ANNEX 11

MANUALS AND CAMPAIGN TOOL FOR IA STRENGTHENING

THE STUDY

ON

THE IRRIGATORS ASSOCIATION STRENGTHENING PROJECT IN

NATIONAL IRRIGATION SYSTEMS

ANNEX 11

MANUALS AND CAMPAIGN TOOLS FOR IA STRENGTHENING

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ANNEX 11 MANUALS AND CAMPAIGN TOOLS FOR IA STRENGTHENING

1 Manuals

1.1 Framework of Manuals

The existing manuals and modules of 45 sets prepared by IDD, SMD, Project Offices of previous irrigation development projects, and other donor agencies were collected, reviewed and examined (Annex 1, Preliminary Manual). Most manuals were prepared for the use of NIA's staff and trainers. There were little materials on the manuals for the utilization of IAs and farmers, and generally there were none for specific strengthening of IA's activities.

A need assessment, taking into consideration the weaknesses of both NIA and IA was made. This was supplemented with bilateral discussions with NIA counterparts. As a result of this process, the target manual users for IA strengthening were identified for both NIA and IA farmer members. The composition and contents of the manuals were designed as follows:

- (a) IA Strengthening Module (for trainers use)
 - Introduction
 - NISO-IA management module
 - Guide for Project Cycle Assistance for IA strengthening
 - Directory of existing manuals and modules
- (b) Steward of Water, A guide for Farmers (for IA member farmers)
 - Stewardship of water
 - Farmer's guide to managing the irrigation system
 - Attachment (key forms and references)
- (c) Maintenance and Rehabilitation Guide for Irrigators Association Members (for IA member farmers)
 - First step in implementing maintenance and rehabilitation
 - Maintenance
 - Rehabilitation
 - Important basic tips on construction works

1.2 Manual Contents

Most of the contents, with the exception of the reference materials, of one set for trainers and two sets for IA farmer members were drafted during the field survey. These manuals were verified and finalized, applying the comments from NIA's field staff and IA members during.

1.2.1 IA Strengthening Module (for trainers use, Ref. Table 1.1)

The manual covers the whole spectrum of activities in pre-irrigation, irrigation and post-irrigation during the entire cropping seasons (wet and dry seasons). The activities of the NISOs and IAs are inter-related, and different level of organizations and persons that need to be closely coordinated are involved in the implementation of the activities. At the IA level, the hierarchy starts from federation of IA (FIA) as the apex organization. This moves down at the secondary level, comprising several IAs, and finally at the tertiary level are TSAGs and their members. Each level's input becomes an output at a higher level, and the process is repeated to continuously maintain uninterrupted flow of each step to achieve effective water delivery and distribution, thus ensuring higher yields and collection of ISF.

The module focused on the flow of IA management, comprising stepwise activities as shown in Figure 1.1. The step-by-step process was guided by the following contents:

- Objectives
- Outputs with respective reference material
- Procedural activities referred by each output
- Input requirement
- Pre-conditions
- Technical information for key issues
- Source of further information (reference)

The NIA staff and trainers are expected to apply the module for technically assessing IA activities and diagnosing weaknesses of IA management.

Guide for Project Cycle Assistance for IA strengthening is aimed at applying participatory assessment of IA activities using PCM method. The guide covers among others, a brief on PCM, guiding instruction for facilitation, and monitoring and evaluation through IA functionality survey.

Directory of existing manuals and modules is a list of manuals and modules with brief contents and comments. The directory answers further technical requirement for NIA staff and trainers.

1.2.2 Steward of Water, A guide for Farmers, Ref. Table 1.2)

The IA guidebook is an informative medium detailing specifically the roles and responsibilities of being an IA member. The responsibilities focus, among others, on water conservation, protection and maintenance of systems, payment of dues and other water fees, and participation in O&M activities. Illustrations were made to simplify presentations.

1.2.3 Maintenance and Rehabilitation Guide for Irrigators Association Members (for IA member farmers, Ref. Table 1.3)

The manual presents in a simple way on how an IA member can perform his/her role in maintenance and rehabilitation works. Definition of technical terms was simplified for easy understanding and procedures for actual maintenance and rehabilitation were localized for ease in application. Illustrations were included to enhance the learning process.

2. Campaign Video Programs

Three (3) sets of campaign video programs were prepared in the Study. Based on discussions with NIA counterparts, an introduction video of a progressive IA was produced in Phase 1 field survey. This will be used as a campaign tool in the second field survey. The contents of the two (2) other video programs were based on enhancing NIA-IA partnership in irrigation system management (Video Program No. 2) and approaches to strengthening irrigations associations (Video Program No. 3).

2.1 A Day in the Life of Mang Conrado (A success story, featuring a member of Badagoy Irrigators Association, Video Program No. 1)

The Badagoy IA was selected as the introduction video of a progressive IA. It is a CIS-IA organized in 1960. The service area is about 2,050 ha covering 1,350 member farmers. The Badagoy IA was awarded with distinction as outstanding IA for three consecutive years.

The video program covered an introduction of Badagoy's history, activities and informative features that led to its success. The video is intended to motivate other IAs to become strong and self-reliant organizations. The outline of the video program is summarized as follows:

- 1. Intro: Mang Matias on a typical day
- 2. Badagoy: the irrigation system and the association
- 3. How it all began (A bit of history)
- 4. The brave 18 (1949)
 - · The long journey
 - PALOMAR 1 and the New Ilocos Balatukan CIS
 - PALOMAR 2 and the Badagoy Communal Irrigation System
 - The merger and the Badagoy Irrigation Association, Inc. (1959)
 - NIA assistance: institutionalization and construction (1985)
- 5. What's been done
 - Awards and commendations
 - Irrigated area and cropping intensity
 - ISF collection efficiency without service fees collectors (80-96%)
 - Equity generation (P500,000 raised 1968-1978); IA has no loan

- Solvency and diversified income sources
 - Water service fees
 - Drying and storage fees
 - Water rental from expansion areas
 - Penalties and fines
 - Permit fees
 - Certification fees
 - Interest on deposits
- Membership growth (200 to 1,350)
- Regular meetings with high turnout at meetings (96-100%)
- Monitoring functions successfully devolved to 15 districts
- Support for livelihood projects (tilapia and hito fishpond), duck and egg production,
- vegetable garden
- Special assistance to members
 - Mutual/Mortuary aid
 - Donation of materials for tomb construction
 - Rat campaign
- Assistance to communities: Chapel improvement, road construction, setting up of
 potable water facilities, participation in community functions such as fiestas and
 town anniversaries, loaning of furniture
- Satisfied membership (consistently Outstanding functionality survey results (93-111% in 1996-2000)
- 6. How they do it (Operating features)
 - Cropping calendar
 - Water distribution scheme
 - ISF collection
 - Meetings
 - Rewards and penalties
 - Repair and maintenance
 - Complete documentation and record-keeping
 - Continuous institutional development
- 7. People make a difference (The organization responsible)
 - The officers
 - President
 - Secretary
 - Treasurer
 - Auditor
 - The members

2.2 Enhancing NIA-IA Partnership in Irrigation System Mangement (Video Program No. 2)

The video describes the NIA and IAs as entitities sharing the responsibility of managing irrigation systems successfully. It explains the respective roles and responsibilities of the organizations, discusses issues and problems related to irrigation management, and presents the NIA-IA partnership as a strategy to achieve sustainable irrigation systems. The outline of the video is summarized as follows:

- 1. Introduction: Importance of irrigation in increasing farm productivity
- 2. NIA and IAs: Sharing the responsibility for developing sustainable irrigation system
- 3. Sustainability issues and problems in irrigation
 - Costs and unrealized benefits
 - Problems
 - poor O&M
 - poor service
 - low ISF collection
 - consequences of the vicious cycle problem

- 4. Confronting the issues and problems
 - Indicators of success
 - Dynamic NIA-IA partnership
 - Partnership structure and functions
 - Envisioned impact
- 5. Closing message: creed for successful NIA-IA partnership
- 2.3 Approaches to Strengthening Irrigators' Associations in National Irrigation System (Video Program No. 3)

The video discusses recommended measures to strengthen irrigators associations. It explains the concepts and describes the basic steps involved. It features presentation by trainers as well as testimonials of IA leaders who have experienced implementation of specific approaches. The outline of the video is summarized as follows:

- 1. Introduction: Results of IA functionality survey in the last 3 years
- 2. Strengthening IA members' critical thinking: project cycle management (PCM)
- 3. Steps in conducting PCM workshop
 - Participation analysis
 - Problem analysis
 - Objective analysis
 - Alternative analysis
 - Project design matrix
 - Operationaln plan
- 4. Recommended concepts for strengthening IA
 - Schronized irrigation farming management
 - Farmland trust
 - Assembly market
- 5. Conclusion: The challenge of building iragnizational strength

3. Campaign Posters

A campaign poster, enticing IAs to become strong organizations, was designed for use at representative NISs and IAs during the second field survey. Taking into consideration the present situation of IAs, roles of IAs in countryside development, and suggestions from workshop participants, the JICA Study Team prepared some campaign slogans. The draft campaign posters as shown in Figure 3.1 to 3.3 was submitted together with the Interim Report and used as campaign tool in the second field survey. Based on the comments from NISs and IAs, the draft campaign poster was refined for mass production as shown in Figure 3.4.

4. Homepage

The Study Team prepared and discussed with NIA counterparts regarding the contents and schedule for introducing the JICA study through the NIA web site. Opening a homepage of JICA Study on the NIA web site was agreed by NIA and the

information on the JICA Study was presented as follows:

(a) Year 2002

August : Background, objectives, approach, schedule and

methodologies of the study

December: Study results on classification of NISs and IAs, and

summary of Interim Report

(b) Year 2003

January : Survey activities and findings at the model project sites

for formulation of IA strengthening action plan

February : Introduction of GIS and database systems on NISs and

IAs

March : Introduction of Action Plan for IA strengthening

Front page of JICA NIS-IA Strengthening Study are shown in Figure 4.1. The Electric Data Processing (EDP), under the Corporate Planning Staff maintains the NIA homepage. The EDP is now revising NIA web site to integrate it with the DA web site according to the DA's recommended guidelines. The NIA web site, leasing the server of CYBERSPACE in 2002, was integrated with DA's national information network in 2003.

Table 1.1 Contents, IA Strengthening Module (for trainers use)

Part I Introduction

Part II National Irrigation System Office (NISO) -Irrigators Association (IA) Management Module

- 1. Guideline
- 2. Pre-Irrigation Period
 - Step 1.1 Business Planning, NISO
 - Step 1.2 Business Planning, FIA (Federation of Irrigators Association)
 - Step 1.3 Business Planning, IAs (Irrigators Associations)
 - Step 1.4 Business Planning, TSAGs (Turnout Service Area Group)
 - Step 2.1 Annual Maintenance, NISO
 - Step 2.2 Annual Maintenance, FIA
 - Step 2.3 Annual Maintenance, IAs
 - Step 2.4 Annual Maintenance, TSAGs
 - Step 3.1 Announcement of Irrigation Water Delivery Schedule, NISO
 - Step 3.2 Announcement of Irrigation Water Delivery Schedule, FIA
 - Step 3.3 Announcement of Irrigation Water Delivery Schedule, IAs
 - Step 3.4 Announcement of Irrigation Water Delivery Schedule, TSAGs
 - 3. Irrigation Period
 - Step 4.1 System Operation, NISO
 - Step 4.2 System Operation, FIA
 - Step 4.3 System Operation, IAs
 - Step 4.4 System Operation, TSAGs
 - Step 4.5 System Operation, Members
 - Step 5.1 Monitoring Farming Status, Members
 - Step 5.2 Monitoring Farming Status, TSAGs
 - Step 5.3 Monitoring Farming Status, IAs
 - Step 5.4 Monitoring Farming Status, FIA
 - Step 5.5 Monitoring Farming Status, NISO
 - Step 6.1 Scheduling Water Delivery, NISO
 - Step 6.2 Scheduling Water Delivery, FIA
 - Step 6.3 Scheduling Water Delivery, IAs
 - Step 6.4 Scheduling Water Delivery, TSAG
 - Step 7.0 Seasonal Repair, NISO
 - Step 8.1 Preparation, Confirmation and Distribution of ISF Bills, TSAG
 - Step 8.2 Preparation, Confirmation and Distribution of ISF Bills, IA
 - Step 8.3 Preparation, Confirmation and Distribution of ISF Bills, FIA
 - Step 8.4 Preparation, Confirmation and Distribution of ISF Bills, NISO
 - 4. Post Irrigation Period
 - Step 9.1 ISF Collection, Members
 - Step 9.2 ISF Collection, TSAGs
 - Step 9.3 ISF Collection, IAs
 - Step 9.4 ISF Collection, FIA
 - Step 9.5 ISF Collection, NISO
 - Step 10.1 ISF Sharing, NISO
 - Step 10.2 ISF Sharing, FIA
 - Step 10.3 ISF Sharing, IAs
 - Step 10.4 ISF Sharing, TSAGs

Table 1.1 Contents, 1A 5ti engthening Module (101 trainers use)				
Step 11.1 Seasonal Evaluation for O&M Performance, Members				
Step 11.2 Seasonal Evaluation for O&M Performance, TSAG				
Step 11.3 Seasonal Evaluation for O&M Performance, IA				
Step 11.4 Seasonal Evaluation for O&M Performance, FIA				
Step 11.5 Seasonal Evaluation for O&M Performance, NISO				
Step 12.1 Pre General Assembly Meeting, TSAGs				
Step 12.2 General Assembly Meeting, IAs				
Step 12.3 FIA General Assembly Meeting, FIA				
REFERENCE A RECORD FORMS				
Reference A-1 Masterlist of Farmers				
A1-1 Masterlist of Farmers				
A1-2 IA Summary of Masterlist of Farmer Beneficiaries				
A1-3 FIA Summary of Masterlist				
Reference A-2 Farming Information Record				
A2-1 Calendar for Irrigation for Crop Year 2002 - 2003				
A2-2 Individual Farmers Record				
Reference A-3 TSAG Operations Plan & Record				
A3-1 Calendar for Irrigation for Crop Year 2002 - 2003				
A3-2 TSAG O & M PLAN				
A3-3 TSAG Maintenance and Repair Records				
A3-4 TSAG Record of Daily Discharge				
A3-5 TSAG Record of Farming Information and Farming Activities A3-6 TSAG Projected and Actual Cropping Calendar and				
Pattern of Planting				
A3-7 TSAG Weekly Record of Required and Actual Discharges				
A3-8 TSAG List of Irrigated and Planted Area (LIPA)				
A3-9 TSAG List of Lots Requesting for Exemption				
A3-10 Request for Exemption				
A3-11 Certificate of Exemption				
A3-12 TSAG Amendments to List of Lots Planted				
A3-13 TSAG List of Bills Served A3-14 Sample Irrigators Association (IA) Official Receipt				
A3-14 Sample Irrigators Association (IA) Official Receipt A3-15 NIA Official Receipt				
A3-16 FIA Billing and ISF Collection Performance				
A3-17 IA ISF Collection and Sharing Record				
A3-18 TSAG Summary of Production and Farming Performance				
A3-19 TSAG Seasonal O & M Report				
A3-20 TSAG Action Plan				
Reference A-4 IA Operations Plan & Record				
A4-1 Calendar for Irrigation for Crop Year 2002 - 2003				
A4-2 IA O &M Plan				
A4-3 IA Water Distribution Plan				
A4-4 IA Maintenance and Repair Records A4-5 IA Record of Daily Discharge				
A4-5 IA Record of Daily Discharge A4-6 IA Record of Farming Information and Farming Activities				
A4-7 IA Projected and Actual Cropping Calendar and				
Pattern of Planting				
A4-8 IA Weekly Record of Required and Actual Discharges				
A4-9 IA Summary of Irrigated and Planted Area				

	IA List of Lots with Total Crop Failure
	IA Amendments to List of Lots Planted
	IA Summary of Bills Served
	IA Billing and ISF Collection Performance
	IA ISF Collection and Sharing Record
	IA Summary of Production and Farming Performance
	IA Seasonal O & M Report
A4-17	IA Action Plan
Reference A-5 FIA Ope	rations Plan & Record
A5-1	Calendar for Irrigation for Crop Year 2002 - 2003
	FIA O &M Plan
A5-3	FIA Water Distribution Plan
A5-4	Sample Program of Works & Statement of Estimated Cost (POWSEC)
A5-5	FIA Maintenance and Repair Records
	FIA Record of Daily Discharge
	Farming Information and Crop Area-Growth Stage Projection
	FIA Projected and Actual Cropping Calendar and
	Pattern of Planting
	FIA Weekly Record of Required and Actual Discharges
	FIA Summary of Irrigated and Planted Area
	FIA Summary of Request for Exemption
	FIA Summary of Amendments to List of Lots Planted
	FIA Summary of Bills Served
	FIA Billing and ISF Collection Performance
	FIA ISF Collection and Sharing Record
	FIA Summary of Production and Farming Performance
	FIA Seasonal O & M Report
	FIA Action Plan
Reference A-6 General	FIA/IA Policies on O&M and Other Activities
A6-1	Regular Office Duties and Honoraria
	Operations
	Water delivery and Distribution Plan
	Maintenance and Repairs
	Finances and Funds for O&M
Reference A-7 FIA/IA	•
	Annual Report Contents
	Annual Accomplishment Report
	Statement of Income and Expenses
	Balance Sheet
A7-5	Action Plan for Next Crop Year
Reference AN-1 System	n Operations Plan & Record
AN1-	Calendar for Irrigation for Crop Year 2003 - 2003
	2 Performance Targets
	3 Target Cropping Calendar and Pattern of Planting
	Water Distribution Plan
	5 Anticipated Implementation Problems
	SMC Integrated Plan
	7 Individual Program of Work
	B List of POW Submitted
	9 Status of NISO Projects
	10 NISO Record of Daily Discharge
	11 Farming Information and Crop Area Growth Stage Projection

- AN1-12 Required and Actual Discharges at Turnouts and IA/FIA Headgate
- AN1-13 Projected and Actual Cropping Calendar and Pattern of Planting
- AN1-14 Lists of Irrigation Facilities / Structures and Repairs Needed
- AN1-15 Lists of Accomplished Repair Works
- AN1-16 NISO Summary of Irrigated and Planted Area
- AN1-17 NISO Summary of Bills Served
- AN1-18 NISO Summary of Billed Area and Actual ISF Collection
- AN1-19 NISO ISF Collection and Sharing Record
- Reference AN-2 Systems Report O&M Mid and Post Season Assessment
 - AN2-1 Basic Information
 - AN2-2 Target and Actual Cropping Calendar and
 - Pattern of Planting by IA/FIA Area
 - AN2-3 Implementation Problem
 - AN2-4 Anticipated Next Season Implementation Problems
- Reference AN-3 Systems Report O&M Crop Year Evaluation
 - AN3-1 Basic Information
 - AN3-2 Actual Cropping Calendar and Pattern of Planting by IA/FIA Area
 - AN3-3 Summary of Crop Year Implementation Problems

Reference B Technical Procedure

- Reference B-1 Determination of Percolation and Evapotranspiration Rates 1 1
 - **B1-1** Percolation
 - B1-2 Measurement
 - B1-3 Observation, Recording and Analysis
- Reference B-2 Determination of Seepage Rates
 - B2-1 Seepage
 - B2-2 Measurement
 - B2-3 Observation, Recording and Analysis
- Reference B-3 Determination of Irrigation Water Losses
 - **B3-1** Irrigation Water Loss
 - B3-1 Measurement
- Reference B-4 Computation of Irrigation Water Requirements
 - B4-1 Irrigation Water Requirement
 - B4-2 Computing Irrigation Water Requirement
- Reference B-5 Development of Unit Area Discharge Irrigation Network
 - B5-1 Unit Area Discharge Irrigation Network
 - B5-2 Data and Information Needed
 - B5-3 Procedures
- Reference B-6 Preparation of Irrigation Delivery Schedules
 - B6-1 Irrigation Delivery Schedules
 - **B6-2** Preparation
- Reference B-7 Preparation of Schedule of Rotational Irrigation
 - B7-1 Rotational Irrigation
 - B7-2 Fixed Time-Variable Discharge Method
 - B7-3 Variable Time-Fixed Discharge Method
- Reference B-8 Discharge or Rate of Flow Measurement
 - B8-1 Discharge or Rate of Flow
 - B8-2 Parshall Flume
 - B8-3 Double-gated Turnout
 - B8-4 Calibrated Staff Gages
 - B8-5 Measuring Weir

Reference B-9 Meteorological Measurements

B9-1 Meteorological Measurement

B9-2 Rainfall

B9-3 Evaporation

Reference B-10 Evaluation of Irrigation Operations

B10-1 Evaluation of Irrigation Operations

Reference B-11 Technical Pointers in the Preparation of Operation Maps

B11-1 Operation Maps

Reference B-12 Preparation of Operation Bulleting Board

Reference B-13 Deriving Crop Area-Growth Stage Information

Reference B-14 Development of Cropping Calendar

B14-1 Cropping Calendar

B14-2 Development of Calendar for Rice Crop

Reference B-15 Requesting Exemption for the Payment of Irrigation Fee

PART III Guide for Project Cycle Assistance for IA Strengthening

Chapter I Introduction

- 1.1 Background
- 1.2 Project Cycle Management (PCM)
- 1.3 Contents of the Guide3

Chapter II Step by Step Guide in Problem Analysis

- $2.1\ Prepare\ a$ list of all the problems that give rise to the IA situation
- 2.2 Group similar or related problem statements
- 2.3 Give indications of the criticality, severity, urgency, or importance of each of the problem
- 2.4 Establish the priority of each problem on the basis of the criteria
- 2.5 Identify the possible causes of the Core or Starter Problem
- 2.6 Identify the effects of the core problem and then group them

Chapter III Step by Step Guide in Objective Analysis

- 3.1 Transpose or convert core problem into an objective statemen
- 3.2 Convert the projected negative effects into positive results
- 3.3 Convert the causes below the core problem into means by which the objective shall be met

Chapter IV Step by Step Guide in Alternative Analysis

- 4.1 Group the means
- 4.2 Establish the criteria for choosing which of the means will be pursued

Chapter V Step by Step Guide in Preparing Project Design Matrix (PDM)

- 5.1 Present the Project Design Matrix Form
- 5.2 Fill in the First Column, First Row of the Matrix
- 5.3 Fill in the Second Row, First Column of the Matrix
- 5.4 Fill in the Third Row, First Column of the Matrix
- 5.5 Fill in the Fourth Row, First Column and Fourth Row, Fourth Column of the Matrix
- 5.6 Fill up the rest of the Fourth Column of the Matrix
- 5.7 Fill up the Second and Third Column of the Matrix

Chapter VI Step by Step Guide in Preparing the Plan of Operation

- 6.1 Construct the Project Work Breakdown Structure0
- 6.2 Assign resources to the project activities, estimate the durations, and state assumptions about external factors that could affect the project

Chapter VII Monitoring and Evaluation

Part IV Directory of Existing Manuals and Modules Useful for IA Strengthening

Table 1.2 Contents, Steward of Water, A Guide for Farmers

Part I Stewarship of Water Chapter 1 Water sustains life Water **Ouantity Ouality** Chapter 2 Harnessing and protecting our water resource The Irrigation System is man's means The Irrigation System is Physical The Irrigation System is also a Socio-economic Structure Chapter 3 Being stewards of our water resource You and your Irrigator's Association The Heart of the Steward A Steward of water is a Man or Woman of Authority and Responsibility To whom much is given much is required Am I: Are We? Partners Towards Productive and Effective Operation and Maintenance of Irrigation Systems Part II Farmer's Guide to Managing the Irrigation System Chapter I Preparing to manage our irrigation system Let Us Plan as a Team We Must Agree on What is a Cropping Calendar? What is a Water Distribution Plan? What is a Repair and Maintenance Plan? What is an ISF Collection Schedule? Keeping our Irrigation System in the best condition Chapter 2 Our Irrigation System is like our rice field Before Planting Before our cleaning day During the cleaning day Our Irrigation System is Interconnected Distributing water for the best use of the most number of farmers Chapter 3 In our Association, we are not just members, we are one community Chapter 4 Operating the Irrigation System How the Irrigation System Works Chapter 5 Keeping watch farm I am the Manager of my rice field Using irrigation water wisely Chapter 6 Water is a Precious Resource Wet Season Dry Season The Rotation Period Day to day care of my irrigation canal Chapter 7 Our Irrigation System is Interconnected Setting aside my contribution to my Irrigation System Chapter 8 I should know the Irrigation Service Fee is all about Chapter 9 Taking time to Record Critical Farm Information and My Observations and Self-Assessment Record and List Chapter 10 Paying my Irrigation Service Fee So When I think of ISF Chapter 11 Being Aware of our Financial Status Chapter 12 Taking time out together to assess: How well did we care for our Irrigation

System

The Season comes to an end

Table 1.3 Contents, Maintenance and Rehabilitation Guide for Irrigators Association Members

Chapter I First Step Before Implementing and Rehabilitation

I am joining the IA because

If I do not join the IA

Basic Information on What, Where, Who and How of System Maintenance

Chapter II Maintenance

Boundary of IA responsibility on maintenance

Product of Good Maintenance

Before and During the Cropping Season

During the Maintenance Planning Season

My role and the IA role

What's Routine Maintenance?

What's Periodic Maintenance?

Maintenance Needs of Irrigation Structures

Maintenance Need of Access Roads

Patrol

Important Things to consider on Walk-Through

On Drains

Chapter III Rehabilitation

Planning the Rehabilitation

Prioritization

Accomplishing Forms

Preparing the Detailed Plan

Program of Work and Statement of Estimated Cost

Identifying Work for IA and Work for NIA

Flow of Activities for Rehabilitation Works for IA

Works to be Undertaken by NIA

Provisional Policies on IMT

Damaged by Disaster

Chapter IV Important basic tips on Construction Works

Earth Works (Canal farm ditch, service road)

Embankment

Desilting

Masonry Works

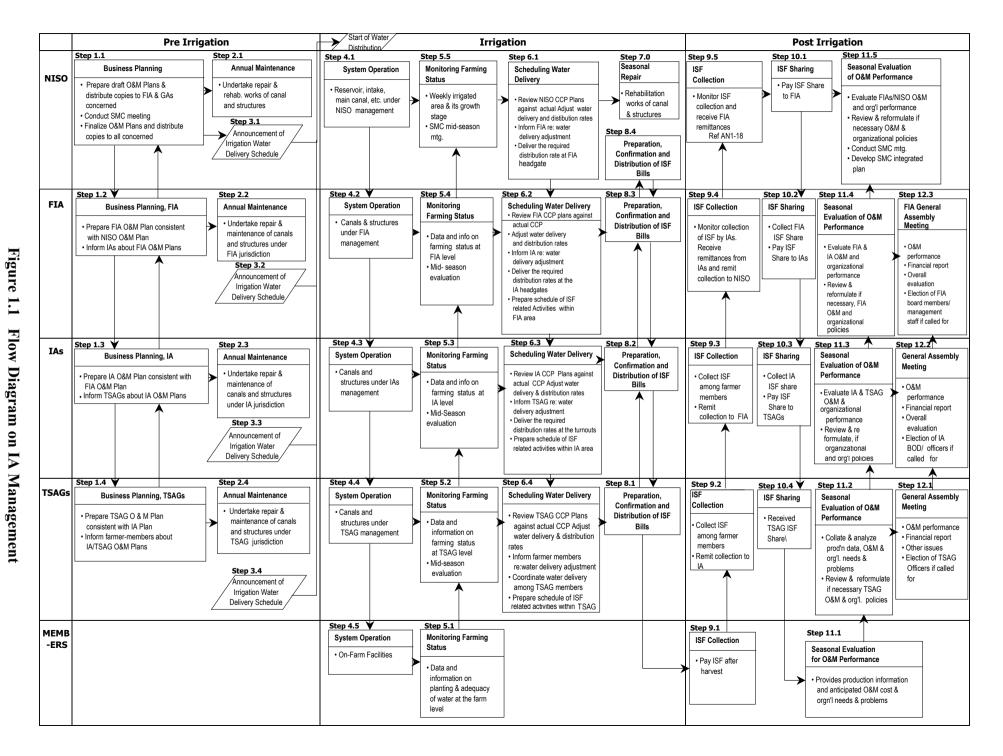
Concrete Works

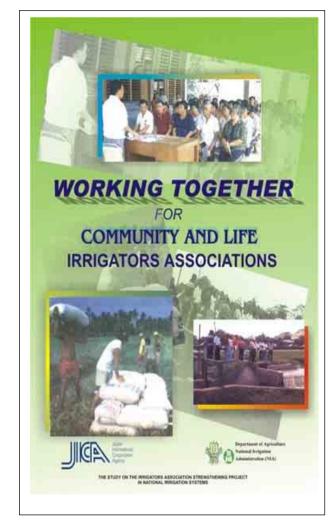
CHB Lining

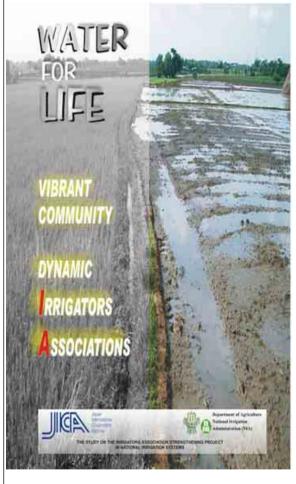
Metal Reinforcement

How Many people need

Sample for Estimating Equipment







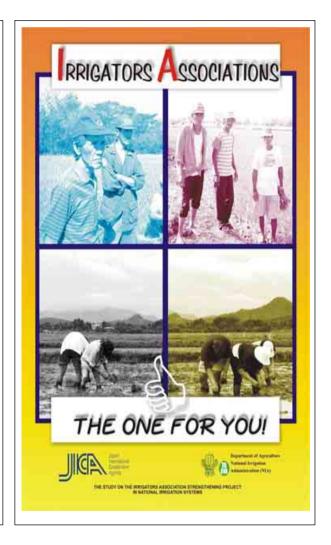


Figure 3.1 Campaign Poster No. 1

Figure 3.2 Campaign Poster No. 2

Figure 3.3 Campaign Poster No. 3

Figure 3.4 Final Campaign Poster

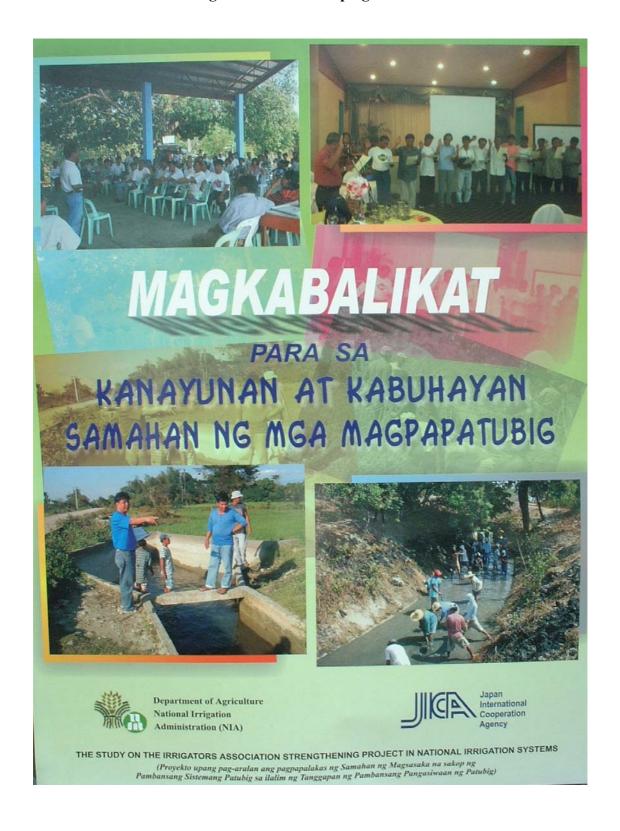


Figure 4.1 JICA NIS-IA Strengthening Study Home Page



CLASSIFICATION ® FIELD SURVEY AND TARGET NIS-IA ACTION PLAN

NIS-TA

PROGRESS AS OF SEPTEMBER 2002

INTRODUCTION OVERVIEW OF IA

STATUS AND ISSUES OF IMT ® NIS-IAS CLASSIFICATION AND TARGET (8) DATABASE DESIGN AND GIS SYSTEMS **ACTION PLAN** FRAMEWORK DRAFT MANUALS AND CAMPAIGN TOOLS STUDY WORK PLAN

PROGRESS AS OF **DECEMBER 2002**

FIELD SURVEY AND STUDY AT SELECTED NATIONAL IRRIGATION SYSTEM AND IRRIGATORS ASSOCIATION® One of the major reasons in fluctuation of agricultural production in the Republic of the Philippines is insufficient and poorly managed agro-infrastructure particularly, irrigation facilities for food-crop production. The Government of the Republic of the Philippines (GOP) attempts to stabilize food-crop production by increasing the irrigated areas to a ratio of 73.8% of all irrigable areas over the country by the year 2005 mainly through the rehabilitation of existing irrigation facilities and construction of new systems. The NIA, responsible for irrigation development, however, has various problems such as shortage of O&M budget principally due to low collection of irrigation service fee (ISF), and poor institutional management. To improve the situation, a Study on the Strengthening of NIA's Management System with technical assistance from JICA was conducted in 2000 and was completed a year The NIA is about to start restructuring its organization in accordance with the programs formulated in the said study.

The GOP through NIA is currently implementing irrigation management transfer (IMT), that is to turn over the responsibility of operation and maintenance (O8M) of systems below the main facilities of national irrigation systems (NISs) to Irrigators Associations (IAs), in accordance with the provision of the Agriculture and Fisheries Modernization Act (AFMA) promulgated in 1997. However, there is a significant variation among the individual IAs as regards their technical and managerial capacities implementing the IMT. Most of the IAs have performed unsatisfactorily as indicated by low ISF collection, poor O&M, and unstable water supply. Strengthening the IAs is thus essential to promote efficient management of irrigation systems at on-farm level to stabilize food-crop production.

Against this background, the GOP requested the Government of Japan (GOJ) in June 1999 to extend technical assistance for a strengthening program for the IAs in the national irrigation systems. In response, the GOJ sent a Preparatory Study Team to the Republic of the Philippines and having conducted the preliminary study, both Governments agreed to implement the

2. OBJECTIVES OF THE STUDY

The objectives of the Study are:

1. to formulate an Action Plan for strengthening Irrigators Associations (IAs) in NISs to become self-reliant organization and thus be able to manage

Figure 4.1 JICA NIS-IA Strengthening Study Home Page

- efficiently the system, and implement properly the IMT; and
- 2. to transfer technology to counterpart personnel and IA members on planning procedure and methodology.

3. TARGET OF THE STUDY

The Study Target consists of two groups:

- 1. Phase I: Around 1,200 IAs in 196 NISs all over the country; and
- 2. Phase II: Selected NISs and related IAs and some highly-functional IAs in the Communal Irrigation Systems (CISs).

4. PROCEDURE OF THE STUDY

The Study will be carried out in two phases. Phase I is the first field work, primarily data gathering and analysis, and the outcome of which will be an interim report presenting constraints and analysis of IAs, classification of IAs , draft action plan framework and related manuals and campaign tools. Phase II consists of two field works and two home works. The detailed activities for each phase are as follows:

1. Phase I

- a. 1st Field Work
 - · discuss inception report
 - international identify partnership assistance projects/programs
 - · identify and analyze present conditions and constraints on
 - NISs and IAs classify NISs and IAs and select representative NISs and IAs
 - formulate action framework prepare interim report

2. Phase II

- a. 2nd Field Work
 - · discuss interim report
 - carry out detailed investigation and study on representative NISs and IAs

 - formulate action plan prepare implementation prepare implementation program of action plan and evaluate outputs of action
 - present overall assessment and recommendation
- b. 1st Home Work
 - prepare draft final report
 discuss and compile draft
 - final report
 - produce campaign tools and materials for dissemination seminar
- c. 3rd Field Work

 - discuss draft final report
 hold dissemination seminar
- d. 2nd Home Work
 - · prepare final report

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