP	V	Wasbate	Placer		x	
132	NIA-101	Kahayag CIP	V	Wasbate	Placer		x	
133	NIA-102	Pili CIP	V	Wasbate	Placer		x	
134	NIA-103	Resurrecion CIP	V	Wasbate	San Fernando		x	
135	NIA-104	Rizal CIP	V	Wasbate	San Fernando		x	
136	NIA-105	Tigao SWIP	V	Wasbate	San Fernando		x	
137	NIA-106	Bontolan CIP	V	Wasbate	Uson		x	
138	NIA-107	Boracan CIP	V	Wasbate	Uson		x	
139	NIA-108	Pinangakogan CIP	V	Wasbate	Uson		x	
140	NIA-109	Babog Loreto SWIP	V	Sorsogon	Castilla		x	
141	NIA-110	Botong CIP	V	Sorsogon	Prieto-Diaz		x	
142	NIA-111	Ibingan SWIP	V	Sorsogon	Prieto-Diaz		x	
143	NIA-112	Bagasico SWIP	VII	Bohol	Untaga, Alicia		x	
144	NIA-113	Cabatang SWIP	VII	Bohol	Alicia		x	
145	NIA-114	Caaba-ol SWIP	VII	Bohol	Alicia		x	
146	NIA-115	Cayacay SWIP	VII	Bohol	Cayacay, Alicia		x	
147	NIA-116	Junas SWIP	VII	Bohol	Alicia		x	
148	NIA-117	Progreso SWIP	VII	Bohol	Alicia		x	
149	NIA-118	Untaga SWIP	VII	Bohol	Alicia		x	
150	NIA-119	Bonot-Bonot SWIP	VII	Bohol	Buenavista		x	

LIST OF CANDIDATE PROJECTS FOR THE JICA SWIK MASTER PLAN STUDY

ⓧ : data available
x : not available

Agency		Project Name	Region	Province Name	Municipality Name	Present Status		
No.	No.					Pre-F/S	F/S	D/D
151	NIA-120	Calunasan SWIP	VII	Bohol	Calape		x	
152	NIA-121	Mandaug SWIP	VII	Bohol	Calape		x	
153	NIA-122	Abejilan SWIP	VII	Bohol	Candijay		x	
154	NIA-123	Boyo-an SWIP	VII	Bohol	Candijay		x	
155	NIA-124	Calaningaw SWIP	VII	Bohol	Candijay		x	
156	NIA-125	Caubane SWIP	VII	Bohol	Candijay		x	
157	NIA-126	Candijay SWIP	VII	Bohol	Candijay		x	
158	NIA-127	Gabayan SWIP	VII	Bohol	Canana, Candijay		x	
159	NIA-128	Lungsoda-an SWIP	VII	Bohol	Candijay		x	
160	NIA-129	Tubod SWIP	VII	Bohol	Candijay		x	
161	NIA-130	Catungawan SWIP	VII	Bohol	Guindulman		x	
162	NIA-131	Lapacan SWIP	VII	Bohol	Inabanga		x	
163	NIA-132	Taytay SWIP	VII	Bohol	Jetafe		x	
164	NIA-133	Abaca SWIP	VII	Bohol	Mabini		x	
165	NIA-134	Cabidian SWIP	VII	Bohol	Mabini		x	
166	NIA-135	Cabulao SWIP	VII	Bohol	Mabini		x	
167	NIA-136	Ondol SWIP	VII	Bohol	Mabini		x	
168	NIA-137	Talibon SWIP	VII	Bohol	Zanora, Talibon		x	
169	NIA-138	San Isidro Banlasan SWIP	VII	Bohol	Trinidad		x	
170	NIA-139	Banlasan SWIP	VII	Bohol	Tubigon		x	
171	NIA-140	Cabulihan SWIP	VII	Bohol	Tubigon		x	
172	NIA-141	Biabas SWIP	VII	Bohol	Ubay		x	
173	NIA-142	Benlin SWIP	VII	Bohol	Benlin, Ubay		x	
174	NIA-143	Bongbong SWIP	VII	Bohol	Ubay		x	
175	NIA-144	Dita SWIP	VII	Bohol	Ubay		x	
176	NIA-145	Lunangog SWIP	VII	Bohol	Ubay		x	
177	NIA-146	Tipolo SWIP	VII	Bohol	Ubay		x	
178	NIA-147	Kanasuhan CIP	VII	Cebu	Carcar		x	
179	NIA-148	Luyang CIP	VII	Cebu	Carmen		x	
180	NIA-149	Danao CIP	VII	Cebu	Danao City		x	
181	NIA-150	Tungkod CIP	VII	Cebu	Kinglanilla		x	
182	NIA-151	Bayawan CIP	VII	Negros Oriental	Bayawan		x	
183	NIA-152	Kaayog-Tubig CIP	VII	Negros Oriental	Davin		x	
184	NIA-153	Kabinay CIP	VII	Negros Oriental	Kabinay		x	
185	NIA-154	Kasaplod CIP	VII	Negros Oriental	Davin		x	
186	NIA-155	Guihulngan CIP	VII	Negros Oriental	Guihulngan		x	
187	NIA-156	Guinobaan CIP	VII	Negros Oriental	Guihulngan		x	
188	NIA-157	Naga-Mantuyop CIP	VII	Negros Oriental	Siaton		x	
189	NIA-158	San Antonio CIP	VII	Negros Oriental	Sibulan		x	
190	NIA-159	Taubolan CIP	VII	Negros Oriental	Tayasan		x	
191	NIA-160	Valencia CIP	VII	Negros Oriental	Valencia		x	
192	NIA-161	Senona CIP	VII	Siquijor	Lazi		x	
193	NIA-162	Sinacolng CIP	VII	Siquijor	Lazi		x	
194	NIA-163	Tigbao SWIP	VII	Siquijor	Lazi		x	
195	NIA-164	Lotlotan SWIP	VII	Siquijor	Maria		x	
196	NIA-165	Donanjog SWIP	VII	Siquijor	Siquijor		x	
197	NIA-166	Songcolan CIP	VII	Siquijor	Siquijor		x	
198	NIA-167	Balacdas CIP	VIII	Eastern Samar	Borongan		x	
199	NIA-168	Cati-an CIP	VIII	Eastern Samar	Borongan		x	
200	NIA-169	Sta. Fe SWIP	VIII	Eastern Samar	Borongan		x	

LIST OF CANDIDATE PROJECTS FOR THE JICA SWIM MASTER PLAN STUDY

ⓧ : data available
x : not available

Agency No.	Project Name	Region	Province Name	Municipality Name	Present Status		
					Pre-F/S	F/S	D/D
201 NIA-170	Guibungan CIP	VIII	Eastern Samar	Can-Avid			x
202 NIA-171	Cantunco SWIP	VIII	Eastern Samar	Llorente			x
203 NIA-172	Capatagan SWIP	VIII	Eastern Samar	Llorente			x
204 NIA-173	Layog-Casoroy CIP	VIII	Eastern Samar	San Julian			x
205 NIA-174	Surok-Nena CIP	VIII	Eastern Samar	San Julian			x
206 NIA-175	Sta. Tomas SWIP	VIII	Eastern Samar	Sulat			x
207 NIA-176	Nato CIP	VIII	Eastern Samar	Taft			x
208 NIA-177	San Luis CIP	VIII	Eastern Samar	Taft			x
209 NIA-178	Taft CIP	VIII	Eastern Samar	Taft			x
210 NIA-179	Kacagtas SWIP	VIII	Northern Samar	Cataman			x
211 NIA-180	Galutan SWIP	VIII	Northern Samar	Kondragon			x
212 NIA-181	Jazmines CIP	VIII	Samar	Gandara			x
213 NIA-182	Nacobi CIP	VIII	Samar	Gandara			x
214 NIA-183	Ravis CIP	VIII	Samar	Gandara			x
215 NIA-184	Blanca Aurora SWIP	VIII	Samar	San Jorge			x
216 NIA-185	Sta. Rita CIP	VIII	Samar	Sta. Rita			x
217 NIA-186	Mahayashay SWIP	VIII	Southern Leyte	Bontoc			x
218 NIA-187	Bogo-Dongon SWIP	VIII	Southern Leyte	Maasin			x
219 NIA-188	Laboon SWIP	VIII	Southern Leyte	Maasin			x
220 NIA-189	Pasanon SWIP	VIII	Southern Leyte	San Francisco			x
221 NIA-190	Kanansi-Rizal SWIP	VIII	Southern Leyte	Tomas Oppus			x
222 NIA-191	Mercedez CIP	IX	Zamboanga City				x
223 NIA-192	Basag CIS	X	Agusan del Norte	Basag Creek			x
224 NIA-193	Bonbon CIS	X	Agusan del Norte	Bonbon Creek			x
225 NIA-194	Amontay CIS	X	Agusan del Norte	Tagub Creek			x
226 NIA-195	Kitcharao CIS	X	Agusan del Norte	Taytay-Oyos Creek			x
227 NIA-196	Cabanglasan CIP	X	Bukidnon	Cabanglasan			x
228 NIA-197	Dela Paz CIS	X	Misamis Occidental	Hohon Creek			x
229 NIA-198	Tangub CIS	X	Misamis Occidental	Tangub River			x
230 NIA-199	Balingasag CIP	X	Misamis Oriental	Balatumam River			x
231 NIA-200	Banglay CIP	X	Misamis Oriental	Banglay Creek			x
232 NIA-201	Honopolan CIP	X	Misamis Oriental	Honopolan Creek			x
233 NIA-202	Gumaod CIP	X	Misamis Oriental	Gumaod Lake			x
234 NIA-203	Sta. Ana CIP	X	Misamis Oriental	Sta. Ana Creek			x
235 NIA-204	Solana CIP	X	Misamis Oriental	Solana River			x
236 NIA-205	Bulod SWIP	XII	Lanao del Norte				x
237 NIA-206	Salug SWIP	XII	Lanao del Norte				x
238 NIA-207	Busok SWIP	XII	Sultan Kudarat	Bagunbayan			x
239 NIA-208	Karbol SWIP	XII	Sultan Kudarat	Bagunbayan			x
240 NIA-209	Kuno SWIP	XII	Sultan Kudarat	Bagunbayan			x
241 NIA-210	Bila SWIP	XII	Sultan Kudarat	Colombio			x
242 NIA-211	Cadedang SWIP	XII	Sultan Kudarat	Lutawan			x
243 NIA-212	Kalandagan SWIP	XII	Sultan Kudarat	Tacurong			x
244 NIA-213	Puti SWIP	XII	Sultan Kudarat	Tacurong			x
245 FMB-1	Anburayan River Watershed Rehab.	I	Ilocos Sur, Benguet & La Union				ⓧ
246 FMB-2	Laosg River Watershed Rehabilitation	I	Ilocos Norte	Espiritu, Nueva Era & Piddig			ⓧ
247 FMB-3	Ilocos Norte Metropolitan Forest Reser.	I	Ilocos Norte	Pasuquin			ⓧ
248 FMB-4	Lidlidda Watershed Forest Reserve	I	Ilocos Sur	Banajoyo, Lidlidda			ⓧ

LIST OF CANDIDATE PROJECTS FOR THE JICA SWIN MASTER PLAN STUDY

(X) : data available
x : not available

Agency No.	Project Name	Region	Province Name	Municipality Name	Present Status Pre-F/S F/S D/D
249 FMB-5	Naguilian River Watershed Rehab.	I	La Union	Naguilian	(X)
250 FMB-6	Lower Agno River Watershed Rehab.	I	Benguet	Tuba	(X)
			Pangasinan	San Nicolas & San Manuel	
251 FMB-7	Alaminos Watershed Rehabilitation	I	Pangasinan	Alaminos	x
252 FMB-8	Hangataren Sub-Watershed Rehabilitation	I	Pangasinan	Hangataren	x
253 FMB-9	Dannun River Watershed Rehabilitation	II	Cagayan	Gattaran	x
254 FMB-10	Diadi River Watershed Rehabilitation	II	Cagayan	San Luis	x
			Isabela	Cordon	
			Nueva Vizcaya	Bagabag	
255 FMB-11	Kasibu River Watershed Rehabilitation	II	Nueva Vizcaya	Kasibu	x
256 FMB-12	Bawa and Wangag Watershed Rehab.	II	Cagayan	Gonzaga	(X)
257 FMB-13	Kilkiling Watershed Forest Reserve	II	Cagayan	Claveria	(X)
258 FMB-14	Barobbob Spring Watershed Rehab.	II	Nueva Vizcaya	Barobbob	(X)
259 FMB-15	Sta. Praxedes Watershed Rehabilitation	II	Cagayan	Sta. Praxedes	(X)
260 FMB-16	Casecnan Watershed Rehabilitation	II	Nueva Vizcaya	Dupax	(X)
261 FMB-17	Sinapaoan Sub-Watershed Rehabilitation	II	Nueva Vizcaya	Sta. Fe	x
262 FMB-18	Manga River Watershed Rehabilitation	II	Nueva Vizcaya	Dupax del Norte	x
263 FMB-19	Hariveles Watershed Rehabilitation	III	Bataan	Orion, Bagac, Linay	x
264 FMB-20	Pasig-Timbu Potrero River Water. Rehab.	III	Pampanga	Porac, Bacolor	x
265 FMB-21	Tangbao Sub-Watershed Rehab.	III	Tarlac	Kayantoc	x
266 FMB-22	O'Donnel River Watershed Rehab.	III	Tarlac	Capas, Mayantoc, Tarlac	x
267 FMB-23	Balog-Balog Watershed Rehabilitation	III	Tarlac	Tarlac	(X)
268 FMB-24	Masinloc Watershed Rehabilitation	III	Zambales	Candelaria	(X)
269 FMB-25	Talavera Watershed Rehabilitation	III	Nueva Ecija	Carranglaan	(X)
270 FMB-26	Laguna de Bay Watershed Rehabilitation	IV	Laguna, Cavite		x
			Rizal, Batangas		
271 FMB-27	Agos River Watershed Rehabilitation	IV	Quezon	Infanta	x
272 FMB-28	Atimonan Watershed Forest Reserve	IV	Quezon	Atimonan	x
273 FMB-29	Kaliwa River Watershed Rehabilitation	IV	Quezon	Infanta	(X)
			Rizal	Kontalban-Teresa	
274 FMB-30	Kanan River Watershed Rehabilitation	IV	Quezon	Gen. Nakar-Infanta	(X)
275 FMB-31	Lake Buhi-Barit River Watershed Rehab.	V	Canarines Sur	Buhi	(X)
276 FMB-32	Marangas River Watershed Rehabilitation	IV	Palawan	Brookes Pt.	x
277 FMB-33	Alabat Watershed Rehabilitation	IV	Quezon	Alabat	x
278 FMB-34	Calatrava-San Andres-San Agustin Watershed Forest Reserve	IV	Romblon	San Agustin-San Andres	(X)
279 FMB-35	Dipaculao Watershed Rehabilitation	IV	Quezon	Dipaculao	(X)
280 FMB-36	Dulangan Sub-Watershed Erosion Con.Proj.	IV	Oriental Mindoro	Baco	x
281 FMB-37	Sablayan Watershed Pilot Project	IV	Occidental Mindoro	Sablayan	x
282 FMB-38	Kalvar Naujan Watershed Rehab. Project	IV	Oriental Mindoro	Naujan	x
283 FMB-39	Binasagan Yabo River Watershed Rehab.	V	Canarines Sur	Pili	x
284 FMB-40	Ilog-Nivarangan River Watershed Rehab.	VII	Negros Oriental	Ilog	x
285 FMB-41	Panay-Naabusao River Watershed Rehab.	VI	Capiz	Panay	x
286 FMB-42	San Pedro Ilaya & Cansohay River Water.	VII	Bohol	Duero	x
287 FMB-43	Candijay Watershed Rehabilitation	VII	Bohol	Candijay-Guindulnan	x
288 FMB-44	Catubig River Watershed Rehab.	VIII	Northern Samar	Palapag, Laoang, Catubig	x
289 FMB-45	Candacan-Tinane-Ulot River Water. Rehab.	VIII	Eastern-Western Samar	Wright, Can-Avid	x
290 FMB-46	Palompon Watershed Forest Reserve	VIII	Leyte	Palompon	(X)
291 FMB-47	Curuan Watershed Rehabilitation	IX	Zamboanga del Sur	Curuan, Zamboanga City	x

LIST OF CANDIDATE PROJECTS FOR THE JICA SWIM MASTER PLAN STUDY

ⓧ : data available
x : not available

Agency No.	Project Name	Region	Province Name	Municipality Name	Present Status
No.	No.				Pre-F/S F/S O/D
292	FKB-48		Zamboanga del Norte	Siocon	ⓧ
293	FKB-49		Zamboanga del Sur	Zamboanga City	ⓧ
294	FKB-50		North Cotabato	Midsayap	x
295	FMB-51		North Cotabato	Kidapawan	x
296	FMB-52		Zamboanga del Sur	Labangan, Pagadian City	x
297	FKB-53		Misamis Occidental	Hamayog, Molave,	x
298	FMB-54		Agusan del Norte	Carnen	x
299	FKB-55		Davao del Sur	Digos	x
300	FMB-56		Surigao del Sur	Cantilan	x
301	NEA-1		Pangasinan	Mangataren	ⓧ x
302	NBA-2		Pangasinan	San Nicolas	ⓧ
303	NBA-3		La Union	San Gabriel	ⓧ
304	NBA-4		La Union	Pogo	ⓧ
305	NEA-5		Ilocos Norte	Pagudpud	ⓧ x
306	NEA-6		Zambales	Palauig	ⓧ
307	NEA-7		Zambales	Sta. Cruz	ⓧ
308	NEA-8		Nueva Ecija	Bongabon	ⓧ x
309	NEA-9		Nueva Vizcaya	Solano	ⓧ x
310	NEA-10		Zambales	Palauig	ⓧ
311	NEA-11		Zambales	Iba	ⓧ
312	NEA-12		Quezon	Sanpalooc	ⓧ
313	NEA-13		Canarines Sur	Goa	ⓧ
314	NEA-14		Canarines Sur	Calabanga	ⓧ
315	NEA-15		Sorsogon	Bacon	ⓧ x
316	NEA-16		Canarines Sur	Buhi	ⓧ
317	NEA-17		Canarines Sur	Buhi	ⓧ
318	NEA-18		Canarines Sur	Buhi	ⓧ x
319	NBA-19		Canarines Sur	Haga City	ⓧ
320	NBA-20		Sorsogon	Sorsogon	ⓧ
321	NBA-21		Canarines Sur	Goa	ⓧ
322	NBA-22		Albay	Manito	ⓧ
323	NBA-23		Sorsogon	Bacon	ⓧ x
324	NBA-24		Negros Occidental	Bago	ⓧ x
325	NBA-25		Antique	Barbara	ⓧ x
326	NBA-26		Antique	Tibiao	ⓧ x
327	NEA-27		Negros Oriental	Anlan	ⓧ
328	NEA-28		Negros Oriental	Bindoy	ⓧ
329	NEA-29		Negros Oriental	Siaton	ⓧ
330	NEA-30		Negros Oriental	San Jose	ⓧ
331	NEA-31		Negros Oriental	San Jose	ⓧ
332	NEA-32		Negros Oriental	San Jose	ⓧ
333	NEA-33		Samar	Calbayog City	ⓧ x
334	NBA-34		Ronblon	San Fernando	ⓧ
335	NEA-35		Aurora	Casiguran	x
336	NEA-36		Palawan	Narra	ⓧ
337	NEA-37		Palawan	Narra	ⓧ
338	NEA-38		Palawan	Puerto Princesa City	ⓧ
339	NEA-39		Southern Leyte	San Juan	ⓧ
340	NBA-40		Northern Samar	San Isidro	ⓧ
341	NBA-41		Surigao del Sur	Bislig	ⓧ

LIST OF CANDIDATE PROJECTS FOR THE JICA SWIN MASTER PLAN STUDY

Ⓢ : data available
x : not available

Agency No.		Project Name	Region	Province Name	Municipality Name	Present Status		
No.	No.					Pre-F/S	F/S	D/D
342	NBA-42	Hubo River SWIP	XI	Surigao del Sur	San Agustin	x		
343	NBA-43	Kanapnapan Falls SWIP	XII	Lanao del Sur	Kalabang	Ⓢ		
344	NBA-44	Matling River SWIP	XII	Lanao del Sur	Kalabang	Ⓢ		
345	NBA-45	Tubungan River SWIP	IX	Basilan	Lamitan	x		
346	NBA-46	Konikan River SWIP	IX	Basilan	Lamitan	x		
347	NBA-47	Batalan River SWIP	III	Bataan	Morong	Ⓢ		
348	BSWK-1	Sucsuguen SWIP	I	Ilocos Norte	Piddig		Ⓢ	Ⓢ
349	BSWK-2	Olo-olo I SWIP	I	Ilocos Sur	Santiago		Ⓢ	Ⓢ
350	BSWK-3	Olo-Olo II SWIP	I	Ilocos Sur	Santiago		Ⓢ	Ⓢ
351	BSWK-4	Balingao SWIP	I	Ilocos Sur	Candon		Ⓢ	Ⓢ
352	BSWK-5	San Cristobal SWIP	I	Ilocos Norte	Sarrat		Ⓢ	Ⓢ
353	BSWK-6	San Agustin SWIP	I	Ilocos Norte	San Nicolas		Ⓢ	Ⓢ
354	BSWK-7	Bingao II SWIP	I	Ilocos Norte	San Nicolas		Ⓢ	Ⓢ
355	BSWK-8	Oda SWIP	I	Pangasinan	Agno		Ⓢ	Ⓢ
356	BSWK-9	Pugaro SWIP	I	Pangasinan	Manaoag		Ⓢ	Ⓢ
357	BSWK-10	Panaranua SWIP	I	Pangasinan	Malasiqui		Ⓢ	Ⓢ
358	BSWK-11	Caparispisan SWIP	I	Ilocos Norte	Pagudpud		Ⓢ	Ⓢ
359	BSWK-12	Patong SWIP	I	Ilocos Sur	Hagsingal		Ⓢ	Ⓢ
360	BSWK-13	Samac SWIP	I	Ilocos Norte	San Nicolas		Ⓢ	Ⓢ
361	BSWK-14	Mabini SWIP	I	Pangasinan	Balungao		Ⓢ	Ⓢ
362	BSWK-15	San Gonzalo SWIP	I	Pangasinan	Labrador		Ⓢ	Ⓢ
363	BSWK-16	Canagsingalan SWIP	I	Pangasinan	Sual		Ⓢ	Ⓢ
364	BSWK-17	Patar SWIP	I	Pangasinan	Mabini		Ⓢ	Ⓢ
365	BSWK-18	Kalimpin SWIP	I	Pangasinan	Dasol		Ⓢ	Ⓢ
366	BSWK-19	Viga SWIP	I	Pangasinan	Dasol		Ⓢ	Ⓢ
367	BSWK-20	Cabuosan SWIP	I	Ilocos Norte	Curinao		Ⓢ	Ⓢ
368	BSWK-21	Hagnuag SWIP	I	Ilocos Norte	Batac		Ⓢ	Ⓢ
369	BSWK-22	Canagsingalan #2 SWIP	I	Pangasinan	Sual		Ⓢ	Ⓢ
370	BSWK-23	Daquioag II SWIP	I	Ilocos Norte	Marcos		Ⓢ	Ⓢ
371	BSWK-24	San Andres SWIP	I	Ilocos Norte	Sarrat		Ⓢ	Ⓢ
372	BSWK-25	Paninaan SWIP	I	Ilocos Norte	Bacarra		Ⓢ	Ⓢ
373	BSWK-26	San Juan I SWIP	CAR	Abra	Pilar		Ⓢ	Ⓢ
374	BSWK-27	San Juan II SWIP	CAR	Abra	Pilar		Ⓢ	Ⓢ
375	BSWK-28	Macarcaray SWIP	CAR	Abra	Bangued		Ⓢ	Ⓢ
376	BSWK-29	Pata SWIP	II	Cagayan	Claveria		Ⓢ	Ⓢ
377	BSWK-30	Balacuit SWIP	II	Nueva Vizcaya	Villaverde		Ⓢ	Ⓢ
378	BSWK-31	Cabannungan SWIP	II	Isabela	Ilagan		Ⓢ	Ⓢ
379	BSWK-32	Karana SWIP	II	Isabela	Ilagan		Ⓢ	Ⓢ
380	BSWK-33	Cabuluan SWIP	II	Cagayan	Alcala		Ⓢ	Ⓢ
381	BSWK-34	Diadi SWIP	II	Nueva Vizcaya	Diadi		Ⓢ	Ⓢ
382	BSWK-35	Naganacan SWIP	II	Isabela	Sta. Maria		Ⓢ	Ⓢ
383	BSWK-36	Balete SWIP	II	Nueva Vizcaya	Diadi		Ⓢ	Ⓢ
384	BSWK-37	Kinagbag SWIP	II	Isabela	Quezon		Ⓢ	Ⓢ
385	BSWK-38	Kirang SWIP	II	Nueva Vizcaya	Aritao		Ⓢ	Ⓢ
386	BSWK-39	Lanneg SWIP	II	Cagayan	Solana		Ⓢ	Ⓢ
387	BSWK-40	San Antonio SWIP	II	Nueva Vizcaya	Banbang		Ⓢ	Ⓢ
388	BSWK-41	Abian SWIP	II	Nueva Vizcaya	Banbang		Ⓢ	Ⓢ
389	BSWK-42	Trinidad SWIP	II	Isabela	Kallig		Ⓢ	Ⓢ
390	BSWK-43	Kalalan SWIP	II	Isabela	Ilagan		Ⓢ	Ⓢ
391	BSWK-44	Apang SWIP	II	Cagayan	Claveria		Ⓢ	Ⓢ

LIST OF CANDIDATE PROJECTS FOR THE JICA SWIM MASTER PLAN STUDY

⊗ : data available
x : not available

Agency No.	Project Name	Region	Province Name	Municipality Name	Present Status		
					Pre-F/S	F/S	D/D
392 BSWK-45	Anneg SWIP	II	Isabela	Kagsaysay	⊗	⊗	
393 BSWK-46	Victoria SWIP	II	Quirino	Aglipay	⊗	⊗	
394 BSWK-47	San Marcos SWIP	II	Quirino	Cabarroguis	⊗	⊗	
395 BSWK-48	San Francisco SWIP	II	Quirino	Aglipay	⊗	⊗	
396 BSWK-49	Sta. Filomena SWIP	II	Isabela	San Mariano	⊗	⊗	
397 BSWK-50	Old San Mariano SWIP	II	Isabela	San Mariano	⊗	⊗	
398 BSWK-51	Yeban SWIP	II	Isabela	Benito Soliven	⊗	⊗	
399 BSWK-52	Minallo SWIP	II	Isabela	Haguilian	⊗	⊗	
400 BSWK-53	Baguinge SWIP	CAR	Ifugao	Kiangan	⊗	⊗	
401 BSWK-54	Halog SWIP	CAR	Ifugao	Hayon, Lanut	⊗	⊗	
402 BSWK-55	Paku SWIP	CAR	Ifugao	Hayon, Lanut	⊗	⊗	
403 BSWK-56	Afusing Daga SWIP	II	Cagayan	Alcala	⊗	⊗	
404 BSWK-57	Maasin SWIP	II	Cagayan	Alcala	⊗	⊗	
405 BSWK-58	Catallangan SWIP	II	Cagayan	Alcala	⊗	⊗	
406 BSWK-59	Ganzano SWIP	II	Cagayan	Gattaran	⊗	⊗	
407 BSWK-60	Sanpalooc SWIP	III	Nueva Ecija	Talugtug	⊗	⊗	
408 BSWK-61	Sto. Domingo SWIP	III	Nueva Ecija	Lupao	⊗	⊗	
409 BSWK-62	Masalipit SWIP	III	Bulacan	San Miguel	⊗	⊗	
410 BSWK-63	Villa Boado SWIP	III	Nueva Ecija	Talugtug	⊗	⊗	
411 BSWK-64	Butid SWIP	III	Nueva Ecija	Talugtug	⊗	⊗	
412 BSWK-65	Maninog SWIP	III	Tarlac	Kayantoc	⊗	⊗	
413 BSWK-66	Villa Isla SWIP	III	Nueva Ecija	Munoz	⊗	⊗	
414 BSWK-67	Sta. Catalina SWIP	III	Nueva Ecija	Talugtug	⊗	⊗	
415 BSWK-68	Pulo SWIP	III	Bulacan	San Rafael	⊗	⊗	
416 BSWK-69	Sto. Domingo II SWIP	III	Nueva Ecija	Talugtug	⊗	⊗	
417 BSWK-70	Bitungol SWIP	III	Bulacan	Horzagaray	⊗	⊗	
418 BSWK-71	Maasin SWIP	III	Nueva Ecija	Talugtug	⊗	⊗	
419 BSWK-72	Sto. Domingo I SWIP	III	Nueva Ecija	Talugtug	⊗	⊗	
420 BSWK-73	Mangandingay SWIP	III	Nueva Ecija	Munoz	⊗	⊗	
421 BSWK-74	Naaulandayan SWIP	III	Nueva Ecija	Lupao	⊗	⊗	
422 BSWK-75	Parista SWIP	III	Nueva Ecija	Lupao	⊗	⊗	
423 BSWK-76	Balbalungao SWIP	III	Nueva Ecija	Lupao	⊗	⊗	
424 BSWK-77	Lagunlong SWIP	IV	Oriental Mindoro	Baco	⊗	⊗	
425 BSWK-78	Pakala II SWIP	IV	Oriental Mindoro	Baco	⊗	⊗	
426 BSWK-79	Bayuin SWIP	IV	Oriental Mindoro	Socorro	⊗	⊗	
427 BSWK-80	Camburay SWIP	IV	Occidental Mindoro	San Jose	⊗	⊗	
428 BSWK-81	Sayab SWIP	IV	Palawan	Bataraza	x	x	
429 BSWK-82	Buenasuerte SWIP	V	Nasbete	Uson	⊗	⊗	
430 BSWK-83	Bulhao SWIP	V	Caarines Norte	Labo	⊗	⊗	
431 BSWK-84	Dalnac SWIP	V	Caarines Norte	Paracale	⊗	⊗	
432 BSWK-85	Gabavan SWIP	V	Albay	Daraga	⊗	⊗	
433 BSWK-86	Burgos SWIP	V	Catanduanes	Viga	⊗	⊗	
434 BSWK-87	F. Arcangel SWIP	VI	Aklan	Balete	⊗	⊗	
435 BSWK-88	Pinonoy SWIP	VI	Aklan	Libacao	⊗	⊗	
436 BSWK-89	Sibaliw SWIP	VI	Aklan	Toralba, Banga	⊗	⊗	
437 BSWK-90	Panlagangan SWIP	VI	Antique	Sibalon	⊗	⊗	
438 BSWK-91	Traciano SWIP	VI	Capiz	Dunaroo	⊗	⊗	
439 BSWK-92	San Roque SWIP	VI	Aklan	Malinao	⊗	⊗	
440 BSWK-93	Aranas SWIP	VI	Aklan	Balete	⊗	⊗	
441 BSWK-94	Buenavista SWIP	VI	Antique	Belison	⊗	⊗	

LIST OF CANDIDATE PROJECTS FOR THE JICA SWIK MASTER PLAN STUDY

ⓧ : data available
x : not available

Agency		Project Name	Region	Province Name	Municipality Name	Present Status		
No.	No.					Pre-F/S	F/S	D/D
442	BSWN-95	Dita I SWIP	VII	Bohol	Ubay	ⓧ	ⓧ	
443	BSWN-96	Dita II SWIP	VII	Bohol	Ubay	ⓧ	ⓧ	
444	BSWN-97	San Jose SWIP	VII	Bohol	Mabini	ⓧ	ⓧ	
445	BSWN-98	Sto. Nino SWIP	VII	Bohol	Talibon	ⓧ	ⓧ	
446	BSWN-99	Nangka SWIP	VII	Negros Oriental	Bayawan	ⓧ	ⓧ	
447	BSWN-100	Bagtic SWIP	VII	Negros Oriental	Kabinay	ⓧ	ⓧ	
448	BSWN-101	Mabilog SWIP	VII	Negros Oriental	Ayungon	ⓧ	ⓧ	
449	BSWN-102	Bong-Bong I SWIP	VII	Bohol	Ubay	ⓧ	ⓧ	
450	BSWN-103	Bong-Bong II SWIP	VII	Bohol	Ubay	ⓧ	ⓧ	
451	BSWN-104	Calanggaman I SWIP	VII	Bohol	Ubay	ⓧ	ⓧ	
452	BSWN-105	Katipunan SWIP	VII	Bohol	Carmen	x	x	
453	BSWN-106	Buyog SWIP	VII	Bohol	Valencia	x	x	
454	BSWN-107	Calinganay SWIP	VII	Bohol	Alicia	x	x	
455	BSWN-108	Jubasan SWIP	VIII	Northern Samar	Allen	ⓧ	ⓧ	
456	BSWN-109	Casabahan SWIP	VIII	Western Samar	Gandara	ⓧ	ⓧ	
457	BSWN-110	Inaburacay SWIP	VIII	Northern Samar	Bobon	ⓧ	ⓧ	
458	BSWN-111	Sta. Fe SWIP	VIII	Western Samar	Borongon	ⓧ	ⓧ	
459	BSWN-112	Campin SWIP	VIII	Leyte	Kahaplag	ⓧ	ⓧ	
460	BSWN-113	Laboon SWIP	VIII	Southern Leyte	Maasin	ⓧ	ⓧ	
461	BSWN-114	Polanqui SWIP	VIII	Eastern Samar	Taft	ⓧ	ⓧ	
462	BSWN-115	Tabawan SWIP	VIII	Western Samar	Tabawan, Calbayog City	ⓧ	ⓧ	
463	BSWN-116	Dau-Oras SWIP	VIII	Eastern Samar	Oras	x	x	
464	BSWN-117	Woodland SWIP	IX	Zamboanga del Sur	Begong, Dumaliniao	ⓧ	ⓧ	
465	BSWN-118	Sunadat SWIP	IX	Zamboanga del Sur	Dumaliniao	ⓧ	ⓧ	
466	BSWN-119	Lungnot SWIP	IX	Zamboanga del Sur	Dumaliniao	ⓧ	ⓧ	
467	BSWN-120	Lamare I SWIP	IX	Zamboanga del Sur	Bayog	ⓧ	ⓧ	
468	BSWN-121	Lamare II SWIP	IX	Zamboanga del Sur	Bayog	ⓧ	ⓧ	
469	BSWN-122	Buenavista SWIP	IX	Zamboanga del Sur	Curuan	ⓧ	ⓧ	
470	BSWN-123	Goling SWIP	IX	Zamboanga del sur	Diplahan	ⓧ	ⓧ	
471	BSWN-124	Lubuangono SWIP	X	Bukidnon	Kibave	ⓧ	ⓧ	
472	BSWN-125	Alubijid SWIP	X	Agusan del Norte	Buenavista	ⓧ	ⓧ	
473	BSWN-126	Balibayon SWIP	X	Surigao del Norte	Brgy. Rizal, Surigao	ⓧ	ⓧ	
474	BSWN-127	Apulang SWIP	X	Bukidnon	Kibave	ⓧ	ⓧ	
475	BSWN-128	Talao-ao SWIP	X	Agusan del Norte	Buenavista	ⓧ	ⓧ	
476	BSWN-129	Dumalagan SWIP	X	Agusan del Norte	Butuan City	ⓧ	ⓧ	
477	BSWN-130	Nintu-od SWIP	X	Agusan del Norte	Buenavista	ⓧ	ⓧ	
478	BSWN-131	Malapong SWIP	X	Agusan del Norte	Buenavista	ⓧ	ⓧ	
479	BSWN-132	Talaganahao SWIP	X	Agusan del Norte	Buenavista	ⓧ	ⓧ	
480	BSWN-133	Kitao-ao SWIP	X	Bukidnon	Kitao-ao	ⓧ	ⓧ	
481	BSWN-134	San Rafael	XI	Davao Oriental	Cateel	ⓧ	ⓧ	
482	BSWN-135	Buksay-pait SWIP	XI	South Cotabato	Tantangan	ⓧ	ⓧ	
483	BSWN-136	Libudon SWIP	XI	Davao Oriental	Mati	ⓧ	ⓧ	
484	BSWN-137	Dumadalig SWIP	XI	South Cotabato	Tantangan	ⓧ	ⓧ	
485	BSWN-138	Libasan SWIP	XI	Davao del Norte	Mabunturan	ⓧ	ⓧ	
486	BSWN-139	Florida SWIP	XI	Davao del Norte	Capalong	ⓧ	ⓧ	
487	BSWN-140	Daunan SWIP	XI	Davao del Norte	Montevista	ⓧ	ⓧ	
488	BSWN-141	San Nicolas SWIP	XI	Davao del Sur	Digos	ⓧ	ⓧ	
489	BSWN-142	Bolton SWIP	XI	Davao del Sur	Malalag	ⓧ	ⓧ	
490	BSWN-143	Pedtap SWIP	XII	North Cotabato	Cabacan	ⓧ	ⓧ	
491	BSWN-144	Looy SWIP	XII	Haguindanao	South Upi	ⓧ	ⓧ	

LIST OF CANDIDATE PROJECTS FOR THE JICA SWM MASTER PLAN STUDY

⊗ : data available
 x : not available

Agency No.	Project Name	Region	Province Name	Municipality Name	Present Status		
					Pre-F/S	F/S	D/D
492 BSW-145	Dalingawan SWIP	XII	North Cotabato	Pikit	⊗	⊗	⊗
493 BSW-146	Tinibtiban SWIP	XII	North Cotabato	Pikit	⊗	⊗	⊗
494 BSW-147	Busok SWIP	XII	Sultan Kudarat	Bagumbayan	⊗	⊗	⊗
495 BSW-148	Kalandagan SWIP	XII	Sultan Kudarat	Tacurong	⊗	⊗	⊗
496 BSW-149	Lancheta SWIP	XII	Sultan Kudarat	Tacurong	⊗	⊗	⊗
497 BSW-150	New Carmen SWIP	XII	Sultan Kudarat	Tacurong	⊗	⊗	⊗
498 BSW-151	Kalagakit SWIP	XII	North Cotabato	Pigeawayan	⊗	⊗	⊗
499 BSW-152	San Juan Overflow Dam	VIII	Southern Leyte	San Juan			⊗

LIST OF CANDIDATE SWIX PROJECTS FOR POST-EVALUATION STUDY

Implementing Agency	Project Name	Region	Province	Location	Municipality	Present Status	Year of Completion	Purpose	Construction Cost (Peso 10 ⁶)	Dam Type	Dam Height (meter)	Reservoir Availability Capacity (MCM)	Data #2
1 NIA	Ilihan SWIP	VII	Bohol	Tubigon	A	A	1982	Irrigation (150ha)	5.000	Earthfill	22.0	0.85	D/D
2 DPWH	Palacol Dam & Reservoir	III	Pampanga	Floridablanca	B	B	1983	Irrigation (76ha)	1.500	Boulder Filled	1.5	0.002	
3 BSW	Darapidap SWIP	II	Nueva Vizcaya	Aritao	A	A	1983	Irrigation (70ha) Fishery	1.804	Earthfill	12.9		F/S, D/D
4 BSW	Malinao SWIP	VIII	Southern Leyte	Sogod	A	A	1984	Irrigation	2.238		9.0		F/S, D/D
5 FDB	Pasig Timbu Watershed Rehab. Project	III	Pampanga	Potrac	A	A	1984	Watershed Management	1.405				D/D
6 NEA	Hantayupan Falls SWIP	VII	Cebu	Barili	A	A	1985	Mini-hydropower	6.219	Adobe Stone Masonry			F/S, D/D
7 PSDC	Bacnotan SWIP	I	La Union	Bacnotan	A	A	1985	Irrigation	7.560	Adobe Stone Masonry			F/S
8 DPWH	Caulanan Diversion Dam	III	Pampanga	Floridablanca	B	B	1985	Irrigation	0.720	Earthfill			
9 DPWH	San Ramon Dam & Reservoir Project	III	Pampanga	Floridablanca	A	A	1987	Irrigation	2.558	Earthfill	13.7		F/S, C/D
10 DPWH	Calangasaan SWIP Phase I	VII	Bohol	Ubay	A	A	1988	Irrigation	3.163	Earthfill	12.5	0.1685	F/S

Note: #1 : Present Status;

A: Constructed and functioning

B: Constructed but damaged

C: Under-construction

#2 : Available Data;

F/S: Feasibility Study Report

D/D: Detailed Design Engineering Report

C/D: Construction Drawings

添付資料-8

第2回月例作業進捗状況会議議事録
(1988年11月15日)

MINUTES OF SECOND MONTHLY PROGRESS MEETING
BETWEEN
JICA MASTER PLAN STUDY TEAM
AND
SWIM TECHNICAL WORKING GROUP (TWG)

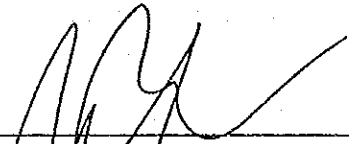
Series : 2
Date : November 15, 1988
Time : 2:00 p.m. to 4:30 p.m.
Place : Meeting Room, JICA SWIM Office
Perlas Bldg., Quezon Ave., Quezon City
Attendants : See attached list

Summary of Discussion

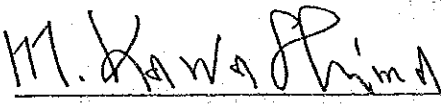
The meeting was held with the following agenda and presided by Mr. Rivera of NIA in the absence of the Chairman, Mr. Fernando S. Nabong.

- 1) Activities of JICA Study Team in November 1988
 - 2) Questionnaire on the SWIM Projects selected for Post Evaluation Study
 - 3) Candidate Projects for Construction under 14th OECF Loan
 - 4) Any other business.
1. On the first agenda, the JICA Study Team reported the major activities undertaken by the Team for the month of November, 1988. The Team likewise informed TWG about the on-going site inspection of SWIM Projects that would be intended for post-evaluation of the completed projects. The Chairman then requested the Team to report their findings to the Japanese Embassy with regards to security condition encountered during their field inspection.
 2. The JICA Study Team distributed the questionnaire on the SWIM Projects selected for post-evaluation study and requested each agency concerned to accomplish and submit these forms by the end of November 1988.

3. Mr. Tomas L. Buen of PMO-SWIM presented the list of candidate projects for construction under 14th OECF Loan. It was confirmed that all the candidate projects had been included in the present list of the JICA master plan study which comprised of 501 projects in the total. Mr. Buen requested the JICA Study Team to include these projects in the list for the master plan study until these projects would be finally decided for implementation under OECF Loan.
4. The Chairman requested the JICA Study Team to consider the overseas training of the TWG/Counterpart personnel during the course of the master plan study. The JICA Study Team pointed out that the training program was not included in the Implementation Arrangement for the Study. However, the Team said that the request would be conveyed to JICA Office.
5. The JICA Study Team said that none of the reports were additionally submitted after the Meeting on the Inception Report dated October 28, 1988; therefore, the review of the existing SWIM projects would be made for only 239 out of 501 candidate projects.
6. Both parties agreed on the date of next meeting which will be held on December 16, 1988 at 9:00 a.m.

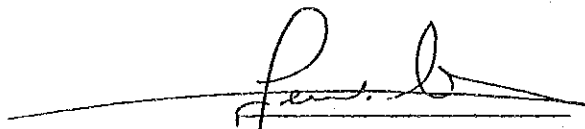


TOMAS L. BUEN
Project Engineer II
PMO-SWIM



MOTOYOSHI KAWASHIMA
Co-Team Leader
JICA Study Team

Certified by:



FERNANDO S. NABONG
Project Manager
PMO-SWIM

MONTHLY PROGRESS MEETING
BETWEEN
JICA MASTER PLAN STUDY TEAM
AND
SWIM TECHNICAL WORKING GROUP (TWG)

Series : 2
Date : November 15, 1988
Place : Meeting Room of JICA SWIM Project Office
ATTENDEES :

JICA STUDY TEAM:

1. Motoyoshi Kawashima
2. Kenichiro Kondo
3. Hironichi Sekine
4. Seiji Yakushiji
5. Naoki Ariga

PMO-SWIM/DPWH

1. Tomas L. Buen

FSDC/DA

1. Rommel Juat

NIA

1. Avelino S. Rivera
2. Isidro R. Digal
3. Clemente T. Alanano

BFAR

1. Demetrio M. Gracia

NWRB

1. Luis M. Sosa
2. Melchor O. Baltazar
3. Francis Hilarie

DPWH/PS

1. Jose C. Guanzon

FMB

1. Sergio Abuan

添付資料-9

第3回月例作業進捗状況会議議事録
(1988年12月16日)

MINUTES OF THIRD MONTHLY PROGRESS MEETING

BETWEEN

JICA MASTER PLAN STUDY TEAM

AND

SWIM TECHNICAL WORKING GROUP (TWG)

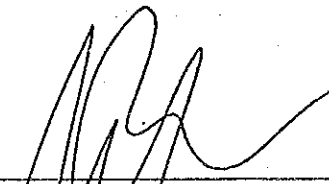
Series : 3
Date : December 16, 1988
Time : 9:30 a.m. to 11:00 a.m.
Place : Meeting Room, JICA SWIM Office
Perlas Bldg., Quezon Ave., Quezon City
Attendants : See attached list

Summary of Discussion

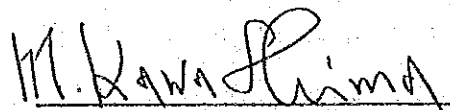
The meeting was held with the following agenda and presided by Mr. Luis M. Sosa of NWRB in the absence of the Chairman, Mr. Fernando S. Nabong.

- (1) Activities of JICA Study Team in Phase I Study period
 - (2) Major findings of field work in the Phase I Study
 - (3) Further work schedule in the Phase I Study
 - (4) Request to counterpart personnel during the absence of JICA Study Team
 - (5) Any other business.
1. JICA Study Team distributed a report titled "Field Note on Phase I Study" in the meeting and briefed the outline of the report to the attendants. The report included explanations on the above topics with statistical tables which were derived from computerized analysis of the existing data and information on the SWIM Projects.
 2. The Chairman asked each agency to comment on the report presented by the JICA Study Team. However, there was no serious comments on the report. The report was basically accepted by TWG-SWIM members.

3. The JICA Study Team was suggested to re-evaluate the cost and benefits on the completed projects under current economic situation and to reflect the updated ones on the post-evaluation study. The JICA Study Team pointed out, however, that the data and information required for such study were insufficient at present and such re-evaluation study would be very difficult to undertake properly under the present state of data availability, and said that the re-evaluation study would be made only for the projects sufficiently supported by data and information.
4. The JICA Study Team requested the agencies to study the report more in detail and to make comments, if any, by December 21, 1988.
5. The TWG-SWIM members from each agency agreed to assign the counterpart personnel to the Project continuously even during the absence of the Team from December 23, 1988. JICA Study Team would provide the counterpart personnel with the guidelines of further data collection and review of the existing data and reports on the SWIM Projects.




TOMAS L. BUEN
Project Engineer II
PMO-SWIM



for MOTOYOSHI KAWASHIMA
Co-Team Leader
JICA Study Team

Certified by:



FERNANDO S. NABONG
Project Manager
PMO-SWIM

LIST OF ATTENDANTS

Technical Working Group (TWG)

1. Luis M. Sosa (NWRB- Chairman)
2. Tomas L. Buen (PMO-SWIM)
3. Raul E. Tubianosa (PMO-SWIM)
4. Conrado Martin (BSWM)
5. Lucio Casera (BSWM)
6. Isidro Digal (NIA)
7. Clemente Alanano (NIA)
8. Valeriano Infante (NEA)
9. Hendrick Manegdeg (NEA)
10. Melchor Baltazar (NWRB)
11. Francis Hilarie (NWRB)
12. Sergio Abuan (FMB)
13. Demetrio Gracia (BFAR)
14. Rommel Juat (FSDC)
15. Aquilina Trinidad (PS/DPWH-for Mr. Guanzon)

JICA Study Team

1. Motoyoshi Kawashima
2. Takashi Kimijima
3. Naoki Ariga
4. Akira Honda
5. Hiromichi Sekine

添付資料-10

第4回月例作業進捗状況会議議事録
(1989年8月4日)

MINUTES OF FOURTH MONTHLY PROGRESS MEETING
BETWEEN
JICA MASTER PLAN STUDY TEAM
AND
SWIM TECHNICAL WORKING GROUP (TWG)

Series : 4
Date : August 4, 1989
Time : 2:00 p.m. to 4:30 p.m.
Place : Meeting Room, JICA SWIM Office
Perlas Bldg., Quezon Ave., O.C.
Attendants :

TECHNICAL WORKING GROUP (SWIM-TWG)

1.	Antonio A. Alpasan	DPWH MFC-SWIM (Chairman)
2.	Jose C. Guanzon	DPWH Planning
3.	Rogelio A. Flores	DPWH MFC-SWIM
4.	Cesar M. Magadia	BSWM
5.	Rommel R. Juat	FSDC
6.	Romeo De. Ocampo	FMB
7.	Clemente T. Alanano	NIA
8.	Valeriano Infante	NEA
9.	Francis B. Hilarie	NWRB
10.	Raul E. Tubianosa	DPWH MFC-SWIM
11.	Lourdes Santiago	DPWH MFC-SWIM

JICA STUDY TEAM / COUNTERPART

1. Motoyoshi KAWASHIMA
2. Naoki ARIGA
3. Hirohisa ISOGAI
4. Hiromichi SEKINE
5. Takashi KIMIJIMA
6. Ken-ichiro KONDO

SUMMARY OF DISCUSSION

The meeting was held with the following agenda and presided by Mr. Antonio A. Alpasan, the Chairman of SWIM-TWG.

- (1) Concept and definition of SWIM Projects
- (2) Guidelines for Screening or Qualification
- (3) Outline of Criteria for Priority Ranking
- (4) Outline of Basic Planning Criteria for SWIM Projects
- (5) Any other business

1. Concept and definition of SWIM Projects:

- (1) The Study Team explained the background of this issue to the body as follows:

In the Phase-I Study, 501 projects were listed as the candidate projects for further studies in Phase-II (Preparation of Criteria and Guidelines) and Phase-III (Formulation of Master Plan). These projects were submitted to the Study Team by different cooperating/implementing agencies through DPWH PMO-SWIM during the Phase-I Study.

The review conducted by the Study Team under Phase-I, indicates that these projects have a wide variety of functions and scale of development and are not always conforming to the present basic definition of SWIM Projects; i.e., those small scale water impounding dams with a structural height of not more than 30 m and/or a volume of storage not exceeding 50 MCM.

For preparation of criteria and guidelines, the Study Team, under Phase-II, proposed to the SWIM-TWG that the projects be categorized/classified into two i.e., Type-I with dam and reservoir and Type-II and Type-III, without dam and reservoir, as shown in ATTACHMENT-I.

- (2) The Study Team asked the SWIM-TWG, based on the above, whether the present definition shall be directly applied to the listed projects and then naturally some of those projects be

disqualified or the present definition be modified to qualify all of the listed projects as SWIM, and requested the SWIM-TWG to resolve this issue.

- (3) The SWIM-TWG have discussed the matters lengthily in a meeting held at the PMO-MFC/SWIM on August 3, 1989, and suggested the following to the Study Team in this meeting for further discussions:

Definition of SWIM Projects

The present definition of SWIM shall not be changed.

However, the following implementing guidelines shall be considered for qualifying the proposed projects:

- (1) The project shall preferably be a multi-purpose water resources development on a small scale and at the same time, provide a first line of defense against floods.
- (2) The project shall include small scale water-impounding dam which have structural height of not more than 30 m and/or a volume of storage not exceeding 50MCM.
- (3) The project shall include both engineering and vegetative protection works in the watershed area of the prospective dam and reservoir.
- (4) The watershed area to be protected shall not be more than 100 km².
- (5) The irrigation development area shall not be more than 500 ha.
- (6) The installed capacity of hydropower generation shall not be more than 5,000 KW.
- (7) The construction cost of dam and its appurtenant structures shall not exceed 50 million pesos (at 1989 constant price).

Note: In case of multi-purpose projects, the principal feature of the project should be properly identified in order to establish the priority of water utilization.

Classification of SWIM Projects

Only one type should be considered, adhering to the basic definition of SWIM Projects.

The above implementing guidelines shall be applied to those projects proposed by DPWH, NIA and BSWM. The projects that are not conformable to the above guidelines, shall not be qualified as SWIM, and those disqualified projects will be withdrawn from the candidate projects for the Master Plan Study.

- (4) The above suggestion was preliminarily discussed between the SWIM-TWG and the JICA Study Team. The JICA Study Team pointed out that in this case, a considerable part of the listed projects may not qualify as SWIM Projects.

The JICA Study Team said that the above initial result of discussion will be conveyed to the JICA office as it will require some changes in the agreed "Plan of Operation".

2. Guidelines for Screening or Qualification:

- (1) The agreed general guidelines for screening or qualification of SWIM projects are shown in ATTACHMENT-2.
- (2) The agreed guidelines will be incorporated in the "Basic Planning Criteria".

3. Criteria for Priority Ranking:

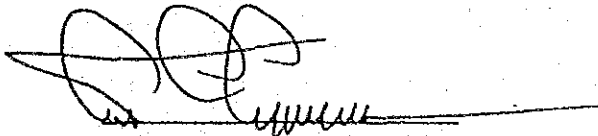
- (1) The agreed procedures for priority ranking are illustrated on ATTACHMENT-3.
- (2) The agreed procedures will however be modified if necessary after discussions with the JICA office on the concept and definitions of SWIM.

4. Basic Planning Criteria for SWIM Projects

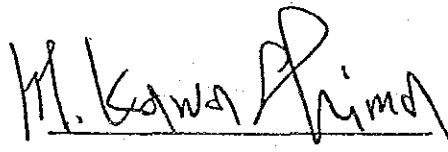
- (1) The outline of the "Basic Planning Criteria" proposed by the JICA Study Team was basically accepted by SWIM-TWG.
- (2) The agreed outline will however be modified if necessary after discussions with the JICA office on the concept and definitions of SWIM.

5. Others

- (1) Fifth monthly progress meeting between SWIM-TWG and the JICA Study Team will be held on August 17, 1989.



ANTONIO A. ALPASAN
Chairman of SWIM-TWG
DPWH MFC-SWIM



MOTOYOSHI KAWASHIMA
Co-Team Leader
JICA Study Team

ATTACHMENT-1

CLASSIFICATION OF SWIM PROJECTS

The present SWIM projects categorized into three types as follows:

BASIC OBJECTIVE : FLOOD CONTROL		
WITH DAM AND RESERVOIR	WITHOUT DAM AND RESERVOIR	
MAJOR OBJECTIVES		
RURAL DEVELOPMENT INCLUDING IRRIGATION, MINI-HYDROPOWER, INLAND FISHERIES, AND WATERSHED DEVELOPMENT	SOIL EROSION CONTROL AND WATER SHED PROTECTION AND MANAGEMENT	RURAL ELECTRIFICATION
IMPLEMENTING AGENCY		
DPWH NIA BSWM	FMB	NEA
TYPE-I	TYPE-II	TYPE-III

Handwritten signature and initials

ATTACHMENT-2

GENERAL GUIDELINES
FOR
SCREENING OR QUALIFICATION
OF
SMALL WATER IMPOUNDING MANAGEMENT (SWIM) PROJECTS

1. The proposed project must be conformable to the definitions, purposes and objectives of the SWIM projects.
2. The proposed project must be conformable to the provisions of the "Philippines Water Code" regarding appropriation of water.
3. The proposed project should be supported by in depth technical studies which cover necessary study items, and must be verified to be technically sound for implementation.
4. The proposed project must show acceptable economic viability in terms of EIRR, B/C and NPV.
5. An environmental impact study must be carried out before the proposed project be implemented and must verify that the project should not give any serious environmental impacts to the surrounding areas.
6. The proposed project must be acceptable to the people of the areas to be influenced. In particular, the project should not have land acquisition problem.
7. The proposed project must be financially viable and the project beneficiaries can afford to pay the annual charges for operation and maintenance of the projects.
8. Any other projects that be considered necessary under special administrative requirement.

PROCEDURE FOR PRIORITY RANKING

Candidate Projects:	501
with Data	: 331
Type I	: 257
Type II	: 27
Type III	: 47
without Data	: 170
Type I	: 131
Type II	: 39
Type III	: 0

Qualification of Projects

Projects to be Reviewed

(331 Projects with Data minus Disqualified Projects)

Review of Dam Cost
 Unification of Estimate Method
 Review of Unit Cost
 Unification of Estimate Time
 Note: Work quantity shall not be revised in principle.

Review of Project Benefit
 Unification of Estimate Method
 Setting up of Unit Benefit
 Unification of Estimate Time
 Note: Benefits from inland fishery and watershed development shall not be considered.

Evaluation of Technical Soundness
 Dam Scale
 Storage Capacity
 Unit Construction Cost of Dam
 Unit Cost of Reservoir Water
 Effect of Flood Control
 Degree of Technical Difficulties for Construction

Re-calculation of EIRR
Evaluation of Economic Viability
 Economic Effect (EIRR)
 Increase of Employment
 Number of Beneficiaries
 Repayability of Beneficiaries

Evaluation of Social Impact
 Poverty Level of the Area
 Relation with CARP
 Environmental Impact
 Land Acquisition and Land Compensation

Preliminary Priority Ranking
 (Categorization of the Projects into A and B Groups)

Discussion with TWG : Adjustment of Grouping
 (1) Reasonable Share among the Implementing Agencies
 (2) Equal Distribution of Projects over the Country

-Review of the Projects from Technical Point of View based on the "Planning Criteria"
 -Preparation of the Implementation Program.

10-YEAR ACTION PROGRAM OF THE SWIM PROJECTS

Preparation of Study Plan for the Projects without Data (170 projects)

添付資料-11

第5回月例作業進捗状況会議議事録
(1989年8月17日)

MINUTES OF FIFTH MONTHLY PROGRESS MEETING
BETWEEN
JICA MASTER PLAN STUDY TEAM
AND
SWIM TECHNICAL WORKING GROUP (TWG)

Series : 5
Date : August 17, 1989
Time : 2:15 p.m. to 3:45 p.m.
Place : Meeting Room, JICA SWIM Office
Perlas Bldg., Quezon Ave., O.C.
Attendants :

TECHNICAL WORKING GROUP (SWIM-TWG)

1.	Antonio A. Alpasan	DPWH MFC-SWIM (Chairman)
2.	Luis Sosa	NWRB (Co-Chairman)
3.	Jose C. Guanzon	DPWH Planning
4.	Rogelio A. Flores	DPWH MFC-SWIM
5.	Conrado D. Escobar	DPWH MFC-SWIM
6.	Pedro Razon	DPWH BOD
7.	Isidro Digal	NIA
8.	Clemente T. Alanano	NIA
9.	Rodolfo Lucas	BSWM
10.	Valeriano Infante	NEA
11.	Melchor Baltazar	NWRB
12.	Francis B. Hilarie	NWRB
13.	Romeo De. Ocampo	FMB
14.	Sergio Abuan	FMB
15.	Rommel R. Juat	FSDC
16.	Raul E. Tubianosa	DPWH MFC-SWIM
17.	Blesilda Gonzales	DPWH MFC-SWIM

JICA STUDY TEAM / COUNTERPART

1.	Motoyoshi KAWASHIMA
2.	Naoki ARIGA
3.	Hirohisa ISOGAI
4.	Hiromichi SEKINE
5.	Takashi KIMIJIMA
6.	Ken-ichiro KONDO
7.	Akira HONDA
8.	Tadaharu Murono
9.	Namio OYAMA

SUMMARY OF DISCUSSION

The meeting was started at 2:15 p.m. with Mr. Antonio A. Alpasan as the Chairman. The following was discussed:

- (1) Minutes of 4th Monthly Progress Meeting
- (2) Work schedule for preparation of Interim Report
- (3) Any other business

1. Minutes of 4th Monthly Progress Meeting:

- (1) The draft minutes of 4th monthly progress meeting was approved by all the members of SWIM-TWG as corrected.

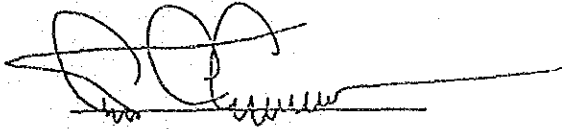
2. Work schedule for preparation of Interim Report:

- (1) The JICA Study Team presented the following work schedule to the body:

Aug. 20 (Sun)	:	M/S Kawasima/Ariga/Sekine leaving for Japan
Aug. 20 - 31	:	(1) discussion with JICA, Tokyo (M/S Kawasima/Ariga/Sekine) (2) Technical discussion with each implementing/cooperating agency on draft "Basic Planning Criteria" (other JICA Study Team members)
Sept. 06 (Wed)	:	Submitting "Interim Report (Draft)" to DPWH-MEC/SWIM
Sept. 11 (Mon)	:	Mr. Sakamoto (Team Leader) arriving at Manila
Sept. 13 (Wed)	:	Discussion with TWG on Interim Report
Sept. 17 (Sun)	:	Mr. Sakamoto leaving for Japan

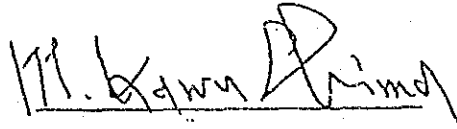
- (2) The JICA Study Team will distribute a full set of the draft "Basic Planning Criteria" to each agency concerned on August 21, 1989. The JICA Study Team will visit each agency to discuss the said criteria in detail during the period of August 22 - 31. The

schedule of visits will be informed to each agency on August 18
and 21.



ANTONIO A. ALPASAN
Chairman of SWIM-TWG

DPWH MEC-SWIM



MOTOYOSHI KAWASHIMA

Co-Team Leader

JICA Study Team



添付資料-12

第6回月例作業進捗状況会議議事録
(1989年10月9日)

MINUTES OF SIXTH MONTHLY PROGRESS MEETING

BETWEEN

JICA MASTER PLAN STUDY TEAM

AND

SWIM TECHNICAL WORKING GROUP (TWG)

Series : 6
Date : October 9, 1989
Time : 3:00 p.m. to 4:45 p.m.
Place : Meeting Room, JICA SWIM Office
Perlas Bldg., Quezon Ave., Q.C.

Attendants :

TECHNICAL WORKING GROUP (SWIM-TWG)

1. Antonio A. Alpasan	DPWH MFC-SWIM (Chairman)
2. Jose C. Guanzon	DPWH Planning
3. Rogelio A. Flores	DPWH MFC-SWIM
4. Conrado D. Escobar	DPWH MFC-SWIM
5. Raul E. Tubianosa	DPWH MFC-SWIM
6. Clemente T. Alanano	NIA
7. Ricarte A. Melchor	BSWM
8. G. Sondia	NEA
9. I. D. Penaranda	NWRB
10. Francis B. Hilarie	NWRB
11. Romeo de Ocampo	FMB
12. Sergio Abuan	FMB
13. Rommel R. Juat	FSDC
14. Demetrio M. Gracia	BFAR
15. Victor Villanueva	BSWM

JICA STUDY TEAM / COUNTERPART

1. Motoyoshi KAWASHIMA	Co-Leader
2. Naoki ARIGA	Project Evaluation
3. Hiromichi SEKINE	Irrigation / Drainage
4. Takashi KIMIJIMA	Agriculture / Soil
5. Akira HONDA	Structural Planning
6. Tadaharu MURONO	Institutional Planning

SUMMARY OF DISCUSSION

The meeting was started at 3:00 p.m. with Mr. Antonio A. Alpasan presiding as Chairman. The following were discussed:

- (1) Minutes of Previous Meetings
- (2) Institutional Studies on Implementing Procedures and Management for the SWIM Projects
- (3) Work Schedule of Phase-III
- (4) Other Matters

1. Minutes of Previous Meetings:

- (1) Copies of the minutes of the previous meetings were furnished the members of the TWG as follows:
 - (a) 5th Monthly Progress Meeting on August 17, 1989, and
 - (b) Interim Report Meeting on September 20, 1989

2. Institutional Studies on Implementing Procedures and Management for the SWIM Projects:

- (1) Mr. Tadaharu Murono, Institutional Planner of the JICA Study Team, presented and explained to the body the following topics:
 - (a) Procedures for implementation of the SWIM Projects
 - (b) Roles and responsibilities of the agencies concerned, and
 - (c) Organization and functions of beneficiaries' cooperatives

Copies of the brief reports on the above were distributed to all the TWG members through DPWH-MFC/SWIM on October 6, 1989.


- (2) The proposed concept and procedures in general were basically accepted by the body, with some comments/suggestions.
- (3) The JICA Study Team said that Mr. T. Murono will complete his field assignment on October 13, 1989 and suggestions/comments on the institutional aspects given by the body would be fully incorporated in the draft final report of the Study.

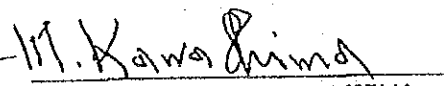
3. Work Schedule of Phase-III:

- (1) The proposed work schedule of Phase-III (See Attachment-1) was accepted by the body.
- (2) The JICA Study Team will prepare the "Explanatory Note on Preliminary Priority Ranking" by October 25, 1989, and will be discussed at the next 7th Monthly Progress Meeting to be held on November 6, 1989.
- (3) The JICA Study Team will also prepare the "Field Notes on Phase-III" which will comprise the initial results of the studies under Phase-III, by November 17, 1989, and it will be discussed at the 8th Monthly Progress Meeting to be held on November 27, 1989.

4. Other Matters:

- (1) The JICA Study Team requested FMB through the TWG to estimate the cost of watershed protection and management for each of the 230 qualified projects. The request was accepted by the body, and FMB said that the cost estimates will be completed before the Team will leave for Japan (by the end of November 1989).
- (2) The JICA Study Team reported to the body that Mr. H. Isogai (Structural Design Engineer) and Mr. K. Kondo (Hydrologist) completed their assignment and left on September 30, 1989.


ANTONIO A. ALPASAN
Chairman of SWIM-TWG
PMO-MFC/SWIM, DPWH


MOTOYOSHI KAWASHIMA
Co-Team Leader
JICA Study Team

Work Schedule for Phase III (Up to Nov.)

Work Items	Sept.	October	November
(1) Priority Ranking Study			
Preparation of Form	29		
Review of Construction Cost		10	<i>Cost for Watershed (FMB)</i>
Review of Benefit		10	
Estimation of IRR		13	
Preparation of Input Data		13	
Preliminary Priority Ranking and Preparation of Explanatory Note			25 ▲ Submit
(2) Technical Evaluation(230 projects)			
Preparation of Standard	29		
Preparation of Form	29		
Technical Evaluation		10	
Development Sequence and Required Cost		13	
Preparation of Project Profile			
(3) Guideline for Project Implementation			
Review, and Proposed Plan Application to M/P		12	
(4) Preparation of Field Note			
Adjustment of Priority Ranking			26 6
Preparation of Field Note			17 ▲ Submit
(5) Explanation of Field Note			24 30
(6) Discussion with TWG			
Guideline for Project Implementation		9 ▲	
Priority Ranking			6 ▲
Field Note			27 ▲

MK *AK*

添付資料-13

第7回月例作業進捗状況会議議事録
(1989年11月6日)

MINUTES OF SEVENTH MONTHLY PROGRESS MEETING
 BETWEEN
 JICA MASTER PLAN STUDY TEAM
 AND
 SWIM TECHNICAL WORKING GROUP (TWG)

Series : 7
 Date : November 6, 1989
 Time : 2:00 p.m. to 4:10 p.m.
 Place : Meeting Room, JICA SWIM Office
 Perlas Bldg., Quezon Ave., Q.C.
 Attendants :

TECHNICAL WORKING GROUP (SWIM-TWG)

1.	Antonio A. Alpasan	DPWH MFC-SWIM (Chairman)
2.	Luis Soza	NWRB (Co-Chairman)
3.	Toshiki Kawakami	JICA Flood Control Expert (DPWH)
4.	Rogelio A. Flores	DPWH MFC-SWIM
5.	Tomas L. Buen	DPWH MFC-SWIM
6.	Jose C. Guanzon	DPWH Planning
7.	Conrado D. Escobar	DPWH MFC-SWIM
8.	Raul E. Tubianosa	DPWH MFC-SWIM
9.	Lourdes Santiago	DPWH MFC-SWIM
10.	Elpidio Avena	DPWH BOD
11.	Isidro Digal	NIA
12.	Clemente T. Alanano	NIA
13.	Rodolfo Lucas	BSWM
14.	Valeriano Infante	NEA
15.	Melchor Baltazar	NWRB
16.	Francis B. Hilarie	NWRB
17.	Sergio Abuan	FMB
18.	Demetrio M. Gracia	BFAR

JICA STUDY TEAM / COUNTERPART

1.	Motoyoshi KAWASHIMA	Co-Leader
2.	Naoki ARIGA	Project Evaluation
3.	Hikomichi SEKINE	Irrigation / Drainage
4.	Takashi KIMIJIMA	Agriculture / Soil
5.	Akira HONDA	Structural Planning

SUMMARY OF DISCUSSION

The meeting was started at 2:00 p.m. with Mr. Antonio A. Alpasan presiding as the Chairman. The following were discussed:

- (1) Minutes of 6th Monthly Progress Meeting
- (2) "Explanatory Note on Preliminary Priority Ranking"
- (3) Other Matters

1. Minutes of Previous Meetings:

- (1) The Minutes of the 6th Monthly Progress Meeting was accepted by the member of SWIM-TWG.

2. "Explanatory Note on Preliminary Priority Ranking":

- (1) The JICA Study Team presented and explained to the body the following topics:
 - (a) Number of projects to be implemented during the plan period of 1991 - 2000
 - (b) Priority Ranking of SWIM projects
 - Allocation of merit points
 - Projects with less than 10% of EIRR
 - Classification of SWIM Projects into "A" and "B" Groups
 - (c) OECF-SWIM Candidate Projects
 - (d) Locally-funded SWIM projects for the year 1989-1990
 - (e) Regional Distribution of SWIM projects
 - (f) Total Fund Requirement
 - (g) Field Note and Schedule of 8th Monthly Progress Meeting
 - (h) Comments on "Explanatory Notes on Priority Ranking"

Copies of the "Explanatory Note on Priority ranking" were distributed to all the TWG members through DPWH-MFC/SWIM on October 27, 1989. The comments/questions on this "Explanatory Note" were submitted by NIA and NWRB to the JICA Study Team on

November 3, 1989. The JICA Study Team presented to the body an additional paper which dealt with the answers to these comments/questions. Discussions were made between the JICA Study Team and SWIM-TWG members in line with the papers the Study Team presented. The following were confirmed through discussions:

- (2) The JICA Study Team opined that all of 230 qualified SWIM projects can be implemented and completed within 10 years, in due consideration of the fund requirement and capability of agencies concerned. The Chairman said that he would look into the matter in consultation with the offices of planning and budgets, and would inform the Study Team accordingly within a week time.
- (3) Allocation of 10 points to administrative consideration which is construed as the "Relation with CARP" should be considered under the evaluation factor of "Social/Environmental Impacts", and additional 10 points would be given to the projects located in the priority provinces under infrastructure program of CARP for the purpose of ranking.
- (4) The projects with less than 10% of EIRR should be placed in the priority group of "B" and be re-studied during the initial stages of the 10 year period as suggested by the JICA Study Team.
- (5) Those projects with more than 10% of EIRR would be divided into two groups, "A" and "B", according to the total score calculated using agreed scoring system and half of the higher scored projects be grouped as "A" and the other half be grouped as "B".
- (6) The 230 projects under the JICA Master Plan Study include a total of 39 candidate projects for OECF-SWIM. For the purpose of master planning, these OECF-SWIM projects should be included in the JICA master plan study. However, the OECF-SWIM projects should be excluded from the project lists for priority ranking, because said projects will be reviewed and evaluated under the

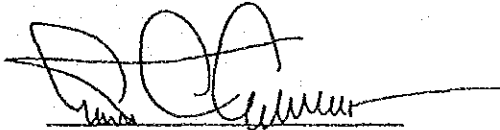
OECEP program, and shall be included in the priority group of "A" of the master plan study.

- (7) Implementation schedule of locally-funded projects for the years 1989 - 1990 will not be considered in the master plan study.
- (8) Classification of SWIM projects will not be re-adjusted for equitable regional distribution of the projects, however, in the preparation of the implementation program, due consideration should be made to achieve balanced distribution of projects so that construction works could progress not only in a particular region but simultaneously all over the country.
- (9) The total fund requirements including the costs for watershed protection and management as well as price contingencies will be given in the "Field Note"
- (10) The "Field Note" will be submitted to PMO-MEC/SWIM by November 17, 1989 and be discussed with SWIM-TWG at the 8th monthly progress meeting which is tentatively scheduled on November 27, 1989 to be attended by the Chairman of SWIM Committee, Mr. Romulo M. del Rosario.
- (11) In estimating the project costs for the master plan study, the costs for engineering services will be calculated on the basis of the following guideline given by NEDA:

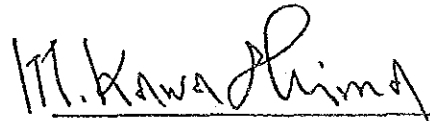
for feasibility study	:	3% of the direct cost
for detailed design	:	6% of the direct cost
for construction supervision	:	10% of the direct cost

3. Other Matters:

- (1) The project coordinator, Mr. Raul E. Tubianosa, explained to the body the field inspection schedule for period of November 7 - 14, 1989.



ANTONIO A. ALPASAN
Chairman of SWIM-TWG
DPWH MEC-SWIM



MOTOYOSI KAWASHIMA
Co-Team Leader
JICA Study Team

添付資料-14

第8回月例作業進捗状況会議議事録
(1989年11月27日)

MINUTES OF EIGHTH MONTHLY PROGRESS MEETING
BETWEEN
JICA MASTER PLAN STUDY TEAM
AND
SWIM TECHNICAL WORKING GROUP (TWG)

Series : 8
Date : November 27, 1989
Time : 1:00 p.m. to 2:20 p.m.
Place : Mayon Room at Century Park Sheraton, Manila

Attendants :

TECHNICAL WORKING GROUP (SWIM-TWG)

- | | | |
|-----|-----------------------|---------------------------------|
| 1. | Romulo M. del Rosario | Undersecretary, DPWH (Chairman) |
| 2. | Antonio A. Alpasan | DPWH MFC-SWIM |
| 3. | Rogelio A. Flores | DPWH MFC-SWIM |
| 4. | Tomas L. Buen | DPWH MFC-SWIM |
| 5. | Jose C. Guanzon | DPWH Planning |
| 6. | Conrado D. Escobar | DPWH MFC-SWIM |
| 7. | Raul E. Tubianosa | DPWH MFC-SWIM |
| 8. | Lourdes Santiago | DPWH MFC-SWIM |
| 9. | Isidro Digal | NIA |
| 10. | Clemente T. Alanano | NIA |
| 11. | Sumio Oishi | NIA (Expert) |
| 12. | Rodolfo Lucas | BSWM |
| 13. | Rommel Juat | FSDC/DA |
| 14. | Melchor Baltazar | NWRB |
| 15. | Francis B. Hilarie | NWRB |
| 16. | Romeo de Ocampo | FMB |
| 17. | Sergio Abuan | FMB |
| 18. | Roberto Aquda | FMB |
| 19. | Demetrio M. Gracia | BFAR |

JICA STUDY TEAM / COUNTERPART

- | | | |
|----|---------------------|-----------------------|
| 1. | Tadashi SAKAMOTO | Team Leader |
| 2. | Motoyoshi KAWASHIMA | Co-leader |
| 3. | Naoki ARIGA | Project Evaluation |
| 4. | Hiromichi SEKINE | Irrigation / Drainage |
| 5. | Takashi KIMIJIMA | Agriculture / Soil |
| 6. | Akira HONDA | Structural Planning |



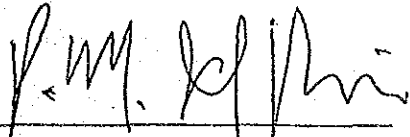
SUMMARY OF DISCUSSION

The meeting was presided by Mr. Romulo M. del Rosario, Undersecretary of DPWH and Chairman of the SWIM Committee. The Chairman explained to the body the purpose of the meeting. After the explanation, the Chairman requested Mr. Tadashi SAKAMOTO, Leader of the JICA Study Team, to present the contents of the "Field Note on Phase-III". After the presentation of Mr. SAKAMOTO, the Chairman requested for comments from the body.

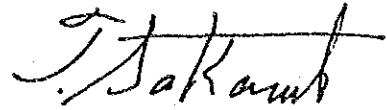
The following were discussed and confirmed:

- (1) Initial results of the Phase-III study described in the "Field Note" were fully accepted by the SWIM-TWG.
- (2) All of 230 qualified SWIM projects are scheduled to be implemented and completed within 10 year period under the Study.
- (3) The "Draft Final Report" will be submitted to PMO-MFC/SWIM by February 19, 1990. The discussion on the "Draft Final Report" will be held between the Team and SWIM-TWG during the period of February 19 - 25, 1990.
- (4) In the "Draft Final Report", the JICA Study Team will indicate the annual fund requirement of each implementing /Cooperating agency for implementation of the works for their specific purposes. The Team will also describe the role and responsibility of the cooperating agencies in the "Draft Final Report".
- (5) Based on the request from the SWIM-TWG, the Chairman asked the JICA Study Team of the possibility of receiving some more trainees particularly among the TWG members under the

JICA Training Program in Japan during the remaining study period until March 1990. The JICA Study Team said that the request would be conveyed to the JICA Office.



Romulo M. dea Rosario
Chairman of SWIM Committee
Undersecretary, DPWH



Tadashi SAKAMOTO
Team Leader
JICA Study Team

添付資料-15

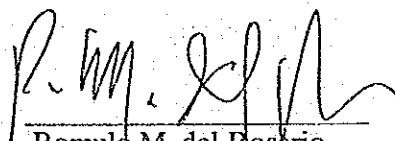
ドラフト・ファイナル・レポートに関する会議議事録
(1990年2月22日)

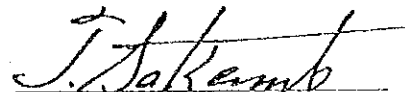
MINUTES OF MEETING
ON
DRAFT FINAL REPORT
FOR
MASTER PLAN STUDY ON THE SWIM PROJECTS

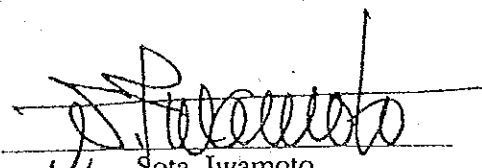
1. DATE : February 21, 1990
1:00 p.m. to 2:30 p.m.
2. PLACE : Mayon Room at Century Park Sheraton, Manila
3. ATTENDANTS : See Attached Sheet
4. SUMMARY OF DISCUSSION:

The meeting was presided over by Mr. Romulo M. del Rosario, Undersecretary of DPWH and Chairman of the SWIM Committee. The Chairman explained to the body the purpose of the meeting. After the explanation, the Chairman requested Mr. Tadashi SAKAMOTO, Leader of the JICA Study Team, to present the contents of the "Draft Final Report" which was distributed to the SWIM-TWG members on 19-20 February, 1990. After the presentation of Mr. SAKAMOTO, the Chairman requested for comments from the body and various discussions were made between the JICA Study Team and the SWIM-TWG. The following were confirmed through discussions:

- (1) The "Draft Final Report" in principle is acceptable to the SWIM-TWG.
- (2) The SWIM-TWG members will review in detail the "Draft Final Report" and the PMO-MFC/SWIM will submit the consolidated comments/suggestions to the JICA Study Team through the JICA Philippine Office on or before March 15, 1990. The JICA Study Team will prepare the Final Report, incorporating the comments/suggestions of the SWIM-TWG, by the end of April, 1990.


Romulo M. del Rosario
Undersecretary, DPWH and
Chairman of SWIM Committee


Tadashi Sakamoto
Leader
JICA Study Team


Sota Iwamoto
Chairman of JICA Advisory Committee

February 22, 1990

List of Attendants

SWIM Committee

- | | |
|--------------------------|--|
| 1. Romulo M. del Rosario | Undersecretary, DPWH, and Chairman of SWIM Committee |
| 2. Edmundo V. Mir | Undersecretary, DPWH |

Technical Working Group (TWG)

- | | |
|------------------------|-------------------------------|
| 1. Antonio A. Alpasan | PMO-MFC/SWIM, Chairman of TWG |
| 2. Rogerio A. Flores | PMO-MFC/SWIM, |
| 3. Tomas L. Buen | PMO-MFC/SWIM, |
| 4. Raul E. Tubianosa | PMO-MFC/SWIM, |
| 5. Lourdes Santiago | PMO-MFC/SWIM, |
| 6. Luis M. Sosa | NWRB, Co-chairman of TWG |
| 7. Melchor Baltazar | NWRB |
| 8. Francis Hilarie | NWRB |
| 9. Isidro Digal | PDD/NIA |
| 10. Clemente Alanano | PDD/NIA |
| 11. Sumio Oishi | JICA Expert/NIA |
| 12. Romeo de Ocampo | WMD/FMB |
| 13. Roberto Aguda | WMD/FMB |
| 14. Demetrio Gracia | BFAR |
| 15. Rommel Juat | PMO-SWIM/DA |
| 16. Joseph Reytana | PMO-SWIM/DA |
| 17. Rodolfo Lucas | SCD/BSWM |
| 18. Cesar Magadia | SCD/BSWM |
| 19. Noel G. Hernandez | NEA |
| 20. Romeo B. Indiongco | NEA |
| 21. Jose Guanzon | Planning Services/DPWH |

JICA Advisory Committee

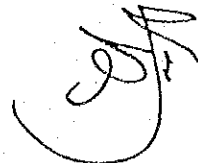
- | | |
|---------------------|-------------------------------------|
| 1. Sota Iwamoto | Chairman of JICA Advisory Committee |
| 2. Atsushi Hanatani | JICA, Head Office |

JICA Study Team

- | | |
|---------------------|-------------------------|
| 1. Tadashi Sakamoto | Team Leader |
| 2. Naoki Ariga | Project Evaluation |
| 3. Hiromichi Sekine | Irrigation and Drainage |

 AT - 73





JICA