Japan International Cooperation Agency (JICA) Directorate General of Water Resources (DGWR) Ministry of Settlement and Regional Infrastructure (KIMPRASWIL) Government of the Republic of Indonesia

THE STUDY FOR IMPROVEMENT OF IRRIGATION MANAGEMENT AND EMPOWERMENT OF WATER USERS' ASSOCIATIONS FOR ENHANCEMENT OF TURNOVER PROGRAM IN THE REPUBLIC OF INDONESIA

FINAL REPORT

EXECUTIVE SUMMARY

NOVEMBER 2001

PACIFIC CONSULTANTS INTERNATIONAL

COMPOSITION OF THE FINAL REPORT

***** English Version *****

Executive Summary Main Report Annex

***** Indonesian Version *****

Summary

****** Japanese Version *****

Main Report

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PREFACE

In response to a request from the Government of the Republic of Indonesia, the Government of Japan decided to conduct a Study for Improvement of Irrigation Management and Empowerment of Water Users Associations for Enhancement of Turnover Program in the Republic of Indonesia and entrusted the Japan International Cooperation Agency (JICA) with the Study.

JICA selected and dispatched a study team headed by Mr. Keiji MATSUMOTO of Pacific Consultants International to the Republic of Indonesia between April 2000 and October 2001.

The Study Team held discussions with officials concerned of the Government of Indonesia, and conducted field surveys at the Study Area. Upon returning to Japan, the Team conducted further studies and prepared this Final Report.

I hope that this Report will contribute to the promotion of the Turnover Program and to the enhancement of friendly relations between our two countries.

Finally, I wish to express my sincere appreciation to the officials concerned of the Government of Indonesia for their close cooperation extended to the Study Team.

December, 2001

W上管計

Takao KAWAKAMI President Japan International Cooperation Agency

Mr. Takao KAWAKAMI President Japan International Cooperation Agency

Transmittal Letter

We are glad to submit the Final Report of the Study for Improvement of Irrigation Management and Empowerment of Water Users' Association for Enhancement of Turnover Program in the Republic of Indonesia.

The report consists of the Action Plan for Improvement of irrigation management and empowerment of water users' associations, which have been prepared in consideration of the advices and recommendations of relevant ministries of the Government of Japan and JICA on formulation of development, as well as the discussions with the Indonesian counterpart on the Draft Final Report and their comments on the report.

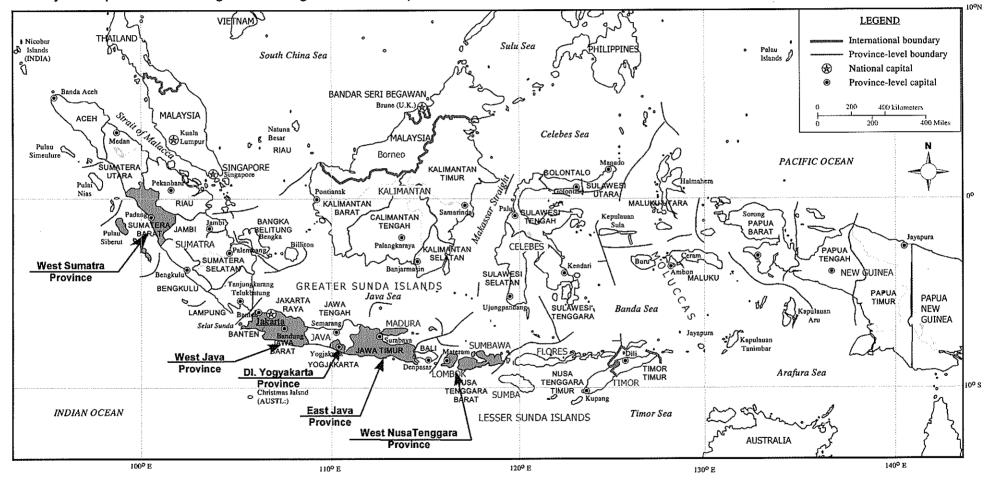
Under the Irrigation Operation and Management Policy (1987), the Government of Indonesia started irrigation management turnover to water users associations for the decrease or elimination of government financing to irrigation O&M of irrigation scheme less than 500 ha by promoting self-reliant water users association. Under Water resources management reformation policy (1999) and Water resources sector adjustment loan (WATSAL), the government started the expansion and enhancement of irrigation management turnover program for all irrigation schemes.

This Study aimed to formulate the action plan to be implemented by government officials and farmers for enhancement of turnover of irrigation management within framework to be established by WATSAL. The Study conducted by participatory approach through all stages of the study from the problem identification upto action plan formulation at central government and five Study provinces. Many field surveys and workshops were conducted with collaboration with government officials and farmers. As a result of the study the action plan formulated to be a guideline for the government officials to enhance the irrigation management turnover program. It is thus anticipated that these Action Plan be put into implementation as soon as possible following the implementation schedule proposed in the report.

Taking this opportunity, we express our sincere gratitude to the officials of your Agency, the Ministry of Settlements and Regional Infrastructure and the Ministry of Agriculture, Forestry and Fishery of the Government of Japan for their valuable advices and recommendations for our Study. We are also grateful to the officials of the Ministries and other public organizations involved in the Study for their devoted cooperation and support during the implementation of the Study in Indonesia.

Sincerely yours,

Keiji MATSUMOTO Team Leader The Study for Improvement of Irrigation Management and Empowerment of Water Users Associations for Enhancement of Turnover Program in the Republic of Indonesia



Study for Improvement of Irrigation Management and Empowerment of Water Users' Associations for Enhancement of Turnover Program

Location of Study Provinces

STUDY FOR IMPROVEMENT OF IRRIGATION MANAGEMENT AND EMPOWERMENT OF WATER USERS' ASSOCIATIONS FOR ENHANCEMENT OF TURNOVER PROGRAM IN THE REPUBLIC OF INDONESIA

FAINAL REPORT

EXECUTIVE SUMMARY

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STUDY FOR IMPROVEMENT OF IRRIGATION MANAGEMENT AND EMPOWERMENT OF WATER USERS' ASSOCIATION FOR ENHANCEMENT OF TURNOVER PROGRAM

Executive SUMMARY

1. The Study

The objectives of the Study, which were defined in the Scope of Works (S/W) and Terms of Reference signed in September 1999 by both Government of Indonesia (the Government) and a preparatory study team dispatched by Japan International Cooperation Agency (JICA), on behalf of Government of Japan, are as follows;

- 1) To formulate plans on the improvement of irrigation management and empowerment of Water Users' Associations(WUAs) for enhancing the turnover program
- 2) To carry out the technology transfer to Indonesian counterpart personnel through on-the-job training during the course of the Study.

The Study aims to formulate Action Plans for enhancing turnover of irrigation O&M, while considering aspects of improvement of irrigation management and empowerment of water users' association. To achieve these objectives, a number of Work Items were specified, as shown in Table S.1.1; those related to Phase I of the Study were completed during 2000, while the remaining ones were completed during Phase II, in the period to September 2001. Main activities during these two phases were defined as follows:

- Phase-1 Review previous studies and projects involved in the turnover program, conduct field surveys in the Study Area to identify the present problems and constraints related to the Turnover Program, and analyze and categorize these problems and constraints
- Phase-2 Based on the categorized problems and constraints, hypothesize appropriate countermeasures whose effectiveness will be confirmed, after being examined and inspected through detailed survey in the field. Following that, an action plan will be formulated for the irrigation O&M turnover program

The Study Area comprises the five provinces of West Sumatra, West Java, D.I.Yogyakarta, East Java and West Nusa Tenggara, with a total area of 157,000 km², a total population of 80 million, an irrigated area of 1,911,000 ha and 18,000 existing WUAs. About 40% of the national paddy harvested area lies within these provinces, producing around 45% of its rice. Approximately 42% of the national population lives in these provinces.

Summary	V List of	WUA By	y Status in	Indonesia	(1998)
---------	-----------	--------	-------------	-----------	--------

	2		2			,	
Description	W. Sumatra	W. Java	Yogyakarta	E. Java	W. Nusa Tenggara	Sub-Total	Indonesia
Developed / Function	on Well						
Already legitimated	5	0	0	31	35	71	502
Not yet legitimated	319	1,818	57	1,187	6	3,387	6,727
Sub-Total	324	1,818	57	1,218	41	3,458	7,229
Developing / Active	•						
Already legitimated	0	0	0	0	0	0	312
Not yet legitimated	989	3,280	344	3,548	644	8,805	16,139
Sub-Total	989	3,280	344	3,548	644	8,805	16,451
Develop Yet / Not A	Active						
Already legitimated	0	0	0	0	0	0	198
Not yet legitimated	800	2,800	305	1,876	211	5,992	14,248
Sub-Total	800	2,800	305	1,876	211	5,992	14,446
Total							
Already legitimated	5	0	0	31	35	71	1,012
Not yet legitimated	2,108	7,898	706	6,611	861	18,184	37,114
Sub-Total	2,113	7,898	706	6,642	896	18,255	38,126
Source + DI LDDSDA							

Source : PU PPSDA

2 Background to Irrigation Management Reform

The Study has been undertaken at a unique point in Indonesia's history; the country is in the throes of trying to establish a stable democracy and trying to establish a system of regional autonomy, while at the same time contending with the aftermath of the 1997 financial crisis. These issues set against the context of the irrigation sector, have impacted on the Government in the following ways;

- Government can no longer rely on major foreign-sourced funding,
- Government's internal sources of revenue are severely stretched,
- there is a move away from project-orientated development,
- towards one which promotes farmer participation and less reliance on Government support.

During the past 20 years or so there has been heavy expenditure in irrigation infrastructure, resulting in the build-up of a huge overall investment asset. Government has, for some time, appreciated that the cost of the operation and maintenance (O&M) of this asset has become burdensome, both in terms of annual and routine activities and of periodic rehabilitation. This caused government to introduce some initiatives more than a decade ago, aimed at keeping these costs in check. Attempts were made to;

- improve annual O&M,
- to encourage farmers to take more care of their systems,
- to turnover responsibilities for certain elements of irrigation systems to the farmers,
- to levy a water charge and to create water users' associations (WUAs).

Whilst all these initiatives met with some success, the overall impact has not been very significant. It is believed that the main reason for this was the top-down approach, which allowed little real scope for farmer participation. O&M has not, in general, improved significantly with neither farmers or Government providing enough input to allow the routine work to be done properly. This has engendered a condition whereby systems require rehabilitation at intervals far shorter than would have been necessary had O&M been done properly. It has also provided an environment whereby farmers expect Government to support them, both with annual O&M and with rehabilitation. Meanwhile systems operate at sub-optimal levels, constraining farmers' incomes and national food production.

Recently policies have been introduced with the intention of making many of the initiatives already tried more effective. The main differences between the past and the present are:

- that Government must now act in the role of facilitator, rather than implementer,
- farmer participation is required at all stages, with the intention that they develop a feeling of involvement (belonging) thereby being more willing and capable of accepting responsibility,
- WUAs should now be democratically established,
- All O&M funds collected by the WUA should be handled by the WUA,
- there is now little prospect that Government will, in the short to medium term, have the funds to support irrigation as it has in the past,
- irrigation systems will now only be rehabilitated, once they have been turned-over.

Government is being assisted by a Water Resources Sector Adjustment Loan (WATSAL) to develop new policies and initiatives. This Study has reviewed WATSAL activities, and all proposed activities to September 2001, have been taken into account. The current WATSAL situation is still dynamic and as yet, many conditional requirements are not fully satisfied.

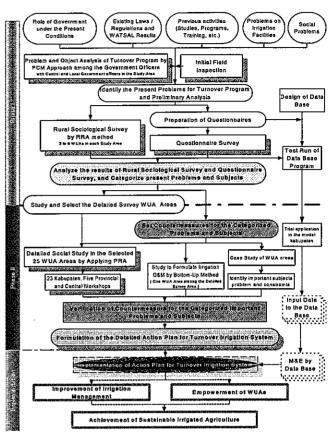
3. Study Activities

Table S.1 presents items of the Study and general flow is shown the methodology used at each step in figure below.

3.1 Phase I

(1) <u>Inception Report and Setting-Up of Survey</u> <u>Implementation</u>

After the explanation of the Inception Report by the JICA Study Team to the Indonesian agencies concerned, both parties discussed important issues related to the study implementation, including the JICA advisory Committee. The Assistant Deputy for Irrigation Affairs, under the Deputy for Water Resources of the State Ministry of Public Works (MENEG PU) was appointed and confirmed as the counterpart agency; while the Directorate of Rural Water Resources under the Directorate General of Rural Development of the Ministry of Settlement and Regional Development (KIMBANGWIL), was a member of the Steering Committee that defined the Scope of Works.



Work Flow of the Study

Minutes of Meetings, resulting from the explanations and discussions on the Inception Report, were prepared and signed by the Deputy for Water Resources of the MENEG PU and the Team Leader of the JICA Study Team. These were witnessed by the Directorate of Rural Water Resources under the Directorate General of Rural Development of the KIMBANGWIL, on April 13, 2000. An office for the JICA Study Team was provided in the MENEG PU headquarters.

(2) Collection and analysis of additional data and information

The JICA Study Team collected existing information from relevant organizations (Government ministries and agencies, World Bank, ADB and others), on aspects related to laws and regulations, on-going studies and plans, inventories of irrigation schemes and water users' associations, socio-economic and agricultural statistics. Initial field visits were made to the Study Areas to introduce the Study concept and to establish relationships with the local government agencies concerned.

(3) Detail Field Survey (Rural Sociological Survey & Questionnaire Survey of WUA)

1) Survey Methodology and Site Selection

Rural sociological survey applying Participatory Rural Appraisal (PRA) methodology was used to identify, from the farmers' perspective, the constraints affecting the smooth turnover of O&M of irrigation systems.

Twenty four PRA survey sites were selected, six sites each in West Sumatra, West Java and East Java Provinces and three sites each in Yogyakarta and West Nusa Tenggara Provinces the. The selection criteria were 1) location along primary canal (upstream, midstream and downstream), 2) form of WUA management (managed by single WUA or managed by a federation comprising several single WUAs), 3) Status of WUA management (well functioning, active, non-active and not yet established). The field surveys involved both farmer interviews and farmer group discussions.

Instead of being planned originally to conduct four Questionnaire surveys in each of the *kabupaten* within the five provinces, it was decided to reduce the number of *kabupaten* but to increase the number of surveys, per *kabupaten* which were selected considering similar characteristics. Table S.1.2 summarizes the results of the PRA survey and Questionnaire surveys. Following the surveys, workshops were held in each province and in Jakarta, were the preliminary results were presented and discussed.

	Selection of	Districts a	& Sites	for Surve	y and Res	spondent
- 1			1			

Descriptions	No. of Districts	No. of Selected Districts	No. of Sites	No. of Respondent
W.Sumatra	14	7	56	56
W.Java	24	10	116	96
Yogyakarta	5	4	20	18
E.Java	37	10	128	105
NTB	6	4	24	24
Total	86	35	344	299

2) Results of PRA Survey

Following the provincial and central workshops, the PRA findings were considered and analyzed in some depth by the Study Team and by the counterpart staff, applying PCM methodology. It became apparent, because of the unstructured nature of the PRA approach, which the perceived problems and constraints of irrigation management, WUA development and turnover program vary quite substantially between provinces. The perceived problems and constraints included the following main issues:

Government roles, support, laws and regulations :

- It was reported that Government's centralized and top-down approach remains much in evidence supporting the previous legal situation. This has often led to conditions where local government policies and actions with regard to irrigation management do not match with local needs.
- Indicators applied to WUA success do not give a true picture of WUA activity and capability.

Agriculture, economic, financial :

- Net cash income from farming and irrigated cultivation is low compared to off-farm income due to, amongst other factors, the small average size of holding.
- The young generation rapidly lose interest in farming; the resulting out-migration is reducing the availability of active farm laborers. Farm labor wages are rising, and this combined with the high cost of other inputs, is making rice production unprofitable, particularly as paddy prices are so low.

Irrigation system, O&M, water management :

- Irrigation canals and facilities do not function well due to many reasons, causing water losses and dry season shortages and wet-season floods.
- Conflicts among water users (between mid/downstream and upstream farmers, between paddy and non-paddy farmers, and between farmers and non-farmer water users,) are frequently encountered due to lack of water supply and unfair distribution.
- Inadequate technical designs and construction are partly responsible for the rapid breakdown of PU

irrigation structures and facilities. The project-oriented approach, the non inclusion of farmers in planning and implementation, and construction work contract practices, had varying unfavorable impacts on the problems of construction quality and the lack of a local sense of belonging and responsibility for water charges and O&M.

WUA management, institutional development:

- Too many farmers' organizations have been promoted, by various Government agencies, and exceed what the farmers require.
- WUAs establishment can be based on existing, traditional irrigation institutions using traditional *ulu-ulu* or *ili-ili*. Local water users are still committed to their *Ulu-ulu*, and the traditional practices of irrigation management including O&M remain (using *gotong-royong* for maintenance and paying in kind to the *Ulu-ulu*, etc.)

3) Results of Questionnaire Survey

The findings obtained through Questionnaire survey in the fields are summarized below:

- a) The status of most WUAs at present falls into the 'being developed' category. Most WUAs claim to have articles of association and operating guidelines (AD/ART). The majority of WUAs claim they are ready for turnover (to take on the responsibility of O&M of irrigation systems).
- b) The majority of respondents claim they actively participate in WUA activities, and consider the service of WUAs is good (This contradicts the conclusions reached by the World Bank, ADB and others, and statements made at the workshops, that most WUAs are generally not active, and receive very little support from the farmers).
- c) The majority of respondents consider that water is better managed under a WUA organization than under previous traditional systems. Water is distributed better in three provinces, East Java, West Java and NTB, and equitable water distribution is claimed by the majority of WUAs, and there is more order and cooperation.
- d) The majority of respondents said that WUA officials are appointed by open elections.
- e) Most WUAs claim to hold meetings, but communications are largely informal and records of meetings or minutes are rarely prepared. The main problems discussed are maintenance of the irrigation system, including, in many cases, secondary canals and water distribution and management. Other issues discussed were water service charges and payments and institutional and human resources matters (WUA organization and ability, personality and integrity of WUA officials, etc).
- f) Most WUAs, which are normally based on tertiary irrigation units, claim they also maintain secondary canals. Most maintenance is done by *gotong-royong* where farmers contribute their labour.
- g) The majority of WUAs stated that sanctions, for non-payment of water charge or violations of water use, are never applied.
- h) In response to the question regarding what aspects need to be promoted, the main points were:
 - Better trust, attention and guidance from the Government, training and extension;
 - Improved water supply and distribution, and the provision of sufficient water to all farmers;
 - Institutional strengthening and the improvement of human resources;
 - Irrigation system repair;
 - Access to capital, better management of funds, and better prices for crops.

(4) Categorization of Problems and Constraints

1) Approaches Adopted to Realize Participatory Problem Analysis

Based on the results of these Field Surveys, a series of provincial workshops were conducted (during late August to early September), attended by local government officers and farmers, to feed back the results of the field surveys and to allow them to participate in the problem analysis using PCM methodology. A workshop, at the national level, was also conducted with aim of identifying common issues at national level, conducting problem analysis, and exchanging information between the relevant provinces. Central and local government officers and farmers attended the workshop, on September 7th, 2000. Results from the series of workshops were examined and analyzed together with officers from the counterpart agency, and the issues were grouped into four main categories covering aspects relating to, administration (including laws and regulations), irrigation management, WUA management and farm economy.

2) Major Findings resulting from the Problem Analysis

- a) There is a long tradition of managing water in the farming communities of Indonesia (particularly for wet season rice), which have developed in accordance with local conditions and customs.
- b) It is axiomatic that the implementation of any Government project, including the WUA development program, involves a top-down approach, since the initiative and funding comes from above, and that project progress tends to be target-orientated. However, having said that, it is considered that the implementation of the WUA program has been too bureaucratic and uniform, and has not addressed the real problems being faced by farmers and rural communities. The rigid approach of the WUA program has not allowed sufficient flexibility to take into account local variations in physical conditions and traditions. The Government's domination has been too strong.
- c) Most WUAs exist in name only and are not active. Farmers are either not aware of WUAs or view them with apathy, and have little knowledge of the turnover program¹. Support for WUAs is generally weak because the organization is formed from above without the farmers' participation.
- d) The registration and status of a WUA on a turnover list does not indicate the effectiveness of irrigation operation and maintenance.
- e) Most farmers consider that the bureaucratic and formal nature of WUAs, and the fact that most key posts are filled by village leaders, implies that the main purpose of the organization is to collect funds, with little benefit to the farmers themselves. AD/ART -- articles of association (AD) and operational rules (ART) -- are not clearly understood. Sanctions to deal with violations of regulations over water management are rarely enforced, because they were not formulated with the participation or agreement of the water users.
- f) Generally farmers are confused by the addition of yet another organization at village level, and are happier with simpler institutions that are already well established in the village such as *kelompok tani* and *kooperasi*. Farmers generally prefer a simple management style. In West Sumatra many farmers questioned the relevance of formal WUAs, particularly on small upstream irrigation schemes where water was already being well managed.
- g) Although farmers have the potential to manage the O&M of turned-over tertiary units (in some places repairs to canals and structures are carried out spontaneously by *gotong royong*), in practice their involvement in O&M is generally low. Farmers have generally not been involved in

¹ Awareness is higher in East Java compared to the other Study provinces.

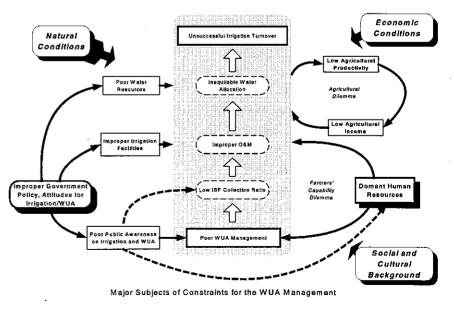
the design and construction of the irrigation schemes, and many projects have not been implemented according to plan (in terms of time, cost, design and quality) -- this has led to a lack of credibility amongst the farmers.

- h) The physical quality of many irrigation schemes is poor (for example, many diversion gates do not function) and water is lost through leakages. If irrigation facilities are in a poor state of repair, WUAs are generally not active and it is difficult to collect water service charges.
- i) Conflicts occur where water is not allocated or distributed in a fair manner between different water users (for example, between upstream and downstream farmers, between irrigation and domestic/industrial water supply, and between rice farmers, fish farmers, duck farmers, tobacco farmers, sugarcane farmers, etc). Also, confusion can arise where technical guidelines for O&M from different Government agencies (*Dinas PU Pengairan* and *Dinas Pertanian*) are not compatible or coordinated, since this can result in changes to cropping plans and planting times leading to reduced harvests.
- j) A major complaint of downstream farmers is what too much water is taken by upstream farmers.
- k) There is confusion concerning the area of responsibility of WUAs. Initially WUAs were based on village administrative boundaries². However, this was not effective in promoting the participation of water users who tend to be spread out over wide areas (including other villages), and there is now a preference for boundaries to be based on tertiary irrigation units.
- 1) The success of a WUA depends very much on the attitude and motivation of village leaders, the strength of community participation, and the awareness of farmer members.
- m) Technical irrigation schemes developed by the Government should be the priority of the turnover program.
- n) There is a problem organizing the O&M of higher level facilities (primary and secondary) which still depend on Government support.

3) Problem Analysis Summation

All of discussions and fact found in the fields were sublimated into Figure S.2 as problem tree diagram. Backgrounds of social / administrative hierarchy, social / historical influences and recent social/economical changes were recognized to have complicated cause-results relations among

concerned aspects. Obviously both government and farmers' sides have been facing to such intricate situations in their daily lives. Considering the given subjects of this study and above mentioned examinations 4 major issues are proposed as classifications of problems as 1) Government Role, Laws and Regulations, 2) WUA Management and Institutional Aspect, 3) Irrigation O&M and Water Management and 4) Agriculture, Economic and Finance.



² This is still the norm in East Java.

Issues identified above indicate that the most important factors related to the improvement of irrigation management are;

- a) how to promote the concept of irrigation O&M and management by, and
- b) how to empower the farmers, as the users of irrigation systems, and government officers, as the providers of information and as civil servants.

As a result of empowerment, the old WUAs, established under Government's top-down approach, can be reformulated to become sustainable WUAs where farmers participate in irrigation system management, together with Government (joint management), through the federations of empowered unit-WUAs. The study of countermeasures to the constraints, and their confirmation through the detailed field survey, will be focused on these two issues.

(5) Selection of Detailed Survey WUA Area

Phase-II Study was scheduled, as stated in the Inception Report, to establish hypothesizing countermeasures, to carry out detailed surveys as confirmation of the hypothesis, and to prepare Action Plans

Site selection for the detailed surveys in Phase II took into account the results of the Categorization of Problems and Constraints process, the experiences of the World Bank assisted Java based IDTO program, and the views of the Study counterparts.

Site selected for the Detailed Survey in Phase-II is presented in the table opposite.

(6) <u>Design of Database</u>

As a tool to support the acceleration of the establishment and strengthening WUA organizations, efficient irrigation management of WUA for the turnover program, a database for the water users' organization was designed during Phase I of the Study. Figure S.1 shows a conceptual flow for the preparation and collection of data adopted by the database, while Table S.3 summarizes the data menu of the WUA database.

3.2 Phase II Stage

(1) Objective Analysis and Countermeasure

The first task in Phase II was to undertake an objective analysis of the categorised problems and issues identified in Phase I and prepare hypotheses for countermeasures, and to prioritise these. Three hypotheses, were developed related to the following:

- Improvement of Farmers' Incomes,
- Government's Role,
- WUA Empowerment and Turnover of O&M responsibilities.

These were then presented in a Project Design Matrix (PDM) format. Four such formats were prepared covering the following aspects:

- Government, WUA and O&M aspects,
- Agricultural development programs for farmers,
- Agricultural development programs for Government assistance,
- Social preparation.

The countermeasures PDMs were then discussed at central government level.

(2) Field verification of Countermeasure

For the verification of countermeasures 25 irrigation schemes, located in 23 districts spread over the five provinces were selected, where the surveys, were undertaken. Four different verification approaches were applied, as follows:

- Field investigation in the detailed survey areas,
- Detailed field surveys
- Case studies,
- Trial formulation of irrigation O&M plan, using bottom-up approach,

1) Field Investigations in the detailed survey areas

Field investigations in the detailed survey areas were undertaken by Study team members who concentrated on obtaining the views of, village chiefs, WUA officers and similar level individuals.

2) Detailed field surveys

NGOs were recruited to undertake the detailed field surveys as Provincial Study Teams. These comprised reconnaissance surveys, and key informant surveys applying Participatory Rural Appraisals (PRA) methodology in 25 selected locations. PRA/PCM workshops were held at the field survey sites to validate the key informant and PRA data and to verify the countermeasure hypotheses.

The Provincial Study Teams then prepared reports of their field surveys and PCM workshops and these were presented at 23 kabupaten level workshops. The purposes of these were to: 1) complete the PDM, using the PRA results, 2) validate the completed PDM and allocate responsibilities, and 3) verify the countermeasure hypotheses. Similar workshops were held at 5 provincial level workshops and one at national level.

The main issues and recommended actions arising from discussions at the various levels were identified and summarised. Table 3.2.4 in the Report, for example, summarises the priority actions recommended at the irrigation scheme and district level workshops. The actions mentioned here are included in the overall Action Plans, which are discussed below.

3) Case Studies

One practical case study and five other case studies were undertaken.

The practical case study concerned Maintenance and Rehabilitation, in the Pekatan Scheme in West Nusa Tenggara, where a detailed walk-through was undertaken, with the farmers. Details of the works required to undertake maintenance and rehabilitation were prepared and the operational standard and capacity of the tertiary system was described.

Other studies, covering the following topics were prepared: 1) Rehabilitation of Irrigation Systems, 2) Irrigation Service Fee (ISF), 3) Participatory Training, 4) Capacity Building and Empowerment, 5) WUA Monitoring and Evaluation, and 6) WUAs' Function to Support Irrigated Agriculture.

4) Trial Formulation of Irrigation O&M Plan applying bottom-up approach.

Trial formation of irrigation O&M plan applying bottom-up approach was conducted at the Cipalebuh irrigation scheme located in Kabupaten Garut, in West Java. This scheme, comprising five WUA which were active but required considerable strengthening, had a rather mediocre O&M contribution record, did not have an equitable water allocation system and required some rehabilitation. As part of the activity, WUA members from this scheme were taken to another scheme in the same district, the Cimanuk irrigation scheme. Here, the individual WUA have formed a federation where considerable success has been achieved. There has been improved O&M practice, improved collection of O&M charges, the formation of a co-operative formed in association with the WUA federation and the participative rehabilitation of some parts of the irrigation infrastructure.

Detailed discussions were held with WUA officers and members and other key figures in the area with the purpose of examining the cause-solution of the problems and the proposed action plan and of seeking ways to implement the action plan in a practical and sustainable manner. Assistance was provided to the WUA members, who benefited from their visit to the Cimanuk scheme and from the discussions and the advice they were given.

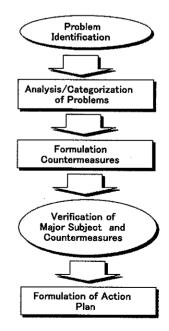
5) Verification of Countermeasure Hypotheses

Based on results of various surveys/studies mentioned above, the countermeasures on irrigation aspects have been verified to be applicable and acceptable countermeasures. Whilst countermeasure in irrigated agriculture aspects are not justified or effective under the present conditions of agricultural policies.

4 Action Plans

(1) Introduction

The objectives of this Study make reference to improvement of irrigation management and the empowerment of water users associations (WUAs) for the enhancement of "turnover" ("transfer of irrigation management authority") under the WATSAL framework. The Study has been careful to maintain the investigation and development at the grassroots, where our use of the term WUA refers to unit (either village or tertiary unit) based groups. It is from this basic approach that all Study initiatives including the generation of the Action Plan has been developed. In generating the plan a process of staged development has been undertaken, review, problem and constraints identification, analysis, hypothesis, and confirmation, developing the grassroots condition in terms of physical, institutional, organisational and financial, aspects (Figures S.3 and S.4). It should be noted that all processes used on the Study and proposed by it, are generated



Action Plan Formulation Process

from needs based assessment (AKNOP) and participatory methods. This process has been successively introduced and developed at each level of administration from the field to National level. Within this process the term WUA has been used in its generic sense, allowing it to encompass all structures currently envisaged as water user development.

To add clarity and emphasis in various sections of the report, the more specific terms of WAUF (Federated WUA referring to grouped WUA units) and IWUA (Induk WUA referring to grouped Federations based on secondary systems) have been used. To avoid confusion the term WUA has been used through out the report in its generic sense referring to all structural levels

The recommended Action Plan is split into three sections. Two concern irrigation and closely related issues, comprising preparatory works and main works; one relates to agricultural aspects.

Attempts have been made to include as many of the irrigation related countermeasures as possible within the main Action Plan and to arrange these into a reasonable number of discrete packages, or activities. As indicated in Figure S.5, there is a fairly logical sequence of related activities, with many merging into each other.

Despite the close relationship between the various activities it has been possible to identify ten, fairly discrete activity packages. Some are confined to a narrow range of issues, some encompass a wider field. It is recommended that this initial list of activities is viewed flexibly, and if other important issues arise or if it is decided to re-arrange the components between activities, the opportunity is given to modify the current plan.

The recommended irrigation sector related activities are as follows:

	Action Plans on Irrigation and WUA Management
Preparato	ry Activities:
	Public Awareness of Government Policy amongst Government Officials
Action-2:	Inventory of Irrigation System and WUAs
Core Activ	vities:
Action-3:	Public Awareness and Capacity Building at WUA level
Action-4:	Training of WUA(s) Leaders
Action-5:	Start-up Financial Assistance
Action-6:	Formulation/reformulation of WUA(s), GWUA and IWUAs
Action-7:	Kabupaten Irrigation improvement Fund
Action-8:	Improved O&M and joint management
Action-9:	Collection of ISF and Government Support
Action 10:	Rehabilitation of Irrigation System
Action-11:	Monitoring and Evaluation

It should be appreciated that if the Action Plan is implemented, it will have to board a moving train. Its objectives will include strengthening of activities which, in some cases, are already on-going, albeit many on a pilot or limited scale, as well as the introduction of some new concepts, as yet untried.

The situation within the country is currently quite fluid. The structures of Government departments are being changed, staff are being moved around, regional autonomy has yet to be properly established, foreign assistance is largely being held in abeyance and certain vital pieces of legislation have yet to be put in place. Some of the WATSAL activities have yet to be finalised. At the same time there is considerable political uncertainty, increased lawlessness and reduced respect for authority.

The Action Plan will have to work in these conditions, and adapt itself to changing circumstances. It will also have to be careful how it targets its efforts and funds. It would need, for example, to try to ensure that the majority of officials being trained would remain in post during the life of the project.

Whilst support is recommended at many levels, there are some important links in the chain which are already in place and it is anticipated that, as part of their routine activities, these will operate as and when required. With regard to agricultural extension, for example, the service has been in operation for many years, and in many areas has provided a valuable contribution. Apart from being encouraged to co-operate closely with any development initiatives being focussed on a particular irrigation scheme, it is not anticipated that, initially at any rate, any significant inputs would be required from the Project

(2) Action Plan Activity Details

Brief descriptions of the various activities are given below

Preparatory Works

The following three activities would be undertaken mostly away from the irrigation systems and the communities where the recipient farmers live. These are activities designed for a particular area, and are viewed as preliminary requirements that need to be undertaken before the remaining activities can be initiated. It is viewed that as the Project horizons widen, new areas will be brought in and the preparatory activities initiated.

It should be appreciated that in the context of regional autonomy, most of the following activities would need to fit in with the implications of this new policy, and the Project should be prepared to adjust itself to work with the district level authorities to ensure that their overall development program is well integrated and efficient.

Action 1: Public Awareness of Government Policy amongst Government Officials

Most Government officials must already be aware of the changes going on around them. It will be important for this Project that all those officers involved have a clear understanding of current Government policy and are aware of the role which they will be expected to play within the Project. They should also be able to identify their own strengths and weaknesses and to make known their requirements for capacity building and training, and judge whether they can see a place for themselves in the changing development process. Many officials have been severely impoverished since the onset of the financial crisis and the major reductions in Government budgets; many have also found that their roles have become less clear. Without the willing co-operation of Government staff, the success of this Project would be seriously compromised.

This activity will help to provide the public awareness, communicate with the Government officials from Provincial to sub-district level, encourage them to identify their needs and provide a channel through which they can feed their requirements back to those who can provide further assistance.

Action 2: Inventory of Irrigation Systems and WUAs

Without a detailed and accurate inventory of irrigation schemes, it would be very difficult to prepare a rational campaign plan. Although many details are available, and an inventory, without detailed mapping, was produced around a decade ago, it is considered necessary that a new, nation wide standardised inventory is prepared, incorporating, where available, materials that have already been prepared.

The recommendation is that activity should comprise six sub-activities as follows:

- a Major Irrigation Scheme Inventory Updating Program, (schemes > 150 ha),
- a Small Scale Irrigation Scheme Inventory Updating Program, (schemes < 150 ha)
- a Water Resources Related National Asset Database Installation Program,
- a WUA Inventory Provision Program,
- an Irrigation System Assessment Program,
- an Irrigation Scheme Rehabilitation Proposal Competition Program.

An inventory of WUAs would be prepared, utilising the WUA database facility which has been initiated under the auspices of this Study. Inputs in both Phase 1 and Phase II involved it's construction, the training of operators and its post field trial modification.

Main works

Once the decision has been made which irrigation systems and related WUAs are to be included in the Project, the sequence of activities discussed below will be set in motion.

Conditions will vary by scheme; WUAs maybe active, partially active, inactive or absent, some WUA will require strengthening, others will need to be disbanded and reformed. Some schemes will be in good condition, many others will require rehabilitation. Some will be virtually ready for turnover, others will be far from this position.

According to the specific requirements, it will then be decided which activities are relevant to the needs of a particular scheme. Where there is little or no WUA activity, it will probably be necessary to start at the beginning with the WUA level public awareness program. For better developed schemes it will be necessary to determine which activities are relevant, and implement them accordingly. Starting from the beginning the proposed main works activities comprise the following:

Action 3: Public Awareness and Capacity Building at WUA level

This is an activity which would be required if it is seen that most farmers are not yet aware of Government policy regarding turnover, and the implications this has for them in terms of WUA formation, the gradual shifting of responsibility for O&M to the farmer and the consequent reduction in Government subsidies. Many farmers will also need to be made aware of the principles of joint management and the new policy regarding rehabilitation-after-turnover.

This process may be quite a gradual one, and could well be accompanied by other activities aimed at building up the capacity of any WUA officials, if they exist, and/or farmers. Before farmers are in a position to take positive action with regard to creating soundly based WUA, many will need considerable support.

Action 4: Public Awareness and Capacity Building at WUA level

This is an activity which would be required if it is seen that most farmers are not yet aware of Government policy regarding turnover, and the implications this has for them in terms of WUA formation, the gradual shifting of responsibility for O&M to the farmer and the consequent reduction in Government subsidies,. Many farmers will also need to be made aware of the principles of joint management and the new policy regarding rehabilitation-after-turnover.

This process may be quite a gradual one, and could well be accompanied by other activities aimed at building up the capacity of any WUA officials, if they exist, and/or farmers. Before farmers are in a position to take positive action with regard to creating soundly based WUA, many will need considerable support.

Action 6: Start-Up Assistance

This activity is designed to provide start-up financial assistance to support WUA during their early formative period. This is a form of assistance where there has to be a fine balance between providing the type and amount of support which is sufficient to create a positive impact whilst, at the same time, avoiding perpetuation of the Government dependency syndrome which has become ingrained in the minds of so many.

Action 5: Formation and re-formation of WUA, WUAF and IWUA

It is now appreciated that many of the 35,000 plus WUA which are said to have been established, exist in name only. Many others set off on the wrong foot, and are currently structured in such a way that they cannot, in their current form, ever hope to function as a WUA should. It is also estimated that for considerably more than half the nation's irrigated area no WUAs exist.

A new approach to WUA formation is recommended, where farmers make the decisions and democracy is the watchword. Farmers will be encouraged to build on any traditional organisations with which they are familiar and to create the type of organisation they consider appropriate. In some areas it will be necessary to abandon existing WUAs where there is no chance of them becoming viable units. Elsewhere there will be possibilities to work with the sub-optimal structure, modify it and gradually develop a viable unit. Many WUA have been top-down created with local Government officials being appointed to the key positions. Whilst the formation process may have been flawed, many of the staff have performed valiant and effective roles; they might well find themselves in elected positions if a democratic establishment procedure were to be adopted.

The purpose of this activity is to assist farmers to establish viable WUA and, where relevant, once the individual WUA are functioning properly to assist in the formation of WUA federations (WUAF) and scheme level WUA federations (IWUA). The main input is technical assistance and community support.

Action 8: Kabupaten Irrigation Improvement Fund(KIIF)

It is recommended that this Project works alongside other projects in developing funds, such as the KIIF, and assisting staff in the handling of such funds, in improving their decision making and M&E skills.

Action 7: Improved O&M and Joint Management

Once a WUA has been formed and is moving towards a position where it will be wishing to enter into a joint management agreement with Government there will be a need for continued support for technical support. This would be required throughout the transition period, up to the time when the scheme is ready for turnover. Thereafter it is anticipated that any further support would be provided through the routine activities of the relevant Government agency. Prior to and during this transition period it is proposed that, under other activities included in the Project, farmers would receive training and would be assisted with aspects related to water charges The main input under this activity would be technical assistance, provided primarily by Government agencies on issues such as the preparation of cropping calendars, the development of water operation schedules with particular focus on distribution during periods of water shortage and the preparation of irrigation system maintenance schedules.

The other main input would be to assist WUAs in drawing up joint management agreements, identifying exactly what each party would be responsible for, and drawing up a schedule of how the WUA would gradually take over more responsibility.

Action 9: Collection of ISF and Government Support

This is just one more issue, which the WUA will need to deal with, but because of its fundamental importance it has been identified as a separate activity. Technical assistance will be provided to assist farmers in undertaking system walk-throughs, estimating needs-based real O&M costs, setting water charges according to the service delivered and the type of water-user, identifying in what form payment will be made, organising collection, dealing with reluctant payers, absentee landlords, illegal abstractors, book keeping and a host of other related issues.

Action 10: Rehabilitation of Irrigation Systems

It appears that on many schemes there is a need for rehabilitation where problems have arisen which are beyond the scope of repair under normal routine maintenance inputs. The new policy is that schemes will need to be turned over, before they can be rehabilitated. One activity here is to provide technical assistance to WUAs to help them prepare rehabilitation proposals, identify what counterpart funding/contributions, the farmers will make and submit the proposal for funding.

The second, major, input would be funds required to supplement the farmers' contribution to implement the rehabilitation and supervise construction and quality control. Once the KIIF pilot schemes have completed their task and purpose such funds should be made available.

Action 11: Monitoring and Evaluation

Whilst most activities will be required to keep detailed records of their activities, and to some extent assess the impact that they have had, it is recommended that a separate M&E unit should be established. This would check the accuracy of the aforementioned records, and in some cases take on the assessment of impact beyond that which the individual activities would precede. The unit would be responsible for looking at all the activities within the Action Plan, identifying where there are any weak links and provide the information required to allow the Project to adjust the various activities as the Project proceeds.

It is recommended that it would heavily concerned with the WUA monitoring and ranking procedures that are discussed in detail in the Report

(3) Agricultural Enhancement Plans

Action 12: The Agricultural Enhancement Plans

There are many problems in the agricultural sector; in many respects the situation is worsening. Whilst it is not within the context of the main Action Plan to take on these issues and whilst it would be possible to proceed with the main action plan without any improvements in the agricultural sector, the need for change cannot be overstated. The key to securing farmers' co-operation with the new irrigation management policy is that they obtain good returns from their irrigated cropping. The better the returns, the more able and, probably, the more willing they would be contribute towards full O&M cost.

One area where there could be a direct tie up between the agriculture and irrigation action plans concerns the development of agri-business and the harnessing of the power of an active WUA. Whilst it is not recommended as an initial activity, once WUAs become viable, there could well be the possibility of forming co-operatives and engaging in income generating activities

(4) Action Plan for Public Relation of Irrigation and Irrigated Agriculture

"The indirect action plan" which is shown below, is the contents that the dimension is different completely from "the direct core action plan" which was described to enhance the transfer of the irrigation O&M. On the occasion of the proposition of "the indirect action plan", some intentions are considered to push 1) Not pour funds so much, 2) Available to utilize existing social infrastructures,, 3) To meet with "enjoying a life" character of the people in the country , 4) To call back "the social pride" which was cultivated from the ancient times in the psychology of the people, 5) To decrease the intervention of "the administration", which has lost the trust of the people, 6) To provide occasions to accomplish things with the people's cooperation, 7) To imprint viewpoints that the role of task sharing and efforts by the individual to ensure their own subsistence is necessary.

(5) Implementation of Action Plan

Action Plan shall be implemented, firstly, at the pilot kabupaten as package program applying recommended actions. Based on these pilot schemes, the detailed procedures and guidelines shall be formulated for the implementation in national-wide.

The National Water Management Program is going to operated by donor countries/institutions under the IBRD initiative. In order to coordinate the activities for the implementation of the new irrigation management policy in pilot Kabupatens, a coordination committee composed with government agencies and other institutions as same as the member of steering committee for the JICA Study, shall be formulated.

The proposed plan of implementation of the Action Plan is shown in Table S.4, applying the Plan of Operation of PCM, indicating, the outputs, target person/groups, executing agencies, role of responsibility of each action.

(6) Action Plan and WATSAL Final Results

Within the period of the Study Phase I (April to November 2000) and Phase II (January 2001 to final presentation October 2001) many changes have occurred. Terms have altered, new legislation has been enacted, institutional structures created and dissolved, and ideas conceptualised tried and tested. While every effort has been made to accommodate these changes within the Study the project has not operated continuously since it's inception, and phase II (draft final) completed on June 2001.

Owing to these restrictions, several pertinent and important issues have not had the full benefit of the Study Team's attention and should really have been investigated as part of parallel studies. Agricultural and agrarian policy reform, are examples of such issues that impinge strongly on tenant farmers incomes and their ability to contribute both in financial and membership terms to organisational development.

Within the scope of the action plan (Action 7) the concept of Kabupatan Irrigation Improvement Funds (KIIF) and good governance are aspects that have not had thorough investigation and development from the Study. While the concept of KIIF is undoubtedly worthy of trial there are pitfalls to be avoided, capacities to be tested, and financial control transparency and audit to be put to use. For example, should these funds operate as roll-over funds, should they be circular funds, contributory funds, or how should they operate. While this plan is supportive of the concept of KIIF for the purpose of pilot development, it is felt that if the initial indicators are encouraging then expansion to other areas should capitalize on these results as soon as possible. Contributory funding is an important part of the successful operation of this fund, but the exact details of these mechanisms are yet to be determined.

These and other aspects of the plan are presently dynamic, the final form and incorporation into the 'Action Plan' must be left as flexible as possible to allow for change and alteration in the light of practical experience once pilot development has started. At this stage it is emphasised that many measures, constraints, and concepts have been investigated and the plan presented here, is under the current circumstances, the Study Team 'best fit' to the prevailing conditions, both at the field level and within the structural framework of the plan.

5. Conclusions and Recommendations

5.1 Conclusions

- (1) Applying the concept of, "Full Cost Recovery" to the target number of irrigation schemes for better O&M of infrastructure facilities, the Government's record of turnover over the last 20 years, is exceptionally poor. It is difficult to identify sustainable program oriented plans, which would show how much investments have been made for establishing required infrastructures to support the peoples' staple foods, or how many irrigation schemes have been provided and at what costs. On the other hand, farmers engaged in irrigated agriculture who are the object of this Study are already carrying out income diversification activities in order to sustain their livelihoods. Farmers have a mental and economical dependence on irrigated agriculture, even though many irrigation facilities are in rapid decline. It is unfortunate that under the present condition nobody, neither government staff, nor farmers acknowledge or take responsibilities for current failures and low achievement rates.
- (2) What is required from governments now, is creativity and self-reliance. Such characteristics happened to be those most repressed ones under previous governments. Administration skills, and the ability to ensure and manage local budgets with transparency and efficiency, are those most urgently required.
- (3) Most farmers engaged in irrigated agriculture never have occasion to be involved in the planning of irrigation schemes above the level of tertiary and quarterly blocks. Under the present conditions a "sense of ownership" is only possible for farmers within the vicinity of their farm plots and irrigation systems, but 'ownership' is not so strongly felt for trunk facilities, like intakes and primary/secondary canals. In most rural communities tertiary and quaternary irrigation systems have been maintained well by local farmers, as one of their rural community activities. For enhancing transfer of irrigation O&M by WUAs, and to accelerate establishments of WUA, it is often unavoidable that initial attempts must take account of traditional rural organizations. From this starting point efforts must be made to reform their awareness to accept the concept of "Full Cost Recovery". This huge change in awareness may only be tempered by the introduction of the intermediate step of "joint management", an undefined temporary stage whereby government and WUA join forces under a jointly agreed informal association, to undertake and understand the necessity of O&M of trunk irrigation systems.
- (4) It is not uncommon to find that downstream farmers are frequently found illegally abstracting water to express their discontent with upstream farmers. Previously government officials have done little to become involved in farmer disputes particularly in the issues of irrigation O&M. The JICA Study Team examined the contents of the Action Plans, based on these understandings, the importance of "Participatory Decision Making Procedure (RRA, PRA and Problem Analysis Procedure of PCM) as applied in this Study is recognized.
- (5) "Unification in diversity" was adopted as the motto for managing the country from Independence to present times. Whilst the consultant was aware of the " diversity of culture according to the area" at the time the study commenced, it was also recognized that this cultural diversity did not deeply affect the diversity of irrigation and O&M. An "Irrigation system" is one possible way that unification can be achieved in the field situation, regional differences in landform conditions and

traditional water management regime may also characterize an individual scheme. The introduction of the concept of full cost recovery for secondary and primary systems mainly by WUA federation, not unit WUAs will take time. As for the issue of establishing unit WUAs, it was recognized that "Cultural diversity" does not share a large part of factors defining whether members would like to establish WUA or not. Conversely, the issue of whether persons with potential leadership qualities capable of directing community people into joint action, are available and willing to take command, is often a more important aspect.

- (6) Against a background of low achievement of O&M transfer it became clear that serious "distrust" exists between farmers and government staff. Farmers have no sense of ownership for the irrigation facilities constructed by past government initiatives. It is also evident that "internal distrust" among strata and sectors of various government agencies exists. Action Plans identified by this study have preceded from viewpoints of " an awaking sense of ownership" and a "creation of partnership", based on attempts of arousing "trust in the society".
- (7) Until recent times the government has maintained most of the existing irrigation schemes and the O&M activities, rather like a ,"government one-man show". This has impacted on farmers' creating a weak sense of ownership and rarefied partnerships, such history and background are quite evident. The 'step by step' Action Plans described in this report makes dealing directly with local governments and farmer a starting point, but are really attempting to provide a model development plan based on the future concept envisaged under WATSAL. The Study Team understands that the government can not wait until all necessary processes and institutional building have been completed before commencing actions to, mobilize all available resources, to solve the problems confronting farmers and local governments. For example, it is already possible to set target levels and commence the establishment of unit WUAs. Also, within the existing framework of present laws and regulations, it would be possible for kabupaten to establish "Coordinated WUA Support Fora".
- (8) Creation of willingness to formulate WUA federation could be promoted through efforts strengthening the capability of WUA to conduct problem finding and self-management. An important key to such development could be a government initiative supporting the use and popularization of many WUA "success stories". It will be important for government to collate shared experiences of solving problems with farmers and out sources like NGOs, like the IDTO schemes for realizing "the success stories".

5.2 Recommendations

(1) Action Plans and WATSAL

Action Plans of this Study, based on the transfer of irrigation and O&M as the main subject, have been constructed to meet the policies of WATSAL. Government has been trying to provide a policy framework for water resources development and utilization, that considers points of view from farmers and local government staffs who are involved with irrigated agriculture. Even though this framework is still not complete, particularly in the matter of the details of the decentralization policy, the Action Plans are arranged so that they can be progressively developed. It is recommended that Government shall concentrate on the implementation of the Action Plans in the early stage, encouraging the local governments that will become the centers of the local administration in near future.

WATSAL is the structured adjustment loan, affecting water resource management. A condition to this loan is the reformation of water resource policy, requiring a new policy framework to suit Indonesia's attempts to realize decentralization now. It is the kind of policy framework that requires considerable more effort expended before details providing linkages with the actual laws and regulations to be utilized at field levels will be available. In particular, in the implementation of decentralization that has just started, adjustments among provincial and district governments concerning issues of cost allocation for developments, operations of rivers and water resources, and the water right interpretation. How ever it should be noted that not one technical irrigation system has been completed during the last two administrations.

(2) Irrigated Agriculture

Even though it has recently been reviewed Indonesian agriculture seems to be governed by complicated administrative structures, involving many ministries and agencies. Such administrative conditions complicate the task and responsibility allocation for any irrigated agricultural issues. Present situation of farmers and local government staff appear to be under non-political direction; Government has not yet issued definite state policy on agriculture, especially on irrigated agriculture. The provision of a detailed plan, emanating from a national agriculture policy involving irrigated, upland, plantation, support and market divisions, should be a Government priority. Through the provision of such a plan, aspects such as the transfer of irrigation and the organization of O&M, which the Study has dealt with, should be incorporated this document. Other issues that impinge on the development of irrigated agriculture such as provision of agricultural chemicals, an effective farmer credit system, the reform of the KUD and further development of IPM systems, also require urgent attention and should be similarly incorporated in this document.

(3) WUA Database Operation

To enhance the transfer of O&M of irrigation, and with due acknowledgement to constraint imposed on farmers, it is important to define the target of the number of WUA(s) that should be established within the next term. The WUA database established under this Study comprises information fields, of WUA organization, WUA activities, and conditions of crop cultivation, O&M management, name of respective irrigation scheme and its canal system at tertiary level. It is strongly recommended that this example can be used as a prototype of "WUA Inventory" proposed as one of the Action Plan. It can be easily adapted to provincial and districts level conditions. The structure, the contents and the operations, including setting-up necessary Information Technology (IT) infrastructure, of the database are already completed and compiled into CD-ROM and been delivered to related province and district governments

during the Phase II of this Study.

It is recommended that Government should make it a policy directive that all provincial and district authorities provide compatible WUA Inventory databases as the preliminary preparation for O&M transfer, making the results available to all interested parties.

(4) Other Issues

Many constraints exist in the background of the subjects of this Study. It is evident from our surveys that traditional landholding systems remain a prime constraint on farmers, causing conditional poverty. It is obvious that farmers can not improve the land productivity, incentive to these farmers is limited and their ability to pay water charges will not be expected to improve under current tenancy impositions. It is observed that often societies surrounding small-scale irrigated agriculture will impose some direction on generally restraining farmers from their own preferred cropping patterns.

It is recommended that Government should start a sincere effort to review the traditional landholding system in parallel with this project.

Owing to the severe constraint that are endured by many tenant farmers and some lower local government assistants, the social livelihoods of these people are such that they can at best expect only a subsistence existence. Under such an existence it is often impossible for these people to think outside of their 'immediate needs'. This syndrome makes it particularly difficult for these people to join any social initiative programs aimed at improving their existence. Such poverty cycle can only be broken by direct intervention at the grass roots level. Government should keep it's convictions to recover "Social trust" among the people, to stir their self-help efforts and competitive spirits for re-creating social duties of them, when Government is going to apply the Action Plans.

Over past decades the Government has adopted a policy of development using loans and grants offered from the international donors as a large part of necessary financing of national development projects. It is suggested that for future development the government should aim to reduce its' reliance on such heavy external funding in this sector. Before accepting international donor development as the only way it is suggested that local and provincial governments should look at the potential for self-funded development. Better debt management and less reliance on international funding should also be an objective in the future of this sector.

Breaking away from the past government attitudes over 400 years, including the half-century from the independence has just began today for the people of Indonesia. A lot of problems are yet to manifest themselves, while society should benefit more from sharing in the national wealth. Unless people are prepared to share the burden of countermeasures, the mountain of problems will increase. The Government should continue to concentrate efforts to re-create a climate of "trusteeship", which should be a foundation of the activities of the society. At the same time attempts to develop capability to grasp the present situation for contributing to "the public service" as the precondition to solving problems that have already accumulated.

Table S.1 Work Items of the Study

	Stage	No.	Work Items
	S	【1】	Collection and analysis of available data and information relevant to the Study
	Preparatory Work	【2】	Formulation of the Study methodology and implementation plan
	eparato Work	【3】	Preparation of Inception Report
	Pre	【4】	Explanation and discussion on the Inception Report in Japan
		[5]	Explanation and discussion on the Inception Report
		[6]	Preparatory works of the Field Survey (1)
			Collection and analysis of additional data and information
		[8]	Analysis of organizational and institutional aspects
Г		【9】	Analysis of physical and social structural aspects
PHASE		[10]	Analysis of operational aspects
γH¢	Field	【11】	Rural sociological survey of WUAs
H	Survey (1)	【12】	Questionnaire survey of WUAs
		【13】	Categorization of problems and constraints
		(14)	Selection of detailed WUA survey areas
		【15】	Design of data-base
		【16】	Preparation of Progress Report I
		[17]	Explanation and discussion on Progress Report I
	Work in Japan (1)	(18)	Preparation of Field Survey Results Report (1)
		(19)	Preparation of Interim Report
		(20)	Preparation of the Field Survey (2)
		(21)	Explanation and discussion on Interim Report
		(22)	Formulation of the countermeasures for the categorized problems and constraints
		(23)	Detailed survey of WUA areas
		(24)	Case study of WUA areas
		[25]	Identification of the important issues and analysis of the problems and constraints
		(26)	Confirmation of problems by the participatory approach (inspection of important problems)
	Field Survey (2)	【27】	Preliminary formulation of irrigation O&M and management plan by bottom-up method (identification of countermeasures)
		【27'】	Provincial and kabupaten workshops of detailed WUA survey areas
		[28]	Evaluation of the countermeasure alternatives
П		(29)	Formulation of the Action Plan for the acceleration of the Irrigation Turnover Program
PHASE		[29']	Technical transfer of WUA database to counterparts and Study Provinces and trial of data input at Kabupaten Bandung
Р		(30)	Preparation of Progress Report II
		(31)	Explanation and discussion on Progress Report II
		(32)	Report the results of Field Survey (2)
	Work in	【33】	Preparation of draft Final Report
	Japan (2)	【34】	Preparation of seminar
	Field	35	Explanation and discussion on the draft Final Report
	Survey (3)	[36]	Conducting seminar on the results of Study
	Work in Japan (3)	[37]	Preparation of Final Report

	Sou	irces		P	rovince	es	
Descriptions	QS	RRA	W.S	W.J	DIY	E.J.	NTB
A. INEFFECTIVE SOCIALIZATION							
A.1. Top down approach (centralized)		~	Н	Н	М	М	М
A.2. Local government was not given autonomy fully		<	Н	М	М	М	Н
A.3. Local government depends decision & fund on central government		~	Н	Н	М	Н	Н
A.4. Policy & action on irrigation. management not meet local need		~	Н	Н	М	М	Н
A.5. Indicator of WUA' status not indicate WUA functioning		~	Н	М	М	М	Н
B. LOW FUNCTION OF WUA							
B.1. Poor Management of WUA		×	Н	Н	L	М	Н
1.1. Meeting were not conducted regularly (%)	~	×	76	89	15	58	73
1.2. Meeting were not recorded properly (%)	~	~	54	82	15	47	65
1.3. Meeting was conducted less than once a season (%)	~	~	68	59	35	51	71
1.4. Collected ISF was not transparently managed (%)	~	~	73	90	30	53	70
B.2. Majority of members not paying ISF (%)	v	~	78	68	29	59	70
2.1 Majority of members never seen cash book (%)	v	~	76	88	30	61	70
2.2 Collected ISF was not reported (%)	v	~	68	83	20	60	69
2.3 Majority of members not know using collected ISF (%)	v	~	58	75	10	57	88
2.4 WUA members were not able to pay cash (%)	v	~	54	93	5	31	46
B.3. Rehab. is eventually done by <i>gotong royong</i> (%)	~	~	94	76	100	84	97
B.4. WUA members not trust official		~	М	М	L	М	М
B.5. Members not appreciate official		~	М	М	L	М	М
5.1 Members not recognized sanction (%)	v	~	61	88	60	54	82
5.2 Deviating members were not punished	~	~	77	76	67	42	62
B.6 WUA officials were signed by the government (%)	~	~	56	69	67	72	82
B.7 Low participation of members on tertiary level (%)	~	~	13	7	15	9	41
C. WATER DISTRIBUTION							
C.1. Low water availability for paddy field	✓	~	100	72	69	82	86
1.1 Intersector water competition		~	М	Н	Н	Н	М
1.2 Intercrops water competition		~	L	Н	Н	Н	М
1.3 Water resource degradation	v	~	38	40	48	33	45
1.4 Water was not evenly distributed (%)	v	~	68	85	65	44	82
C.2. Facilities were not well function	~	~	28	61	30	10	64
2.1 Terminal facilities were inadequate			Н	Н	L	М	М
2.2 Irrigations construction system were inadequate (%)		~	49	75	30	13	47
2.3 O&M was dysfunctional	~	~	22	53	33	26	90
C.3. Rehabilitation by WUA was poor	v	~	Н	Н	Н	Н	Н
C.4. O & M budget was inadequate	v	~	69	64	36	42	71
4.1 ISF collection was low	v	~	78	68	29	59	70
4.2 In adequate government budget		~	Н	Н	Н	Н	Н
C.5. Need of alternative water acquisition was high	~	~	100	72	69	82	86
C.6. Conflict among members of up-middle-down streams		~	М	М	L	М	М
D. LOW TURN OVER							
D.1 Water was miss-allocated		~	М	М	М	М	М
1.1 Income from farming was low (Rp. Million/ha/year)	~	~	2.7	3.76	2.44	3.71	4.22
1.2 Farming orientation was still subsistence (ha)	~	~	0.79	1.1	0.3	0.78	0.59
D.2 Percentage of tenant farmer was still high (%)	>	~	10	43	36	6	34
D.3 Out of migration of farm labour (%)	>	~	44	13	52	15	14
D.4 Average cultivated land area was low or limited (ha)	>	•	0.85	0.77	0.35	0.8	0.59
D.5 No readiness to turnover of WUA members (%)	~	•	14	74	20	17	67
D.6 Yield production was still low (ton/ha)	~	•	3.2	4.4	4.2	2.5	3.6
D.7 Pests and diseases were still high (%)	×	•	55	21	68	25	43
E. Cultural aspect were internalized in local living arrangement, e.g.:- pattern o		-	- Ŭ		local tra		-
E.1. Low involvement of Women in WUA decision making (%)	~	v	18	9	8	<1	5
E.2. Local leadership more effective		~ ~	M	H	L	H	H
E.3. Local institution in water management were strongly trusted		•	М	Н	L	Н	Н

Table S.2 Summary of Problems identified by Questionnaire and RRA Survey

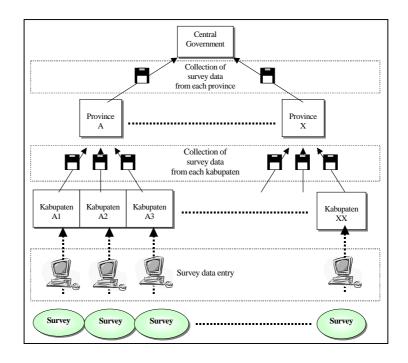
Notes :

QS = questionnaire survey, RRA = rapid rural appraisal, H= high, M = medium, L = low W.S.= West Sumatera; W.J.= West Java; DIY = Daerah Istimewa Yogyakarta; E.J. = East Java NTB = Nusa Tenggara Barat

Table S.3	Plan of	Operation fro Action Plan
		· · · · · · · · · · · · · · · · · · ·

			Target				Implen	nemteri	inn Si	ohadu	de .		
No.	Activity	Expected Results	Parsons/Beneficiaries	Person in Charge	Engle menter	Start line		3				9 1	0 Remarks
1	Public Awareness of Government Policy amongst Government Officials		Gentral and Regional government officials	Central : Kospranell Province: DAPPEDA, Pengainan, Perbanian Eabuguiten: DAPPEDA, Pengainan, Perbanian	PMU: Consultants Field Activities: PTGA	Completion of MIATSAL							
	have also also an a la fina de	 Covernment Officials are true civil servant and facilitator Clarify the present condition of inigation schemes/WUA.tor the manatoring. 	discussion enhances	Central : DWPM of DOWP, Regrissed	PMU: Consultants at central		-		-	+ +	-		
2	inventory/tornulation & updating	 Gang Tai get set conden to ing and in channels would be nerved ing to termulate policy and and national asset management. 	and BUA Including BUAP and BUA	Carran - Carros de Contre, integration Province: Chara Pengahin Radugation: Dinas Pengahin & Portantan	Revel Field Activities: local consultants and imigation Supervisors and PPL	Investory							12: Large & Dnail Scale Scheme Inventory 3: National Asset Database 4: WUA Inventory 5: Imgation System Assessment 6: Imgation Scheme Rehabilitation Proposal Competition
3	Public awareness and capacity building at WUA level	Formers can readeb government policy of irrigation management turnever program at field level	All WUAsifarmors	Central : DMPM of DOMP, Kingrasul Province: Dinas Pengalian, PT0A Kalkupaten: Dinas Pengalian & COs	Kabupaten: Dinas Pengainan, WUA Coantinated Support Farran and COs Farwers	Completion of WATSAL							_
4	Training WUA leaders	Ability of trained WUAV leaders to organize participatory action pilaming and implementation locally with their neglective WUAV members for suchainable terming intigation		Central : DMRM of DGMR, Kingrasuli Province & Kabupater: Dinas Pengairan and WUK Coordinated Support Farwin	Kabupaten: Dinas Pengainan, BIUA Coontinated Support Penan and COs Farteen:	Completion of WATSAL							
5	Starl-up Assistance		All WUAsibamens not yet hunclioning	Central : DMRM of DGMR, Kingrasel and Bangda of MOHA. Province & Kabapater: Dinas Pengainan and WUR. Coordinated Support Forum	WUA Coentinated Support	Completion of WATSAL		2					
6	Formation indomnation of WUA and WUAF		All NU.Vaifarmins not ellectively spenaled	Central : DMRM of DOMR, Regeneral Province & Kabapater: Dress Pengahan and WUA Caondinated Support Panam	Kabupaten: Sinas Pengairan, WUA Coontinated Support Faman and COs Plarmens	Completion of WATSAL							
7	Kobupaten Inigation Improvement Fund	Katupaton gevernment	All stakeholders of inigation schemes including dovernment	Central : DMPM of DOMP, Ningraswi and Bangda of NOHA. Province & Kabapater: Dinas Pengairan and WUK. Caordinated Bugport Panam	and WUA Coordinated Support	Completion of WATSAL							
a		Movimum number of fully functional IRUA under the collaboration between WUAdomens and Government	All stakeholders of inigation schemes including Government	Central : DWRM of DOWR, Kingraswill and BAPPENAS Province & Kabapater: Dinas Pengairan and WUR. Coordinated Bugsont Fanan	Kabupaten: Dinas Pengairan, WUAFs and Barners,	Completion of WW/TSAL							
9	Support	Dial budgets, of collecting the lee from the water users, and disbursing the	All stalleholdens of intigation schemes including Government	Central : DMRM and DRs of DRMR, Kimpravel and BMMSDM of MONA Province & Kabapater: Dinas Pengainan and WUR. Coordinated Bupport Forum	Kabupaten: Dinas Pengairan, WUAFs and tamers,	Completion of WATSAL	# 1 .						
10	Rehabilitation of Imigation System	irrigaled areas brought back hilo good working condition to maximize returns to investment in rehabilitation.	All farmens and WUA. under the exteting deteriorated intigation schemes	Central : DMRM & DPa of DOWR, Represent & BAPPENAS Province & Kabapater: Dress Pengelnen and WUA Caordinated Support Planam	Kabupaten: Dinas Pengainan, WUWFs and farmens, and contractors	Completion of WATSAL							
		Monitor and evaluate the progress of Aetion Plan and imigation management. turnover and provide the approprietile countilemeasures Titley are reputed. Executed and because the back case addets are used to be acent increased.	inigation schemes induiting dovernment	Central : DMPM of DOMP, Regrand and BAPTENAS Province & Kabupater: BAPTEDA & Drast Respiration	PMU: Consubriti, Kingraswi and BAPPEHAG Provincial & Kabupater: Kingraswii & BAPPEDA	Completion of WATSAL							
	Agriculture enhancement plan	Famers' caritolines and their own initiative cauld be the most important requirements for the success of any tarver activities on a sustainable look. Then agricultural income increase.	Farmers	Central: Conter of Agricultural Extension, MOA Province & Kabapater: BAPPEDA & Olines Petanian	Extention system formulation by Consultants at central level Extension service by PPL and Farmers	Innectably							
Net		Pilot Kalaqates inglesnerittiin Persentes store											

Preparatory steps implementation in all provinces in Indonesia





Category	Items
Category	
WUA General Information	1) P3A_Status 2) P3A_Federation 3) P3A_Federation_Member
Irrigation Scheme	1) Irrigation scheme 2) Tertiary irrigation drainage system
ISF	1) P3A_ISF
Management and Guidance for	1) P3A Training
empowering the existing WUA	2) P3A_Evaluation
Irrigation Management	 P3A Identification P3A_History P3A_Land P3A Institutional structure P3A Organisation P3A_Fees P3A_Function_Water_Distribution P3A_Maintenance_practice P3A_Activity_Meeting P3A_Sanctions P3A_Unit_Production P3A_Management_Administration Government Role
Food crops agriculture in paddy field	1) P3A_Technical_Aspects 2) P3A_Pests_Diseases 3) P3A_Costs_Production
Food crops agricultural activities	1) P3A_Agricultural_Activities
Farming activities for perennial crops (Fruits trees)	1) P3A_Perennial_crops 2) P3A_Agricultural_business 3) P3A_Crop_Yield
Farming activities for Animal husbandry	1) P3A_Livestock 2) P3A_Managing_animal 3) P3A_Livestock_Food 4) P3A_Cost_Value_livestock_activity
Water management and	1) P3A_Water_management
Institutional aspect and farmer's perception	1) P3A_Institutional_aspect
Off-farm income	1) P3A_Off_Farm_Income

Table S.4 Data Menu of WUA Database

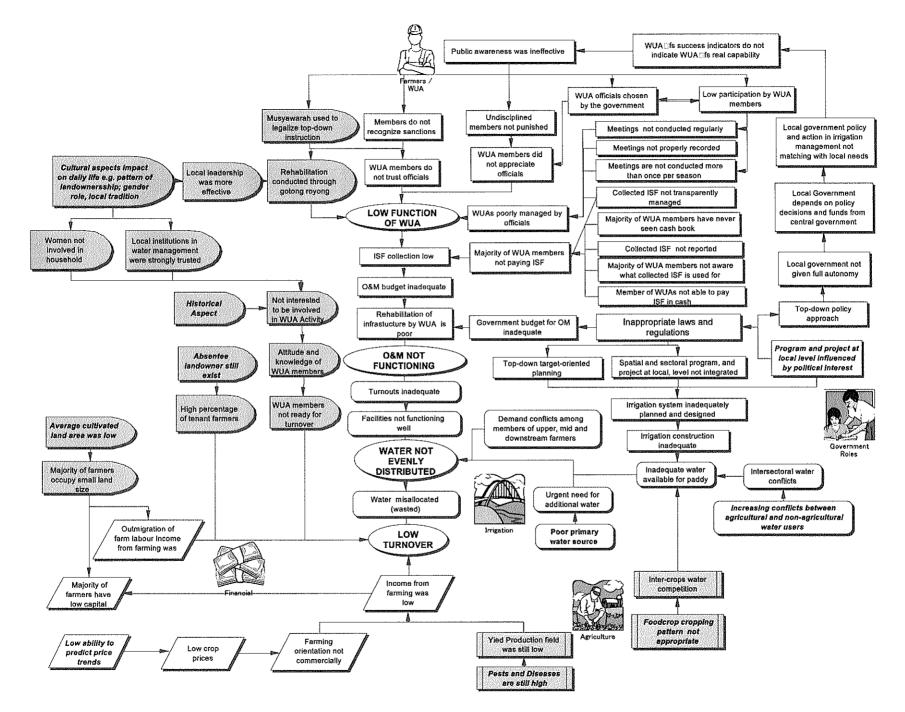
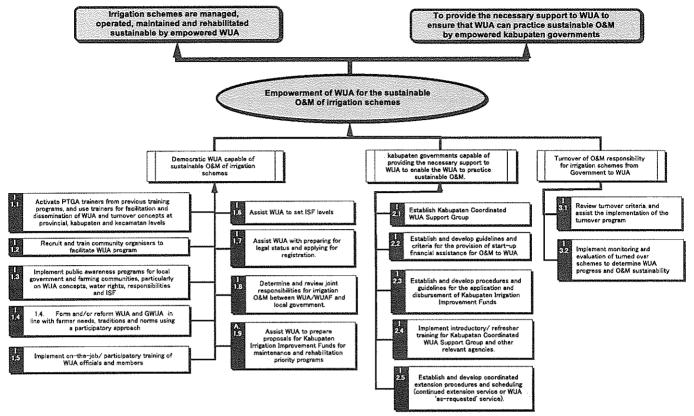


Figure S.2 Comprehensive Problems on Irrigation and WUA Management





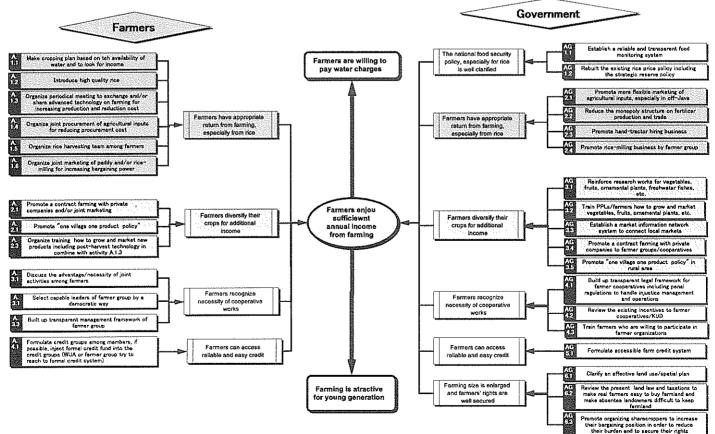


Figure S.4 PDM of Irrigated Agriculture

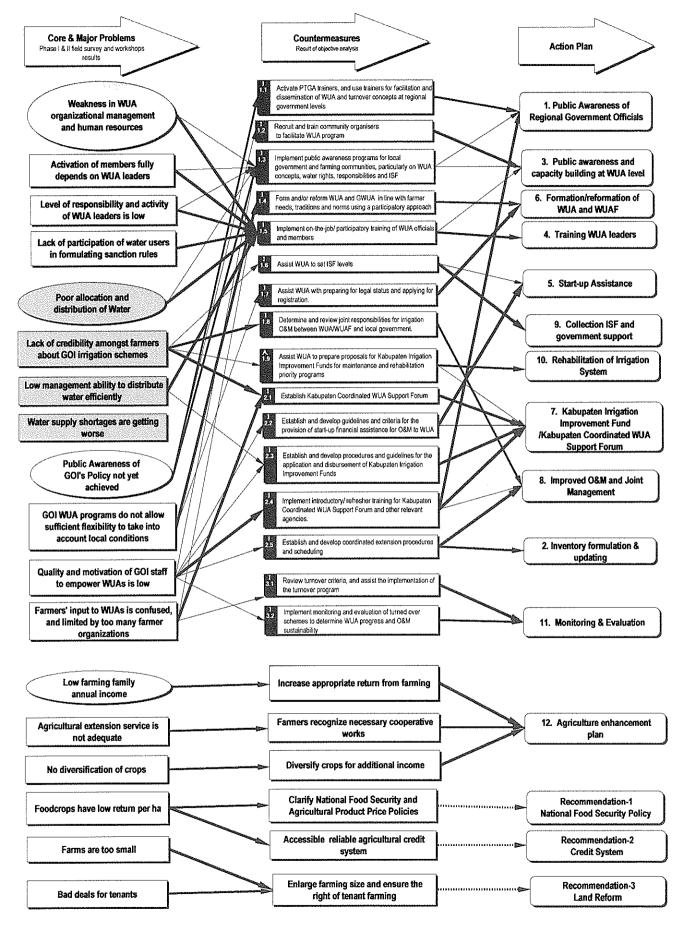
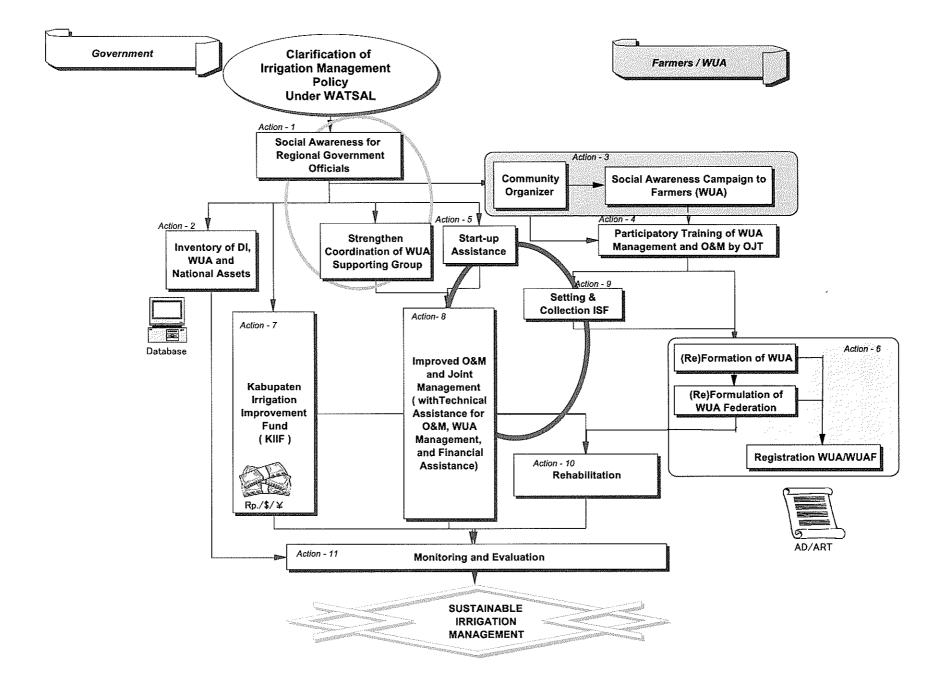


Figure S.5

Major Problems, Countermeasures and Action Plan



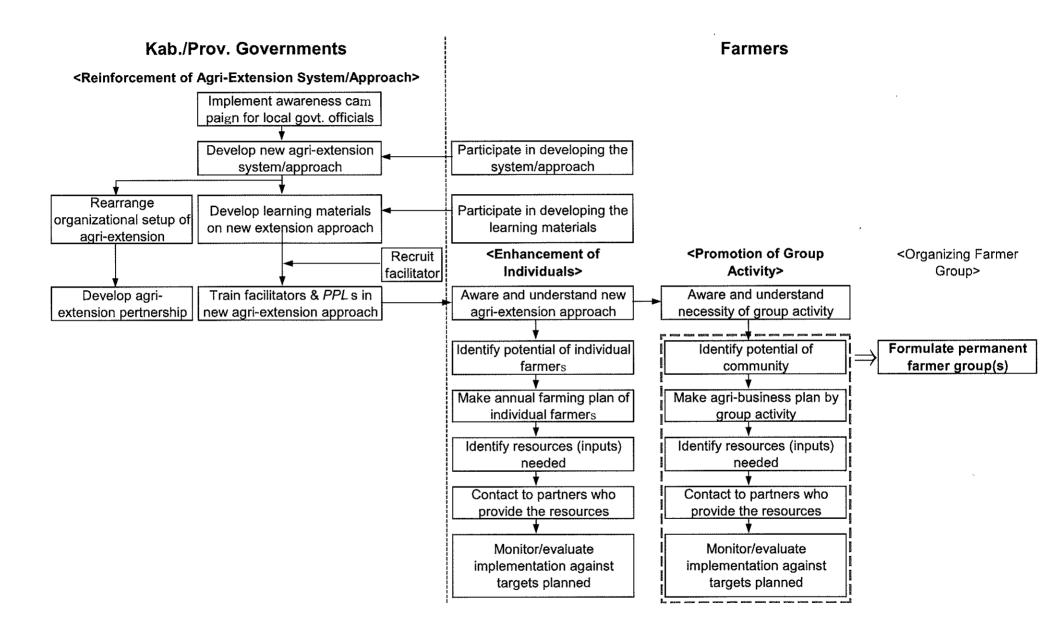


Figure S.7 Outline of Enhancement Plan of Agriculture

Table SA.1 Public Awareness of Government Policy amongst Government Officials

.

(1)	Aai	activity No. :	Program Nan	ie	Imgation-related GOI /	r		Category of the Program
		ctor :	Imgation		plementation Period ;	6 moths		Inigation Scheme, WUA, Othe
1		rget Area / Cat				2) Estimated Total Area :		
			ia, Province of West Sumatera ar	nd / Kabupatens and	I Municipal included in th	e Study I		
<u>, n</u>	Pn	ogram Descript Came out partic		depigning and imply	mentation to appint the D	muincial and Kalumatan M	huniainal (301 and irrigation-related GOI Agenc
						•	•	ment of irrigation management, NU.
								s'allitude change, hence may inclu
		· .	onal and capacity buildings in the			-		a amount enange, nence indy indie
C1	F	,,				-		
(6)			sfinstitutions, their roles, pres Pengamat/Ranting Pengairan GO				iont	
			<u>mment:</u> Kabupaten GOI, Bapped		* •	• • •	•	
	-,		(Initiative, Decision, Action, Fund			Government role and mar		canacity
	31						-	ion, Participation, Beneficiary) c.
	•,		pany, University, NGO (Technic	• •	n, onida i ordinidir (raik		10714100	ion, i diacipation, beneticidity) c.
	4)	Central governr		ar / salatariooy				
(7)		ogram Backgro	· · · · · · · · · · · · · · · · · · ·	·				
	1)	Current Problem	is to be addressed by the Program	<u>n</u> : a). Inadequate G	OI Administration sector	l and intersectoral system,	, b). Inade	equate GOI Office and Field
		management ca	pacitiess, c). Inappropriate GOI (Micers' approach and	l orientation (top-down, e	go-sectoral, target-oriented,	, project-o	riented)
	2)	<u>Countermeasur</u>	<u>es already taken</u> : a). Issuence d	f Kab/Mun <i>Pexda</i> c	orrespondingly to regiona	l autonomy laws and regu	lations, b)). Reorganizationization of Kab/Mur
		GOI organizatio	nal structure and work mechanism	1 accordingly, c). Lin	nited socialization of Irrig	ation Policy Reform, and d) Inclusio	n of Province and the 7 Kabupaten
		and Municipal in	JICA Study 2000/2001.					
	3)	<u>Siginificance an</u>	I necessary of the Program : GO	l is the side where t	ne imigation policy reform	come from. Thus, due to r	regional au	utonomy and democratization, GOI
			firstly required for Kabupaten and		_	• -	• •	
	4 J							-going comprehensive GOI project
						al scheme, Batang Harisc	heme, Ba	atang Anai scheme, etc) under Inpr
	_		aws and Regulations of decentral	ization and deconcer	ntration.			· · · · · · · · · · · · · · · · · · ·
		ogram Targets			201 Annuaise to Airconni			and a state of the
	IJ	required.	reparentess of Naphinun OVIs a	ina imgailon-related 4	501 Agencies to dissemi	nate and facilitate adequate	ary impien	mentation of irrigation policy reform a
		геципен.						
	21	Proposed perfor	mance indicators to assess results	at the tarmet level :	Readiness of Kabildun (301 and related Sector 60	31 Officers	s to initiate dissemination as
	2)		mance indicators to assess results activitate PPI implementation in the				01 Officers	s to initiate dissemination as
		schedulied and i	acilitate PPI implementation in the	included DIs, Kecar	matans and Villages on n	equest basis.		
		schedulied and i <u>Output</u> : a) Ad	acilitate PPI implementation in the equate Operation Plans of dissemi	included DIs, Kecar nation and facilitation	matans and Villages on n of PPI implementation	equest basis. •) Formation of KICF at Ka	ab/Mun le	evel c) Applicable materials and too
		schedulled and t <u>Output</u> : a) Ad kits for dissemin	acilitate PPI implementation in the equate Operation Plans of dissemi ation and facilitation purposes of P	included DIs, Kecar nation and facilitation P1 implementation d)	matans and Villages on m of PPI implementation I Sufficient financial resou	equest basis. •) Formation of KICF at Ka rces and arrangement for d	ab/Julun le dissemina	evel c) Applicable materials and too tion and facilitation purposes of PP
		schedulled and t <u>Output</u> : a) Ad kits for dissemin	acilitate PPI implementation in the equate Operation Plans of dissemi	included DIs, Kecar nation and facilitation P1 implementation d)	matans and Villages on m of PPI implementation I Sufficient financial resou	equest basis. •) Formation of KICF at Ka rces and arrangement for d	ab/Julun le dissemina	evel c) Applicable materials and too tion and facilitation purposes of PP
	3)	schedulied and <u>Output</u> : a) Ad kits for dissemin implementation	acilitate PPI implementation in the equate Operation Plans of dissemi ation and facilitation purposes of P e) Adequate number and quality o	included DIs, Kecar nation and facilitation P1 implementation d) f COs for PP1 imple	natans and Villages on n of PPI implementation I I Sufficient financial resou mentation f) Awareness	equest basis. ») Formation of KICF at Ka rces and arrangement for d and ability of GOI officer to	ab/Julun le lissemina o be highl	evel c) Applicable materials and too tion and facilitation purposes of PP
	3)	schedulied and i <u>Output</u> : a) Ad kits for dissemin implementation <u>Proposed perfor</u>	acilitate PPI implementation in the equate Operation Plans of dissemi ation and facilitation purposes of P e) Adequate number and quality o mance indicators to assess achiev	included DIs, Kecan nation and facilitation Plimplementation d) fCOs for PPlimple vements at the output	natans and Villages on n of PPI implementation I Sufficient financial resou mentation f) Auvareness <u>is level :</u> a) Prepared ad	equest basis. ») Formation of KICF at Ka rces and arrangement for d and ability of GOI officer to equate dissemination and f	ab/Mun le dissemina o be highl facilitation	evel c) Applicable materials and too tion and facilitation purposes of PP iy motivated civil servants
	3)	schedulled and i <u>Output</u> : a) Ad kits for dissemin implementation <u>Proposed perfor</u> of 7 Kab/Mun at	acilitate PPI implementation in the equate Operation Plans of dissemi ation and facilitation purposes of P e) Adequate number and quality o <u>mance indicators to assess achiev</u> the end of this program b) Prepa	included DIs, Kecar nation and facilitation PI implementation d} f COs for PPI imple <u>vements at the output</u> red applicable disser	natans and Villages on n of PPI implementation I Sufficient financial resou mentation f) Auvareness <u>is level :</u> a) Prepared ad nination and implementati	equest basis. a) Formation of KICF at Ka rces and arrangement for d and ability of GOI officer to equate dissemination and f on facilitation set of materia	ab/Mun le dissemina o be highl facilitation ils and too	evel c) Applicable materials and too tion and facilitation purposes of PP iy motivated civil servants operation-plans of PPI implementat
	3)	schedulled and i <u>Output</u> : a) Ad kits for dissemin implementation <u>Proposed perfor</u> of 7 Kab/Mun ar program c) Suf	acilitate PPI implementation in the equate Operation Plans of dissemi ation and facilitation purposes of P e) Adequate number and quality o <u>mance indicators to assess achiev</u> the end of this program b) Prepa icient financial resources and arran	included DIs, Kecar nation and facilitation PI implementation d} f COs for PPI imple <u>vernents at the output</u> red applicable disser ngements for disserm	natans and Villages on n of PPI implementation I Sufficient financial resou mentation f) Auvareness <u>is level :</u> a) Prepared ad nination and implementati ination and facilitation of f	equest basis.) Formation of KICF at Ka rces and arrangement for d and ability of GOI officer to equate dissemination and f on facilitation set of materia PFI implementation of 7 Ka	ab/Mun le dissemina o be highl facilitation ils and too ib/Mun at	evel c) Applicable materials and too tion and facilitation purposes of PP by motivated civil servants operation-plans of PPI implementat ol-kits of 7 Kab/Mun at the end of th
	3)	schedulled and i <u>Output</u> : a) Ad kits for dissemin implementation <u>Proposed perfor</u> of 7 Kab/Mun at program c) Suf of Kabupaten Im	acilitate PPI implementation in the equate Operation Plans of dissemi ation and facilitation purposes of P e) Adequate number and quality o <u>mance indicators to assess achiev</u> the end of this program b) Prepa icient financial resources and arran gation Goordination Forum (KICF	included DIs, Kecar nation and facilitation PI implementation d) f COs for PPI imple <u>vements at the output</u> red applicable disser ngements for disser) of respective Kab/I	natans and Villages on n of PPI implementation I Sufficient financial resou mentation f) Auvareness <u>is level :</u> a) Prepared ad nination and implementati ination and facilitation of f Mun at the end of this pro	equest basis. a) Formation of KICF at Ka rces and arrangement for d and ability of GOI officer to equate dissemination and f on facilitation set of materia PI implementation of 7 Ka gram e) Adequate TOT for 	ab/Mun le dissemina o be highi facilitation ils and too ib/Mun at r PTGA a	evel c) Applicable materials and too tion and facilitation purposes of PP iy motivated civil servants operation-plans of PPI implementation-relates of PPI implementation- ol-kits of 7 Kab/Mun at the end of the the end of this program d) Formati
	3)	schedulled and i <u>Output</u> : a) Ad kits for dissemin implementation <u>Proposed perfor</u> of 7 Kab/Mun at program c) Suf of Kabupaten In Cos accordingly	acilitate PPI implementation in the equate Operation Plans of dissemi ation and facilitation purposes of P e) Adequate number and quality o <u>mance indicators to assess achiev</u> the end of this program b) Prepa icient financial resources and arran gation Goordination Forum (KICF	included DIs, Kecar nation and facilitation PI implementation d) f COs for PPI imple <u>vements at the output</u> red applicable disser ngements for disser) of respective Kab/I Os managed by Uni	natans and Villages on n of PPI implementation I Sufficient financial resou mentation f) Auvareness <u>is level</u> : a) Prepared ad nination and implementati ination and facilitation of F Mun at the end of this pro v/NGO Consulting Team	equest basis. a) Formation of KICF at Ka rces and arrangement for d and ability of GOI officer to equate dissemination and f on facilitation set of materia PI implementation of 7 Ka gram e) Adequate TOT for 	ab/Mun le dissemina o be highi facilitation ils and too ib/Mun at r PTGA a	evel c) Applicable materials and too tion and facilitation purposes of PP by motivated civil servants operation-plans of PPI implementar ol-kits of 7 Kab/Mun at the end of th the end of this program d) Formati and proper PTGA capabilities to trai
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3)	3) 4) 5) 6) <u>Prn</u> 1) 2)	schedulled and i <u>Qutput</u> : a) Ad kits for dissemini- implementation <u>Proposed perfor</u> of 7 Kab/Mun ar program c) Suf of Kabupaten In Cos accordingly tested Kab/Mun <u>Activities :</u> <u>Assumptions :</u> <u>were finally defin</u> <u>egram Inputs</u> <u>Budget allocation</u> - Need assessm - Materials and t - TOT for PTGA - Recruitment ar - Initiation of KIC Formation Mee - In-built consult Dissemination - Overhead, trar <u>Staff allocation p</u> the Provincial at the formulated di <u>Provisional equil</u> b) Explanatory : arrangement (ap	acilitate PPI implementation in the equate Operation Plans of dissemi ation and facilitation purposes of P e) Adequate number and quality o <u>mance indicators to assess achiev</u> the end of this program b) Prepa- icient financial resources and anal gation Coordination Forum (KICF 1) Hired and trained adequate C GOI Officers' ability to be civil se See Supporting Information a) Fund is available b) Imigation (ed and accepted <u>additional accepted</u> <u>aplan throughout the Program peri</u> tent, Provincial GOI and 7 Kab a pol-kits production for disseminatio and 7 Kab/Municipal PTGA Tear d training for COs, 7 Kab/Mun, 1 F, 7 Kab/Mun, meetings for orga- ting @ 40 attendances, start-up bu nocies for individual Province and and Facilitation of PPI implementa sportation, communication, accom <u>ans and technical after achievement</u> d Kab/Mun GOIs and related Go ssemination and facilitation Action <u>ament/ Materials</u> a) Related laws sets of inrigation and WUA problem	included DIs, Kecan nation and facilitation PI implementation d) f COs for PPI imple rent applicable disser ngements for disser of respective Kab/J Os managed by Uni rvants of 7 Kab/Mur policy reform is bene different applicable disser nand facilitation of P rs, 1 training, 1 wee CO/DI, 3 DI priorità rizational setting and idget for Secretariate Kabupaten/Municipa tion and activities sp nodation ent of overall goal: Th DI Agencies, PTGA: Plan and regulations (Cei as and solutions c) I sement requirements	natans and Villages on n of PPI implementation & Sufficient financial resou- mentation f) Auvareness is level : a) Prepared ad nination and implementati ination and facilitation of F Mun at the end of this pro v/NGO Consulting Team a the end this program in at the end this program in the end this program is program in the end this program is program in the end the end this program is program in the end this program is a the end this program is program in the end the end the end the end the end overhead. If GOI and GOI Agenci ecified above, 6 month, 4 the Consulting Team is de teams, CO and KICF ta intral, Province, Kab/Mun Proposed Action Plan and is and mechanisms) e) fu	equest basis. a) Formation of KICF at Ka rccs and arrangement for d and ability of GOI officer to equate dissemination and f on facilitation set of materia PI implementation of 7 Ka gram e) Adequate TOT for a responsible to KICF of 7 ask allocation of Central P riths, 48 man/month num s), 1 week recruitment, 1 w week, 7x 21 man/days), 7: es, KICF and COs for for 18 man/month mobilized at the end of this ke actions respectively in a h, Kecamatan/Nagari level t task allocation under irrigi- lanual, instruments, forms 1	ab/Mun le dissemina o be highi facilitation ils and too ab/Mun at r PTGA a Kab/Mun rovincial rovincial rovincial veek train x1-day mulation o program, according (s) of iniga ation polic which reg	evel c) Applicable materials and too tion and facilitation purposes of PP is motivated civil servents operation-plans of PPI implementar ol-kits of 7 Kab/Mun at the end of the the end of this program (d) Formati and proper PTGA capabilities to train in the end of this program (g) Field and Kab/Mun GOIs and Water Us and Kab/Mun GOIs and Water Us ing ing ing ation policy reform and implementati sy reform (d) Financial budget gard to financial, technical, and GO

to be continued

continued

(10)	Program Benefits & Impacts
	1) Direct beneficiaries & their numbers during the program implementation: (631 Provincial and Kab/Mun Key-leaders)
	a) Provincial GOI: Parliament 2, Prov GOI 3, Bappeda 3, Dinas Pengairan 3, Dinas Pertanian3, others 5, PTGA 5 = 19 people b) Kab/Mun GOI: 7(Parliament 2,
	Prov GOI 3, Bappeda 3, Dinas Pengairan 3, Dinas Pertanian3, others 5, PTGA tearn 4, CO 21, KICF 45) = 588 people
	2) Direct beneficiaries & their numbers after achievement of overall goal; (similarly to above)
	3) Indirect benefits: a) Field examination of regional autonomy GOI reorganization x imigation task allocation into practice b) Universities and NGO hired for Consulting
	Team at Kab/Mun level managing the Cos = Headquarter 3, Kab/Mun offices 7x3 = 24 people
(11)	Related Projects/Programs (IISP, IDTO, PTSL, SAL, Others)
	1) Other projects : Available to supply accurate info. To realize regional development
(12)	Pre-Requirements
	1) Reorganization and redefinition of Provincial and Kab/Mun GOIs was completed and workable, 2) Competent Consulting Agency is available to execute this program 3)
	COs were recruited on miniumum S1+3year-rural community experience basis 4) Priority is given to 3 DIs per Kabupaten/Municipal at maximum due to a screening criteria
(13)	Risko & sensitivities
(14)	Special Remarks

Work Descriptions	1st Year														2nd Year											
WOIN DESCRIPTIONS	1	2	\$	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11			
1 Need assessment to capacity & attitude change			ç.		1	1		1																		
2 Planning of Dissemination & facilition of PPI			9 0		Î	1	[1	1	1	1						1									
3 Production of dissemination & facilitation materials		1			ļ.	Ê	1	1		1																
4 Workshop & training for local GOI attitude change				1	ľ	-	Ê	}																		
5 Initiation of Kab Inigation Coord Forum (KICF)				:	1	Ī	1	;		-																
- Formation and legalization			1	(Î	1	1																			
- Guide/criteria of start-up fund to WUA					ļ	1		Ī	1																	
- Guide/procedure of application of KIIF	1			_	Ç	1	1																			
6 Training for PTGA					-	č	Γ	; ;																		
7 Recruitment and Training of COs	1			1	:	_	İ.		1																	
				l	-	1		l																		

Note: 1. Both of programs of Public awareness and training of WUA leaders proposed here are intending as Pilot Program before commencing nationwide activities

2. This program is to be implemented after completing "Public Awareness at GOI level & WUA level" in the first year

Supporting Information	of 5) Activities of (8) Program Tan	gets and Monito	ring : Irrigatio	on-related GOI	Attitude Chang	e
Activities	Expected result	By Farmers / WUA	By Local Govt	By Central Govt	Consulting Team	CO Managin Team*)
1 Need assessment of local Govt capacity and attitude change for PPI implementation	Prioritization and schedulling of local Govt capacity and attitude change		V		TA	
2 Formulation of local Govt Plan for Dissemination and Facilitation of PPI implementation	Local Govt's Dissemination & Facilitation Plan of PPI implementation		V		TA	
3 Material productions of Dissemination and Facilitation for PPI implementation	 Applicable methods and materials for Dissemination of PPI implementation Applicable manuals and administration requirements for PPI implementation 		v		TA	
 4 Changing local Govt Officers' attitude for dissemination and facilitation of PPI implementation 4.1 Workshop on Govt Officers attitude change 4.2 Job trainings of local Govt's Officers 	 Formulated local Govt Officers' job description, standard performance and procedures Ability of local GOIs' Officer to facilitate adequately the implementation of PPI. 		V		TA	
5 Initiation of Kab Irrigation Coord Forum (KICF) 5.1 Draft formulation of KICF Articles	Initiated and prepared KICF to undertake as well their role and responsibility	V	V		TA	
 5.2 Formation and legalization of KICFof KICF Articles 5.3 Formulation of guideline and criteria for provision of start-up O&M fund to WUA 5.4 Formulation of guideline and procedure of application and disbursement of Kabupaten building homesument Fund 						
6 Training for PTGA Officers 6.1 Designing of training/refreshing syllabus 6.2 Selection of participants from Provincial PTGA and Kab/Mun PTGA Teams	Ability of PTGA Officers to facilitate CO training		V		TA	
6.3 Provision of Training for PTGA Officers 7 Recruitment and training of COs	Adequate number and quality of COs by Kabupaten and Municipal		v		TA	V
 7.1 Need analysis for COs 7.2 Planning and budgeting for CO recruitment and training 7.3 Formulation of CO minimum requirements and recruitment procedure 7.4 Advertisement and selection of Cos 	ыу казырасттаги милісірат					
7.5 CO training and posting Note :Legend of Task Owing					مفريه (#	by Univ/NG

Supporting Information of S Activities of (3) Program Targets and Monitoring :	Irrigation-related GOI Attitude Change
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V : Having authority & responsibility KS : Joint operation

KM : Partnership

TA : Technical Assistance

This program is to be implemented after completing "Public Awareness at GOI level & WUA level" in the first year

Table SA.2.1 Major Irrigation Scheme Inventory Updating Program

	-		Program Name ;	Major Inigation Scl			Category o	
	Sector :	-	jation	(3) Expected Imple	·····	3 years	· · · · · · · · · · · · · · · · · · ·	ne, WUA, Othe
4)	Target Area / Cat	egory	1) Estimated Total	Number; 1	,800 schemes	2) Estimated	Total Area ;	2.7 million ha
<u> </u>	3) <u>Others</u>	4				1		
η,	Program Bescrip Carry out revis		nor of imigation scher	mes over the country	basing on the 1993 [j ⊧Linvenharv P	resent conditions of irrig	tation & drainage
				••	-	-	owing incentives from t	-
	govts of assista	ance budget for ma	intenance / rehabilita	tion. Trunck system fr	om water source to t	m-out to tertiary	y along seconday is to	be compiled. Ter
	level is be excl	luded.						
6)	Executing agenci	esfinstitutions, th	eir roles, present	conditions & requir	ed strengthening			
	1) <u>Field level ;</u>		Hired contractors r	vill conduct walk-throu	gh confirmation surve	ιγ -		
	2) <u>Kabupaten gov</u>	emment	Dinas Kab. Kimpra	swil				
					larral wide Dives k	nh Kinana mil	-	
	3) <u>Provincial gove</u>	ernment		In-Charge at province		ao Mimprasion	8	
	4) <u>Central governi</u>	ment	In-Charge; Kimpra	swil, DGWR, DWRM				
7)	Program Backgro]		
					ation of present condit	on of inr. & drai	inage system is not suf	icient for provide
			naintaining the syste			1		
			••	sures have never bee	•	-	ehabilitation before hand	
				g requested by tarmer ic reference points for		•	enaplitation perore hand	ing-over, central
	-		•	-	-		onal Water Resources I	Management Pro
						=	am is most precious infi	
	, -	-	ector is major water		-			
3)	Bengram Targete			users in héid.				
	Flogiani raigeo	and Monitoring		users in held.		1		
	• •		te accurate referenci		ify rehab necessary	parts and availa	able to accurate cost es	timate.
	1) Overall Goal :	To realize / comple				parts and availa	able to accurate cost es	timate.
<u>~/</u>	1) Overall Goal :	To realize / comple rmance indicators t	to assess results at t	iable inventory to iden		parts and availa	able to accurate cost es	timate.
<u>~/ </u>	 <u>Overall Goal</u>: <u>Proposed perfor</u> <u>Output</u>: Corn <u>Proposed perfor</u> 	To realize / comple rmance indicators t piled inventory itse	to assess results at t If	iable inventory to iden he target level : Comp	iled inventory itself.		able to accurate cost es ng map oriented info. &	
<u></u>	 <u>Overall Goal</u>: <u>Proposed perfo</u> <u>Output</u>: Com <u>Proposed perfo</u> <u>numeric info</u>. 	To realize / comple rmance indicators t piled inventory itse rmance indicators t	<u>to assess results at t</u> If <u>to assess achievern</u>	iable inventory to iden he target level : Comp	iled inventory itself.			
<u>-,</u>	 <u>Overall Goal</u> : <u>Proposed perfo</u> <u>Output</u> : Com <u>Proposed perfo</u> numeric info. <u>Activities</u> : 	To realize / comple <u>mance indicators t</u> piled inventory itse <u>mance indicators t</u> See Supporti	to assess results at t If	iable inventory to iden he target level : Comp	iled inventory itself.			
-	 <u>Overall Goal</u>: <u>Proposed perfo</u> <u>Output</u>: Com <u>Output</u>: Com <u>Proposed perfo</u>numeric info. <u>Activities</u>: <u>Assumptions</u> 	To realize / comple <u>mance indicators t</u> piled inventory itse <u>mance indicators t</u> See Supporti	<u>to assess results at t</u> If <u>to assess achievern</u>	iable inventory to iden he target level : Comp	iled inventory itself.			
-	 <u>Overall Goal</u>: <u>Proposed perfo</u> <u>Output</u>: Com <u>Output</u>: Com <u>Proposed perfo</u>numeric info. <u>Activities</u>: <u>Assumptions</u> Program Inputs 	To realize / comple <u>mance indicators 1</u> piled inventory itse <u>mance indicators 1</u> See Supporti <u>5</u>	o assess results at t If o assess achievem ing Information	iable inventory to iden the target level <u>:</u> Comp ents at the outputs leve	viled inventory itself. <u>el :</u> Compiled invento	ry itself, includir	ng map oriented info. &	drawings, not on
-	 <u>Overall Goal</u>: <u>Proposed perfo</u> <u>Output</u>: Com <u>Output</u>: Com <u>Proposed perfo</u>numeric info. <u>Activities</u>: <u>Assumptions</u> 	To realize / comple <u>mance indicators 1</u> piled inventory itse <u>mance indicators 1</u> See Supporti <u>5</u>	o assess results at t If o assess achievem ing Information	iable inventory to iden he target level : Comp	viled inventory itself. <u>el :</u> Compiled invento	ry itself, includir		
-	 <u>Overall Goal</u>: <u>Proposed perfo</u> <u>Output</u>: Corm <u>Output</u>: Corm <u>Proposed perfo</u> numeric info. <u>Activities</u>: <u>Assumptions</u> <u>Program Inputs</u> <u>Budget allocation</u> 	To realize / comple <u>mance indicators 1</u> piled inventory itse <u>mance indicators 1</u> See Support <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u>	o assess results at t If o assess achievem ing Information	iable inventory to ident <u>he target level</u> : Comp ents at the outputs leve Rp 74,549.92 (:	viled inventory itself. <u>el :</u> Compiled invento	ry itself, includir	ng map oriented info. &	drawings, not on
-	 <u>Overall Goal</u>: <u>Proposed perfo</u> <u>Output</u>: Corm <u>Output</u>: Corm <u>Proposed perfo</u> numeric info. <u>Activities</u>: <u>Assumptions</u> <u>Program Inputs</u> <u>Budget allocation</u> 	To realize / comple <u>mance indicators 1</u> piled inventory itse <u>mance indicators 1</u> See Support <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u>	<u>o assess results at t</u> lf o <u>assess achievern</u> hy Information he Program period	iable inventory to ident <u>he target level</u> : Comp ents at the outputs leve Rp 74,549.92 (:	viled inventory itself. <u>el :</u> Compiled invento	ry itself, includir	ng map oriented info. &	drawings, not on
	 <u>Overall Goal</u>: <u>Proposed perfo</u> <u>Output</u>: Corm <u>Output</u>: Corm <u>Proposed perfo</u> numeric info. <u>Activities</u>: <u>Assumptions</u> <u>Program Inputs</u> <u>Budget allocation</u> 	To realize / comple <u>mance indicators t</u> piled inventory itse <u>mance indicators t</u> <u>See Supporti</u> <u>s</u> <u>n plan throughout t</u> plans and technical	<u>o assess results at t</u> lf o <u>assess achievern</u> hy Information he Program period	iable inventory to ident <u>he target level</u> : Comp ents at the outputs leve Rp 74,549.92 (:	viled inventory itself. <u>el :</u> Compiled invento	ry itself, includir	ng map oriented info. &	drawings, not on
3)	 <u>Overall Goal</u>; <u>Proposed perfo</u> <u>Output</u>; Corn <u>Output</u>; Corn <u>Proposed perfo</u> numeric info. <u>Activities</u>; <u>Assumptions</u> <u>Program Inputs</u> <u>Budget allocation</u>; <u>Staff allocation</u>; <u>Provisional equ</u> 	To realize / comple mance indicators f piled inventory itse mance indicators f See Support See Support an plan throughout f plans and technical ipment/ Materials	<u>o assess results at t</u> lf o <u>assess achievern</u> hy Information he Program period	iable inventory to ident <u>he target level</u> : Comp ents at the outputs leve Rp 74,549.92 (:	viled inventory itself. <u>el :</u> Compiled invento	ry itself, includir	ng map oriented info. &	drawings, not on
3)	 <u>Overall Goal</u>; <u>Proposed perfo</u> <u>Output</u>; Corn <u>Output</u>; Corn <u>Proposed perfo</u>numeric info. <u>Activities</u>; <u>Assumptions</u> <u>Program Inputs</u> <u>Budget allocation</u>; <u>Staff allocation</u>; <u>Provisional equ</u> <u>Program Benefits</u> 	To realize / comple mance indicators f piled inventory itse mance indicators f See Support See Support in plan throughout f plans and technical ipment/ Materials & Impacts	o assess results at t f o assess achievem ing Information he Program period after achievement o	iable inventory to idem <u>he target level</u> : Comp ents at the outputs leve Rp 74,549.92 (: <u>f overail goal</u>	viled inventory itself. <u>el :</u> Compiled invento x 1,000,000) eq.	ry itself, includir \$6,777.27	ng map oriented info. & (×1,000)	drawings, not on
3)	 <u>Overall Goal</u>: <u>Proposed perfo</u> <u>Output</u>: Com <u>Output</u>: Com <u>Proposed perfo</u> numeric info. <u>Activities</u>: <u>Assumptions</u> <u>Program Inputs</u> <u>Budget allocation</u> <u>Staff allocation</u> <u>Provisional equ</u> <u>Program Benefits</u> <u>Direct benefician</u> 	To realize / comple <u>mance indicators 1</u> piled inventory itse <u>mance indicators 1</u> <u>See Supporti</u> <u>see Supporti</u> <u>in plan throughout t</u> <u>elans and technical</u> <u>ipment/ Materials</u> <u>8 Impacts</u>	to assess results at t If to assess achievement ing Information he Program period after achievement o	iable inventory to iden <u>he target level</u> : Comp <u>ents at the outputs leve</u> Rp 74,549.92 (; <u>f overall goal</u> <u>1 implementation</u> : Priv	iled inventory itself. <u>el :</u> Compiled invento x 1,000,000) eq. ate consultants (With	ry itself, includir \$6,777.27 contracts for th	ng map oriented info. & (×1,000)	drawings, not on
3)	 Overall Goal : Proposed perfo Output : Corn <u>Output :</u> Corn <u>Proposed perfo</u> numeric info. <u>Activities :</u> <u>Assumptions</u> <u>Program Inputs</u> <u>Budget allocation :</u> <u>Staff allocation :</u> <u>Provisional equ</u> <u>Program Benefits</u> <u>Direct benefician</u> <u>Direct benefician</u> 	To realize / comple mance indicators t piled inventory itse mance indicators f See Support See Support an plan throughout f plans and technical plans and plans and pl	o assess results at t ff <u>o assess achievern</u> by Information <u>he Program period</u> after achievement o <u>s during the program</u> <u>is after achievement</u>	iable inventory to ident <u>he target level</u> : Comp ents at the outputs leve Rp 74,549.92 (: <u>f overall goal</u> <u>t implementation</u> : Priv <u>of overall goal</u> ; Local	viled inventory itself. <u>el :</u> Compiled invento x 1,000,000) eq. ate consultants (With govts (Kab. & Provi	ry itself, includir \$6,777.27 contracts for th	ng map oriented info. & (× 1,000) e survey)	drawings, not on US\$1=Ro11,0(
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<u>9)</u> 1) 2)	 <u>Overall Goal</u>: <u>Proposed perfo</u> <u>Output</u>: Corn <u>Output</u>: Corn <u>Proposed perfo</u>numeric info. <u>Activities</u>: <u>Assumptions</u> <u>Program Inputs</u> <u>Budget allocation</u> <u>Budget allocation</u> <u>Staff allocation</u> <u>Staff allocation</u> <u>Brovisional equ</u> <u>Program Benefitis</u> <u>Direct benefician</u> <u>Direct benefitis</u>: <u>Utban people</u> <u>Related Projects I</u> IDTO, but not r PTSL, Availabi <u>Pre-Requirements</u> Inventory deve WUA or Farm 	To realize / comple mance indicators f piled inventory itse mance indicators f See Supporti see Supporti in plan throughout f elans and technical imment/ Materials a limment/ Materials a limment/ Materials a limment/ Materials a limment/ Materials b a limpacts riss & their number Farmers (Availab t (Because availab Programs (IISP, related directly bec- le to obtain lates inri Seloped by Provinci ers' union should b	to assess results at t ff to assess achievement ing Information he Program period after achievement of s during the program s after achievement of s during the program s after achievement of the program period after achievement of the program period the program period the program period the program period the program period after achievement of the program period the program the program period the program period the program the program period the program the program period the program the	iable inventory to idem he target level : Comp ents at the outputs leve Rp 74,549.92 (: f overall goal t implementation: Priv of overall goal; Local y design water allocati ., Others) itary level rehabilitation ions through not cover	iled inventory itself. el : Compiled invento x 1,000,000) eq. ate consultants (With govts (Kab. & Provi ion ; Gmillion), Local g	ry itself, includir \$6,777.27 contracts for th nce) jovt (Available	ng map oriented info. & (× 1,000) e survey)	drawings, not on US\$1=Ro11,0(
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Activities	By Farmers /	De La sel Cart	By Central	Du Currente at
Activities	WUA	By Local Govt	Govt	By Consultant
Phase-I : Initial Set-Up Stage				
Inigation Scheme Identification			V, BU	
(1) Inigation Scheme Initial Identification		I	V, BU	
(2) Present Inigation Scheme Compilation		l	V, BU	
Phase – II : Inventory Updating / Completion Stage				
Present Condition Confirmation of Inigation Scheme			V, BU	
(1) Present Condition Confirmation Survey	KM	KS	V, BU	1
(2) Present Condition Compilation Works			V,BU	1
(3) O&M Management Stratified Tree	KM	KS	V, BU	I

Supporting Information of § Activities of (§ Program Targets and Monitoring :

Major Irrigation Scheme Inventory Updating Program

Note : Legend of Task Owing

V : Having authority & responsibility

KS: Joint operation KM: Partnership BU: providing guidance/assistance/backup

I : Implementor

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Implementation	Schedule W	Agior Integration	Scheme in	nentonri i	ndating Program
IIII promoting the second		nator migation			

Work Descriptions					1	st '	Yea	r									2n	d Y	ear									;	3rd	Yei	ar			
work Descriptions	1	2	\$	4	5	6	7	8	9	10	11	12	1	2	\$	4	5	6	7 8	1	1	0 1	1 12	2	1 2	2 3	1	1 5	6	7	\$	9	10 1	1]1:
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Phase-I : Initial <u>Set-Up Stage</u>	22	22	<i>}</i>	111	777	222	477	777	224	22	711,	224	mţ.	ad p	777	272	æ	四			T			ľ	1		Ĭ.		•	:			1	
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Inigation Scheme Identification				ł	1									Ì		1			T	1		Ì	ł		Ì	i.	;	1	Ì.				Ĩ	1
(1) Inigation Scheme Initial Identification				ļ.				-					1				1		T	T	1			Τ	1	1	ł	Ī		Ì			ľ	
(2) Present Inigation Scheme Compilation	Γ	1	:	Ì									-	Ş	D		ŧ,	=	1		I				;	:	1		Ī	Ì			1	T
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Phase -II : Inventory Updating / Completion Stage	Ι	[l		:						1		7772	777	ΖŻ	πķ	772	ż	σģz	de.	à	a	477	4	m	m	¢7	dir.	222	m	277	,	777	ŻŻ
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Present Condition Confirmation of Imigation Scheme	Γ	1	1	1							I					Ĩ	T	:			:	:			Ī	1	Ĩ	ł	1	ł			1	
(1) Present Condition Confirmation Survey		1	Ī											÷			÷	-		÷	ļ.	ę.	Ļ	ł	÷	÷	÷		ļ.	ţ.				
(2) Present Condition Compilation Works	1		[1											1	1	I		ł	÷			÷				÷		l.				Ĩ	i
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(3) O&M Management Stratified Tree]	:	1	L													Ì				1	1			÷	ł	,		ŧ.	ł		÷		
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Table AS.2.2 Small Scale Irrigation Scheme Inventory Updating Program

) Activity No. :	INV-2	Program Name ;	Small Scale Inigation Scheme Inventory Program	<u> </u>	Category of the Program
<u>.</u>	Sector :		ation	(3) Expected Implementation Period ;	3 years	Inigation Scheme, WUA, Others
(4)	Target Area / Cat	egory _.	1) Estimated Total	Number; 17,200 schems	2) Estimated	Total Area ; 1.31 million ha
_	3) <u>Others</u>			<u> </u>		
5)	Program Descrip]	
	•		• -	chemes over the country, but only for tertiar	• •	
				vel are to be confirmed by walk-through sur abilitation schemes as their incentives, also		
			, –	o be excluded. Including a whole irrigation s		, ,
<u>C1</u>						
6)	1) Field level :	ésénsututions, th		conditions & required strengthening roup will provide with fulfilling the specified] Iomra	
	() <u>Heid lever.</u>		WOR or larmers g	houb roll broade out langing the specared	IUITTIS	
	2) <u>Kabupaten gov</u>	remment.	Dinas Kab, Kimpra	liwee		
	3) <u>Provincial gov</u>	emment	Dinas Kimpraswil,	In-Charge at province level, guide Dinas K	ab Kimpraswil:	s
	4) <u>Central govern</u>	ment	In-Charge; Kimpra	swil, DGWR, DWRM		
(7)	Program Backgro	bund				· · · · ·
	1) <u>Current Problem</u>	ms to be addressed	by the Program : A	Almost all information of present condition of	irr. & drainage	system is not sufficient for providing accur
		ration for maintaining				
				sures have never been taken by the centra		
	-			ng to new regulation all of OSM imigation so		
			-	tional asset. Farmers are insisting to comple		
		•		ansparency and fairness to recover the trus		
				ent plan/policies/istructions : GOI is going t	-	- •
		-	urate references for	sound regional planning in near future. The p	proposed progra	am is most precious into, to make any regi
		مسلم المحمينية مسلس	admy in particul workers	man in Fald		
01			ector is major water	users in field.		
8)	Program Targets	and Monitoring	-	· ·	arts and availab	ale to populate poot estimate
(8)	Program Targets 1) Overall Goal :	and Monitering To realize / comple	te accurate referenci	iable inventory to identify reha necessary p	arts and availat	ble to accurate cost estimate.
(8)	Program Targets 1) Overall Goal : 2) Proposed perfo	and Monitoring To realize / complet rmance indicators to	te accurate referenci o assess results at t	· ·	arts and availat	ole to accurate cost estimate.
8)	Program Targets 1) Overall Goal : 2) Proposed perfo 3) Output : Com	and Monitoring To realize / comple mance indicators b piled inventory itsel	te accurate referenci o assess results at t f	iable inventory to identify reha necessary p t <u>he target level :</u> Compiled inventory itself.		
8)	Program Targets 1) Overall Goal : 2) Proposed perfo 3) Output : Com 4) Proposed perfo	and Monitoring To realize / comple mance indicators b piled inventory itsel	te accurate referenci o assess results at t f	iable inventory to identify reha necessary p		
8)	Program Targets 1) Overall Goal : 2) Proposed perfo 3) Output : Corn 4) Proposed perfo numeric info.	and Monitoring To realize / complet mance indicators b piled inventory itsel mance indicators b	te accurate referenci o assess results al t f o assess achieverne	iable inventory to identify reha necessary p t <u>he target level :</u> Compiled inventory itself.		
8)	Program Targets 1) Overall Goal.: 2) Proposed perfo 3) Output.: Com 4) Proposed perfo numeric info. 5) Activities :	and Monitoring To realize / complet mance indicators b piled inventory itsel mance indicators b	te accurate referenci o assess results at t f	iable inventory to identify reha necessary p t <u>he target level :</u> Compiled inventory itself.		
-	Program Targets 1) Overall Goal : 2) Proposed perfo 3) Output : Com 4) Proposed perfo numeric info. 5) Activities : 6) Assumptions :	and Monitoring To realize / complet mance indicators b piled inventory itsel mance indicators b	te accurate referenci o assess results al t f o assess achieverne	iable inventory to identify reha necessary p t <u>he target level :</u> Compiled inventory itself.		
-	Program Targets 1) Overall Goal : 2) Proposed perfor 3) Output : Com 4) Proposed perfor numeric info. 5) Activities : 6) Assumptions : Program Inputs	and Monitoring To realize / complet mance indicators b piled inventory itsel mance indicators b	te accurate referenci o assess results at t f o assess achieverne ng Information	iable inventory to identify reha necessary p t <u>he target level :</u> Compiled inventory itself.	ny itself, includir	
-	Program Targets 1) Overall Goal : 2) Proposed perfo 3) Output : Com 4) Proposed perfo numeric info. 5) Activities : 6) Assumptions : Program Inputs 1) Budget allocation	and Monitoring To realize / complet <u>imance indicators b</u> piled inventory itsel <u>mance indicators b</u> See Supportion	te accurate referenci o assess results at th f o assess achievement ing Information ne Program period	iable inventory to identify reha necessary p <u>the target level :</u> Compiled inventory itself. <u>ents at the outputs level :</u> Compiled invento Rp 54,514.16 (× 1,000,000) eq.	ry itself, includir	ng map oriented info. & drawings, not only
-	Program Targets 1) Overall Goal : 2) Proposed perfo 3) Output : Com 4) Proposed perfo numeric info. 5) Activities : 6) Assumptions : Program Inputs 1) Budget allocation ;	and Monitoring To realize / complet imance indicators to piled inventory itsel imance indicators to See Supportion on plan throughout the plans and technical	te accurate referenci o assess results at t f o assess achieverne ng Information	iable inventory to identify reha necessary p <u>the target level :</u> Compiled inventory itself. <u>ents at the outputs level :</u> Compiled invento Rp 54,514.16 (× 1,000,000) eq.	ry itself, includir	ng map oriented info. & drawings, not only
3)	Program Targets 1) Overall Goal : 2) Proposed performance 3) Output : Communication 4) Proposed performance 7) Output : Communication 4) Proposed performance 7) Activities : 6) Assumptions : Program Inputs 1) Budget allocation : 2) Staff allocation :	and Monitoring To realize / complet Imance indicators to piled inventory itsel Imance indicators to See Supportion See Supportion on plan throughout the plans and technical plans and technical	te accurate referenci o assess results at th f o assess achievement ing Information ne Program period	iable inventory to identify reha necessary p <u>the target level :</u> Compiled inventory itself. <u>ents at the outputs level :</u> Compiled invento Rp 54,514.16 (× 1,000,000) eq.	ry itself, includir	ng map oriented info. & drawings, not only
8)	Program Targets 1) Overall Goal : 2) Proposed perform 3) Output : Common Sector 4) Proposed perform 4) Proposed perform 7) Output : Common Sector 6) Activities : 6) Assumptions : 7) Program Inputs 1) Budget allocation 3) Provisional equ 7) Program Benefits	and Monitoring To realize / complet Imance indicators to piled inventory itsel mance indicators to See Supportion See Supportion on plan throughout the plans and technical imment/ Materials S Impacts	te accurate referenci o assess results at th f o assess achievement ing Information he Program period after achievement o	iable inventory to identify reha necessary p <u>the target level :</u> Compiled inventory itself. <u>ents at the outputs level :</u> Compiled invento <u>ents at the outputs level :</u> Compiled invento <u>Pp 54,514.16 (× 1,000,000) eq.</u> <u>of overall goal</u>	ry itself, includir \$4,955.83	ng map oriented info. & drawings, not only (× 1,000) US\$1=Rp11,000
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Activities	By Farmers / WUA	By Local Govt	By Central Govt	By Consultant
Phase-1 : Initial Set-Up Stage				
Irrigation Scheme Identification			V	
(1) Inigation Scheme Initial Identification		I	V, BU	
(2) Present Imigation Scheme Compilation		1	V, BU	
Phase-2 : Inventory Updating / Completion Stage				
Present Condition Confirmation of Irrigation Scheme			V, BU	
(1) Present Condition Confirmation Survey		KS	V, BU	
(2) Present Condition Compilation Works		- I	V,BU	
(3) O&M Management Stratified Tree		KS	V, BU	

Supporting Information of \$ Activities of (\$ Program Targets and Monitoring : Small Scale Irrigation Scheme Inventory Updating Program

Note : Legend of Task Owing

V : Having authority & responsibility

KS: Joint operation

KM : Partnership

BU: providing guidance/assistance/backup

I : Implementor

Work Descriptions		1st Year											2nd Year												3rd Year										
		2	\$	4	5	6	7	\$	9	10	11	12	1	2	\$	4	5	8	7	\$	9	10	11	12	1	2	\$	4	5	6	7	9	10	11	12
																																	1		[
hase-1 : Initial Set-Up Stage	772	77	777	777	777	777	772	777	777	77	777	222	αd	77	777	777	272	ZZ			[:			Ī		-
Inigation Scheme Identification	1											1	1															Î		Ī			1		
(1) Inigation Scheme Initial Identification				-				-																							Î		Ť		<u>.</u>
(2) Present Inigation Scheme Compilation					-						-							-												î	- i				
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hase-2 : Inventory Updating / Completion Stage													ate		22	772	777	m	77	772	777	777	77	777	777	777	777		777	m	272	à	àn	m	Z
Present Condition Confirmation of Irrigation Scheme													Ť		•••••												1	1			1	-	· · · · ·		
[1] Present Condition Confirmation Survey						.,	,						••••													_									
[2] Present Condition Compilation Works													Î						•••••		_						÷		÷.		;				·
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(3) O&M Management Stratified Tree	†																			••••		****								;	i		 0		

Implementation Schedule : Small Scale Irrigation Scheme Inventory Updating Program