

Attachment

WELCOME!



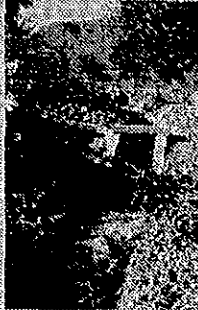
Tanzania Ministry of Agriculture
and Food Security



National Irrigation Master Plan



Pump station in Abaya



Irrigation in Mbingo



Irrigation in Keshu



Irrigation in Zanzibar

You are a visitor from #197/2002

National Irrigation Master Plan (NIMP) has been formulated under the technical assistance of Japan International Cooperation Agency (JICA), of which target area includes all areas of the United Republic of Tanzania. The Study for NIMP started from October 2001 and is scheduled to be completed in March 2004.

The objectives of the Study are:

- to formulate the Master Plan for irrigation development at national level with target year of 2017 for main land and 2020 for Zanzibar;
- to prepare the Implementation Plan for the priority irrigation schemes and subjects selected through the Master Plan;
- to conduct the Verification Study for the bottleneck items for successful implementation of the schemes; and
- to carry out technology transfer to counterpart personnel through on-the-job training in the course of the Study.

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[JICA Study Team Members](#)

[MAFS Members \(Counterpart for Mainland\)](#)

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Background of the Study

Background of the Study

Agriculture in Tanzania plays the most important role in its economy. In 1998, it absorbed over 70 % of the total labor population and generates 48 % of GDP and 65% of export exchange earnings. In the main land, 10.1 million ha have been cultivated to present although agricultural potential area would be estimated at 44 million ha equivalent to about 47 % of 94.2 million ha of main land area. Out of 10.1 million of cultivated area, 1.0 million ha is assessed as area suitable for irrigation, of which 0.2 million ha only is currently irrigated. It means that land and water resources are not effectively utilized so far.



Kilimanjaro Irrigation Scheme, Kilimanjaro

Cereals in Tanzania are maize, sorghum, paddy and wheat. These, especially maize and paddy are mostly cultivated by smallholder farmers, and their production are remarkably low due mainly to *rainfed* cultivation. In recent 7 years from 1992/93 to 1998/99, cultivated areas and crop production of maize and paddy, which are main foodstuffs in Tanzania, have largely fluctuated year by year depending on weather condition.

The Household Budget Survey executed in 1991/2 showed the lower income in rural areas than that in urban areas, resulting in severe poverty situation in rural area. Over 87 % of all poor people live in rural area where agriculture is the mainstay in livelihood. Forty one % and 23 % of population in rural areas were below the poverty line of basic needs and food requirement standards, respectively. The recent House-Hold Survey in 2000/01 also presents the similar poverty situation although 2 % to 3 % have been improved. The Food Security Department, MAFS analyzes that cereals deficit would attain at 820,000 tons at national level in 2001/02. In addition to the expansion of cultivated area, increasing in crop yield is thus an indispensable issue for agriculture in Tanzania.

In 1994, the National Irrigation Development Plan (NIDP) was prepared aiming at stability and increase in food production. The NIDP proposed implementation of 147 irrigation schemes and alleviation of many constraints such as lack of resources. Since 1994, some constraints have been alleviated by the external support. However, lots of constraints have still remained. On the other hand, some government policies such as the "Tanzania Development Vision 2025", and "Agricultural and Livestock Policy, 1997" after 1994, which affects direction of irrigation development in Tanzania. Such current situations led to the recognition on need of revision of the NIDP.

The GOT requested the Government of Japan (GOJ) to extend the technical assistance for the revision of the NIDP. In response to this request, the GOJ dispatched the Preliminary Study Team from March 2001 to April 2001, to hold a series of discussions with the GOT, and both sides agreed on the Scope of Work (S/W).



Morogoro Irrigation Scheme, Morogoro

NIDP has come to include Zanzibar

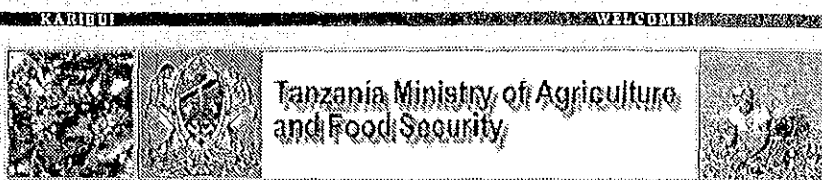
The Government of Zanzibar requested JICA through MAFS to include Zanzibar in the study area of NIDP. JICA, with consent of MAFS agreed to this request, and JICA and Government of Zanzibar exchanged the Minutes of Meeting on May 9, 2002.

In accordance with this Minutes of Meeting, the JICA Study Team submitted to the Ministry of Agriculture, Natural Resources, Environment and Cooperatives (MANREC), 20 copies of Inception Report 1. The meeting on the Report was held with the Steering Committee on May 15, 2002. In the meeting, the JICA Study Team explained the contents of the Report and further highlighted the basic concept and basic approaches of the Study. As a result of discussions on the Report among the participants, it was accepted by the Steering Committee chaired by Mr. Ali Kaharis Mikaruz, Deputy Principal Secretary of MANREC. The Minutes of Meeting for the Inception Report 1 was exchanged by the Steering Committee and the JICA Study Team.

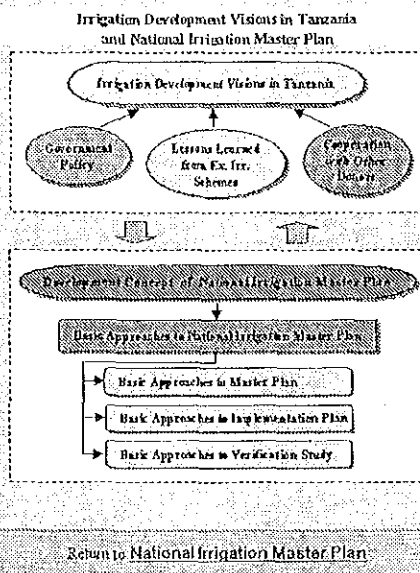


Exchange of IRN1 for IRN1 in Zanzibar

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Basic Approach to the Study



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Schedule of the Study


The Study has been carried out for 30 months from October 2001 to March 2004 in the following 3 phases:

Phase	2001	2002	2003	2004
Phase 1: Formulation of Master Plan	10	10		
Phase 2: Preparation of Implementation Plan		12	9	
Phase 3: Recurrence of Verification Study			10	3

Phase 1 : Oct 2001 - Oct 2002

Phase 2 : Dec 2002 - Sep 2003

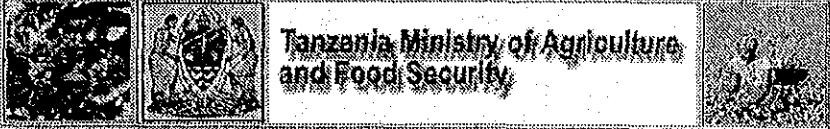
Phase 3 : Oct 2003 - Mar 2004



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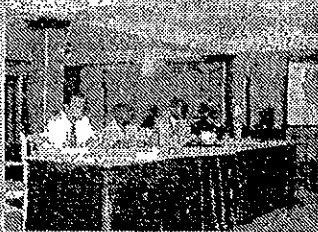
Our Major Activities

Phase 1 : Oct 2001 - Oct 2002


First Field Work

- 05/11/2001 : Arrival of JICA Study Team at Tanzania
- 06/11/2001 : Steering Committee Meeting
- 08/11/2001 : Stakeholder Meeting
- 29/11/2001 : Workshop
- 24/01/2002 : Steering Committee Meeting
- 28/01/2002 : Stakeholder Meeting
- 28/01/2002 : Workshop
- 30/01/2002 : Departure of JICA Study Team to Japan

(Report : Progress Report 1)



Second Field Work



(PCM Workshop in Mbeya)

- 12/05/2002 : Arrival of JICA Study Team at Tanzania
- 15/05/2002 : Steering Committee Meeting in Zanzibar
- 14/06/2002 : **PCM Workshop** in Mbeya
- 20/06/2002 : **PCM Workshop** in Dar es Salaam
- 21/06/2002 : **PCM Workshop** in Dar es Salaam
- 24/06/2002 : **PCM Workshop** in Moshi
- 28/06/2002 : **PCM Workshop** in Morogoro

(Report : Draft Master-Plan Report)

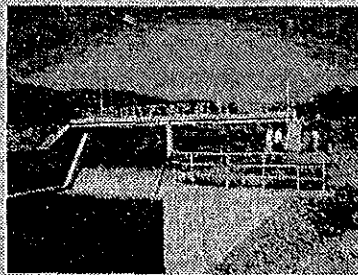
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Study Results






Major Irrigation Schemes in Arusha


Report	Major Contents
PHASE 1	
<ul style="list-style-type: none"> • Progress Report 1 (Jan. 2001) 	Study Result of First Field Work (Oct. 2001 - Feb. 2001) <ul style="list-style-type: none"> • Firming Related Government Policies • Natural Conditions and Socio-economic Background • Trend in Development Attitudes • Background and Constraints in Irrigation Development • Development Concept for Formulation of NIMP • Preliminary Study on Irrigation Development Potential • Need of Strengthening the Irrigation Section
<ul style="list-style-type: none"> • Master Plan Report (Oct. 2002) 	Study Result of Phase 1 (Oct. 2001 - Oct. 2002) <ul style="list-style-type: none"> • Analysis and of Inventory Survey Results • Potential of Irrigation Development • Framework and Scenarios for Irrigation Development • Irrigation Development Level • Development Plan of Irrigation Schemes • Implementation Plan of Subjects for Sustainable Irrigation Development • Development Program • Institutional and Organizational Strategies for Implementation • Selection of The Priority Areas and Subjects
PHASE 2	
<ul style="list-style-type: none"> • Progress Report 2 (Feb. 2003) 	Study Result of Third Field Work (Dec. 2001 - Mar. 2002) <ul style="list-style-type: none"> • Execution of Initial Environmental Evaluation • Preparation of Draft Implementation Plan
<ul style="list-style-type: none"> • Implementation Plan Report (Sep. 2003) 	Study Result of Phase 2 (Dec. 2002 - Sep. 2003) <ul style="list-style-type: none"> • Outline of the Implementation Plan • Summary of the Implementation Plan (IPM and the project proposal) • Decision of the Verification Study team • Verification Study execution schedule
PHASE 3	
<ul style="list-style-type: none"> • Progress Report 3 (Jan. 2004) 	Study Result of Fifth Field Work (Dec. 2001 - Mar. 2002) <ul style="list-style-type: none"> • Contents of Verification Study • Organization, administration and role assignment concerned with the execution and management of the Verification Study • Result of the Verification Study • Evaluation of the Verification Study
<ul style="list-style-type: none"> • Verification Study Report (Mar. 2004) 	Study Result of Phase 3 (Oct. 2003 - Mar. 2004) <ul style="list-style-type: none"> • Contents of Verification Study • Organization, administration and role assignment concerned with the execution and management of the Verification Study • Result of the Verification Study • Evaluation of the Verification Study • Feedback of the result of Verification Study

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**Tanzania Ministry of Agriculture
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SAHIBU



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PCM Workshops

Purpose of PCM Workshops

PCM workshops were executed five times for different themes in June 2002, to seek for the problems and needs of key stakeholders of irrigation development. The results of the PCM workshops are reflected upon the subject-wise improvement program.



PCM Workshop in Dar es Salaam

Themes and Participants

The theme and participants for each PCM Workshop are as tabulated below, and at each time, heated and eager discussion was held to identify core problem and direct causes to each theme.

Date	Place	Theme	Participants
14/06/2002	Mbeya	Identification of Problems of Irrigation Farming	<ul style="list-style-type: none"> • Farmer Representative • Zonal Irrigation Office Staff
20/06/2002	Dar es Salaam	Identification of Problems on Irrigation Management	<ul style="list-style-type: none"> • Irrigation Section Staff (MAFS) • Zonal Irrigation Officers
21/06/2002	Dar es Salaam	Identification of Problem Situation on the Irrigation Section of MAFS for Realization of Effective Performance to Irrigation Development	<ul style="list-style-type: none"> • Irrigation Section Staff (MAFS) • Other MAFS Staff • Zonal Irrigation Officers • Project Managers of On-going Irrigation projects
24/06/2002	Moshi	Identification of Existing Functional Problems in Water Users Association	<ul style="list-style-type: none"> • Water Users Association Leaders • Extension Officers
29/06/2002	Morogoro	Identification of Problem Situation of Local Governments in Supporting Irrigation Farming	<ul style="list-style-type: none"> • Extension Officers • DALDOs

Results of Workshops

Result of each workshop is expressed as 'Problem Tree', in which 'Problem(s)' and 'Cause(s)' are connected with line(s) logically. In 'Problem Tree', lower item is just reason for higher item. In each workshop, **Core Problem** was assessed first, in succession, **Direct Causes** and further causes were identified along with this manner. Following each figure is the 'Problem Tree' identified in each PCM Workshop, except 'Identification of Problems on Irrigation Management'.

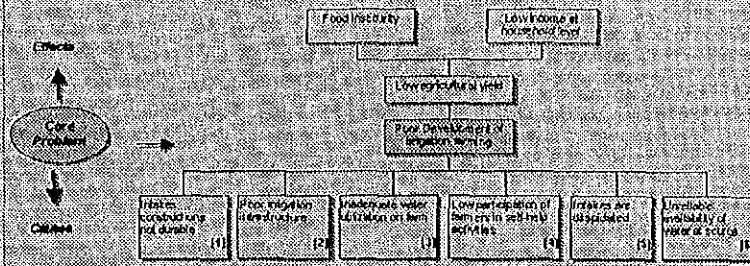
The Workshop for 'Identification of Problems on Irrigation Management' was held to discuss from the view point of project cycle management. From that viewpoint, the project implementation was divided into five stages as shown below, and constraints for each stage were identified.

The JICA Study Team analyzes these results and integrates in order to find the strategies to find the solutions to these problems. The **integrated Problem Tree** and **integrated Objective Tree** drawn from all of the PCM Workshops were produced.



PCM Workshop in Morogoro

Mbeya, 14/06/2007
Problem Tree - Irrigation Farming



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Dar es Salaam, 10/06/2007
Irrigation Management

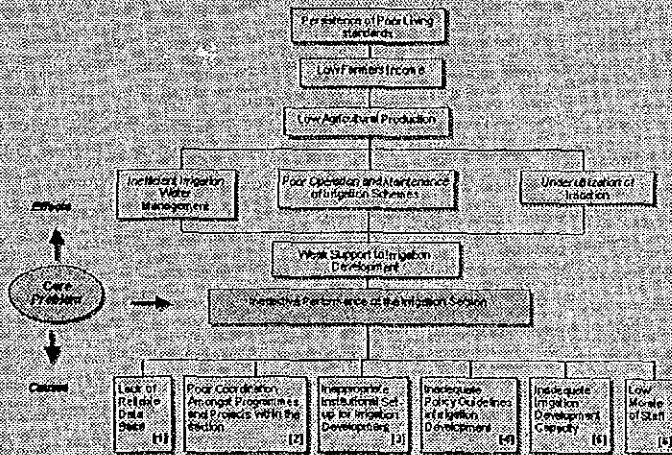
The five stages of project implementation are:

1. Recognition of Present Condition
2. Planning
3. Designing
4. Construction
5. Monitoring, Evaluation Adjustment

Go to [Constraints identified in the Workshop for each stage](#)

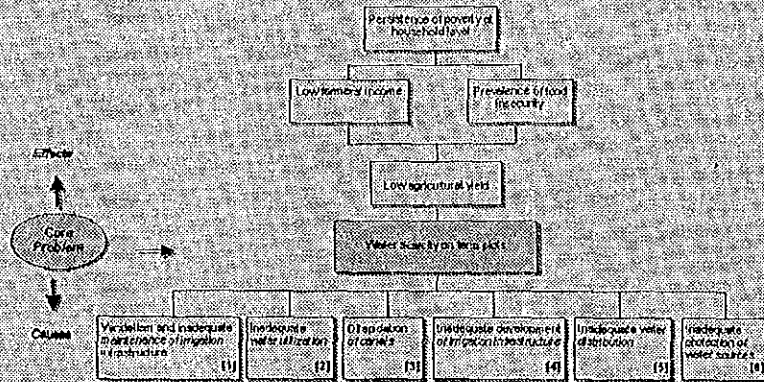
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Dar es Salaam, 11/06/2007
Problem Tree - Irrigation Section for Effective Performance to Irrigation Development



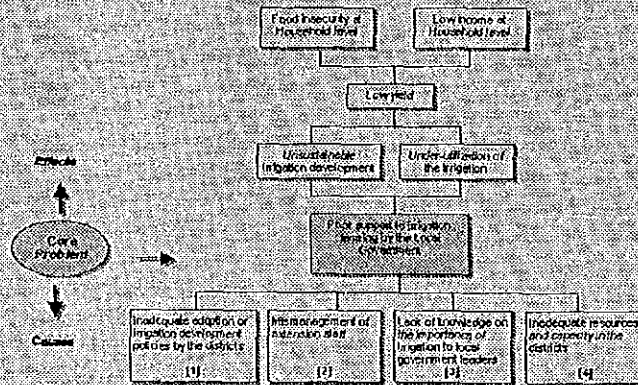
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Moshi, 24/06/2002
Problem Tree - Existing Functional Problems in Water Users Association



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Morogoro, 28/06/2002
Problem Tree - Local Governments in Supporting Irrigation Farming



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JICA