Appendix I

PDM of Proposed Components of Subject-wise Programme

THE STUDY ON THE NATIONAL IRRIGATION MASTER PLAN IN THE UNITED REPUBLIC OF TANZANIA

Draft Master Plan Report

APPENDIX I

PDM OF THE PROPOSED COMPONENTS OF SUBJECT-WISE PROGRAMME

Table of Contents

Chapter	Proposed Composed PDM of the Prop				6					т 1
1.1	1 Divi of the 110p	oseu Com	ponents	••••••		 	•••••••	•••••		1-1
						 4.7				
				7						
* .			Attachme	nf					1	
		4			5					
					1.					
						•	1 July 20			Page

APPENDIX I

PDM OF THE PROPOSED COMPONENTS OF SUBJECT-WISE PROGRAMME

CHAPTER 1 PROPOSED COMPONENTS OF SUBJECT-WISE PROGRAMME

1.1 PDM of the Proposed Components

Twenty-nine (29) groups of components were identified so as to cover any requirement of improvement for irrigation development. The group of component is not always enable to fulfill the objectives by only single component, some one should be composed of several numbers of components. Consequently, some groups of components were divided into several components as required. Finally, thirty-seven (37) components were formed by the conceptualized aspects. As to the all formed components, Project Design Matrix (PDM), say a Logical Framework, were prepared individually. All PDMs of the components were shown in Attachment 1.

PDM OF THE PROPOSED COMPONENTS OF SUBJECT-WISE PROGRAMME

PDM of the Programme	A1	IS Institutional Improvement Programme
PDM of the Programme	A2	LGA Institutional Strengthening Programme for Irrigation Development
PDM of the Programme	Bi	IS Working Mandate Formulation Programme
PDM of the Programme	B2	Contract Management System Improvement programme
PDM of the Programme	-B3	Regulatory Networking System Establishment between LGAs and IS
PDM of the Programme	B4	NGOs' Intervention in Irrigation Development Encourage Programme
PDM of the Programme	B 5	Cooperation Channeling within Irrigation-Sector Establishment Programme
PDM of the Programme	В6	Sub-sectors Coordination System Establishment
PDM of the Programme	C1	Survey and Investigation Guideline Establishment Programme
PDM of the Programme	C2.1	Planning Guideline Establishment Programme
PDM of the Programme	C2.2	Designing Guideline Establishment Programme
PDM of the Programme	C3.1	O&M Guideline Establishment Programme
PDM of the Programme	C3.2	Monitoring & Evaluation Guideline Establishment Programme
PDM of the Programme	C 4	Farmers' Participation in Irrigation Development Programme
PDM of the Programme	C5	Village Irrigation Development Guideline Establishment Programme
PDM of the Programme	C 6	Farmers' O&M Manual Establishment Programme
PDM of the Programme	C 7	Establishment of DADP Formulation Guideline for Irrigated Agriculture
	C/	Development (DADP-IA)
PDM of the Programme	D1	Web-site and Networking Establishment Programme
PDM of the Programme	D2	Technical Manuals Handling Guideline Establishment Programme
PDM of the Programme	D3	Information and Database Improvement Programme
PDM of the Programme	D4	Irrigation Development Contactors and Consultants' Listing Programme
PDM of the Programme	D5	LGAs' Data Organization Programme
PDM of the Programme	D 6	LGA Networking System Establishment Programme
PDM of the Programme	D 7	Existing-scheme Monitoring System Establishment Programme
PDM of the Programme	E1.1	Irrigation Technology Research Center Establishment Programme
PDM of the Programme	E1.2	Perenial Irrigation Method Improvement Programme
PDM of the Programme	E1.3	Flood Irrigation Development Programme
PDM of the Programme	E1.4	Small Dam Technology for Irrigation Development Establishment Programme
PDM of the Programme	E1.5	Environmental Assessment Study for Irrigation Practice in Tanzania
PDM of the Programme	E1.6	Study of River-Basin Approach in Irrigation Development
PDM of the Programme	E2	Hydraulic Experimental Center Establishment Programme
PDM of the Programme	E3	IS's Equipment Management Programme
PDM of the Programme	E4	Irrigation Development Contractors and Contractors' Training Programme
PDM of the Programme	E5	Farmers' Participation Training Programme
PDM of the Programme	E6.1	Irrigated Agriculture Training Programme for Rice Production Increase
PDM of the Programme	E6.2	Irrigated Agriculture Training Programme for Cash Crops Production Increase
PDM of the Programme	E7	Integrated Irrigation Development Model establishment Programme
A Company of the Comp		

PDM of the Programme A1

(IS institutional Improvement) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration:	2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date:	August 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty	Majorico		
Overall Goal To attain the objectives of NIMP by means of well performance of restructured organization of Irrigation Section (IS)	Performance of IS is improved. NIMP is fulfilled almost on schedule.	Progress Reports of MINP since 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose			
Institutional improvement plan of the IS's organization is authorized.	By 20XX, the institutional improvement plan is approved by the Government.	Note of approval by the Government	Necessary official back-up is properly provided to restructured organization of IS so as to function properly.
And the institutional improvement plan of the IS is carried out.	By 20XX, institutional improvement of IS is completed in line with the Plan.	Completion report of the institutional improvement	New organization of IS is equipped physically in line with the other programmes at the same time.
Outputs			
 Institutional improvement plan of the IS's organization is finalized. Organizational structure of IS is 	By 20XX, institutional improvement of IS is started in line with the Plan.	Progress report of institutional improvement of IS	Staff of IS is filled up or replaced to meet the requirement in the Mission statement of new
legitimately changed			organization of IS.
3. Personnel changes and if necessary recruitment of staff are done in the IS in line with the institutional improvement plan.			
New organization of IS is enabled to work.			
Activities	Inputs		
1-1Review previous institutional improvement plans on the IS.	Donor Task Force	GOT	All necessary arrangement for institutional improvement
1-2 Prepare a realistic and most effective plan of institutional improvement of IS.	1) Institution 8 months 2) System operation 8 months 3) Legal specialist 6 months	Personnel 1) Counterparts in each subject	of IS will be fulfilled on schedule by concerned section in MAFS.
1-3 Finalize the plan of institutional improvement of IS.	Subject specialist for the subject of task duties (as required)	Equipment 1) Office L.S. 2) Others L.S.	

- 2-1Make proceeding plan of legitimate change corresponding to the institutional improvement...
- 2-2 Execute the proceeding plan of legitimate change.
- 3-1Make personnel assignment plan corresponding to the institutional improvement.
- 3-2Examine to apply temporary employment for the implementation of NIMP
- 3-3 Finalize the personnel assignment plan
- 3-4 Execute the personnel assignment plan
- 4-1 Vest authority to restructured IS to function officially.

Equipment

Budget

Project.

 Computer system
 Office equipment L.S. L.S.

Some part of expenditures of local activities related to the

3) Others

Budget

L.S.

- Salaries and necessary expenses for counterparts
- 2) Necessary expenditures in internal investigations.

Preconditions

It is clearly confirmed the needs of institutional improvement of IS is recognized in MAFS.

MASF can provide necessary resources to IS so as to fulfill institutional improvement.

PDM of the Programme A2

(LGA Institutional Strengthening for Irrigation Development) under NIMP - Tentative

Project Name: National Irrigation Master Plan		Duration: 2003 - 2017 (15 years)		
Project Area: Tanzania	Target Agency: MAFS	Date:	August 2002	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty	indiagrafa		
Overall Goal To attain the objectives of NIMP by means of well performance of districts' offices for irrigation development	Performance of districts' offices for irrigation development is improved. NIMP is fulfilled almost on schedule.	Progress Reports of MINP since 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose			
Institutional improvement plan of the irrigation sector's organization in the district office is authorized.	By 20XX, the institutional improvement plan is approved by the Central and Local Government.	Note of approval by the Government	Necessary official back-up is properly provided to restructured organization of IS district so as to function properly.
And the institutional improvement plan of the irrigation sector of the district office (IS district) is carried out.	By 20XX, institutional improvement of the IS district is completed in more than 90 % of all districts in line with the Plan.	Completion report of the institutional improvement of IS district	New organization of IS is equipped physically in line with the other programmes at the same time.
Outputs			
General institutional improvement plan of the IS district's organization is finalized.	By 20XX, institutional improvement of IS district is started in line with the Plan by district.	Progress report of institutional improvement of IS district	Staff of IS district is filled up or replaced to meet the requirement corresponding to the institutional improvement
Organizational structure of IS district is legally changed by district.		*	plan by district.
Personnel changes and if necessary recruitment of staff are done in the IS district in line with the institutional improvement plan by district.			
New organization of IS district is enabled to work by district.			
Activities	Inputs		
1-1Review previous institutional improvement plans on the IS district (by IS of MAFS).	Donor Task Force 1) Local Government	GOT Personnel 1) Counterparts in each	All necessary arrangement for institutional improvement of IS district will be fulfilled on schedule by concerned
1-2 Prepare a realistic and most effective plan of institutional improvement of IS district (by IS of MAFS).	Institution 6 months 2) System operation 6 months 3) Legal specialist 6 months	subject in IS 2) Counterpart in each district	section in MAFS and LGAs.

- 1-3 Finalize the plan of institutional improvement of IS district (by IS of MAFS).
- 2-1 Make proceeding plan of district's legitimate change corresponding to the institutional improvement (by District Office)..
- 2-2 Execute the proceeding plan of district's legitimate change (by District Office).
- 3-1 Make district's personnel assignment plan corresponding to the institutional improvement (by District Office)...
- 3-2 Execute the district's personnel assignment plan (by District Office).
- 4-1 Vest authority to restructured IS district to function officially (by District Office).

Subject specialist for the subject of task duties

Čomputer system

2) Office equipment

Some part of expenditures of

local activities related to the

Equipment

3) Others

Budget

Project.

(as required)

L.S.

L.S.

LS.

Equipment
1) Office
2) Others

L.S. L.S.

Budget

Salaries and necessary
 expenses for counterparts

Necessary expenditures in internal investigations. Preconditions

It is clearly confirmed the needs of institutional improvement of IS district is recognized in MAFS and LGAs.

MASF can provide necessary resources to IS so as to fulfill institutional improvement.

LGA can provide necessary resources to IS district so as to fulfill institutional improvement.

PDM of the Programme B1

(IS Working Mandate Formulation) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration:	2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date:	August 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to			
reduce rural poverty			
Overall Goal			
To attain the objectives of NIMP by means of well performance of Irrigation Section (IS) in	Performance of IS is improved. NIMP is fulfilled almost on schedule.	Progress Reports of MINP since 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
accordance with the IS mandate			
Project Purpose			
Proper waking mandate of IS is regulated and started to be applied.	By 20XX, the IS working mandate is approved by the Government.	Note of approval by the Government	Organization of IS is re-structured as proposed in
иррисс.		Danie Carlotte	other institutional improvement programme.
	By 20XX, the IS start to work fully under the working	Result of work investigation for IS	Necessary official back-up is
	regulation.		properly provided to IS so as to maintain the application of
			the mandate
Outputs			
Mission statement of IS is established.	The mission statement of IS is approved and proclaimed by the Government.	Record of official proclamation	Staff of IS is filled up or replaced to meet the requirement in the Mission statement.
Task duties of IS is established in line with the Mission statement of IS	By 20XX, the task duties of IS is in effective.	Report on-the-spot investigation.	Statement.
 Procedures on scheme implementation are systemized and formalized. 			The systemized formalities of scheme implementation will become a rule for
			common use to the related actors.
Activities	Inputs		
1-1Review previous mission for the IS.	Donor	GOT	All necessary arrangement for installation of databases
1-2 Prepare a plan of new mission statement of IS.	Preparation Team 1) Task management 6 months 2) System operation 6 months	Personnel 1) Counterparts in each subject	will be fulfilled on schedule by concerned section in MAFS.
1-3 Finalize the plan of mission	3) Institution 6 months		

Attachment			
statement of IS.			Preconditions
2-1Study demands to be included into the new duties standard of IS. 2-2Review previous duties of IS.	Subject specialist for the subject of task duties (as required)	Equipment 1) Office L.S. 2) Others L.S.	It is clearly confirmed the needs of establishment of certain task duties standard of IS is recognized in MAFS.
2-3Finalize a plan of task duties standard of IS. 3-1Conceptualize official procedures of schemes selection and implementation.	Equipment 1) Computer system 2) Office equipment L.S. 3) Others L.S.	Budget 1) Salaries and necessary expenses for counterparts 2) Necessary expenditures in internal investigations.	MASF can provide necessary resources to IS so that IS works as required in new mission statement.
3-2Formalize each process of the scheme implementation in consideration with the finalized feature of IS and other related organizations and regulations.	Budget Some part of expenditures of local activities related to the Project.		
3-3Prepare a written rules on the formalities on scheme implementation.			

PDM of the Programme B2

(Contract Management System Improvement) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration:	2003 - 2017 (15 years)	
Project Area: Tanzania	Target Agency: MAFS	Date:	August 2002	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate			
agricultural sector growth, and to reduce rural poverty			
Overall Goal			
To attain the objectives of NIMP	a) By 20XX, number of	List of contractors for the	Other related programmes of
by means of good performance of	certified contractor for the work of irrigation development	tender of the works in irrigation development	NIMP are animatedly implemented as scheduled.
contractors	increases at 50 % compared to	development	impremented as senedined.
	2002.		
No.	b) Complains for the	Reply of clients of implemented	
	contractors' performance are	irrigation schemes to the	
	decreased. Clients satisfy	question of contractors'	
n the second second	contractors' performance in more than 80 % of	performance.	
	implemented irrigation		
	schemes.		
Project Purpose			
Contract management system for	a) By 20XX, the new contract	Completed documents for the	The contract system will
the works on irrigation	system is prepared.	regulations on new contract	continue its procedure in
development is improved.		system	suitable manner.
	b) By 20XX, new irrigation	Report of contract procedures	Modality and method of
NT	scheme implementation obeys	of new irrigation scheme since	contract for irrigation scheme
New contract management system is started to be applied.	the new contract system.	20XX	implementation will not changed drastically.
Outputs			
1. Guidelines of contract	The prepared guidelines of	Result of interview survey to	Association of contractors or
procedures are prepared.	contract procedures are	contractors on the needs of	other reliable organization is
	approved officially.	contractors training	cooperative for introduction
2. The new guideline is expanded	Every offices and personnel in	Report of the Follow-up study	of new contract system.
to every concerned	MAFS dealing with contract	on expansion of the new	Institutional arrangement for
governmental staff.	works recognize the new guideline.	contract system	the establishment of the new
	guidemie.		contract system is successfully given without
3. The new guideline is expanded	Almost all contractors who are	Report of the Follow-up study	any delay.
to contractors and organization concerned.	possible tenderers for the contract works of irrigation	on expansion of the new	
concerned.	scheme implementation	contract system	
	recognize the new guideline.		
Activities	Inputs		A 11
1-1Review of existing contract	Donor	GOT	All necessary arrangement for introduction of the new
system	Study Team	Percennal	contract system will be
1-2 Plan proper contract	1) Contract specialist	Personnel 1) Counterparts in each	fulfilled on schedule by any reliable parties concerned.
procedures for irrigation	10 months	subject	paras contonned.
scheme implementation for not only central government but	2) Legal specialist 6 months 3) Documentation 6 months		
also LGAs.	3) Documentation 6 months 4) Construction 6 months		

	5) Institution	3 months		• • • • • • • • • • • • • • • • • • • •	Preconditions	· · · · · · · · · · · · · · · · · · ·
1-3 Prepare necessary documents			Equipment	T 0		
on new contract method	•		Office Others	L.S.	A contract system	exist for
2-1Arrenge circumstance of	Equipment		2) Outers	L.S.	irrigation scheme implementation.	
governmental offices	1) Vehicles	L.S.			miljacinemation,	
concerning to contract so as to	Office equipme				An association of	the
introduce the new contract	3) Others	L.S.	Budget		contractors exists	
system.			 Salaries and ne expenses for co 		functioning substa	untially.
2-2 Train staffs of governmental offices concerned the procedures of new contract method.	Budget Some part of exper local activities rela Project.		Allowances and of government training Some portion of the state of the sta	al staff of the	It is clearly confir needs of improver previous contract irrigation scheme	nent system for
3-1 Prepare an explanatory paper on the new contract method.			budget for esta of new contrac		implementation by government, local government agend	,
3-2 Deliver the explanatory paper on the new contract method to				i	contractors.	
contractors.						
3.3 Hold cominger for sumlenting						
3-3 Hold seminars for explanation of applying new contract						
method to contractors in several times.			•	- '	•	
Several unies,	··· ·	·	<u></u>			· · · · · · · · · · · · · · · · · · ·

PDM of the Programme B3

(Regulatory Networking System Establishment between LGAs and IS) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration:	2003 - 2017 (15 year	s)
Project Area: Tanzania	Target Agency: MAFS	Date:	August 2002	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal To attain the objectives of NIMP by means of well coordination between LGAs and IS through the	By 20XX, the NLS system built up by this programme is utilized by 50 % of districts.	Report on-the-spot investigation for utilization of the NLS system.	Other related programmes of NIMP are animatedly implemented as scheduled.
Regulatory Networking System between LGAs and IS (NLS system)			
Project Purpose Regulatory Networking System between LGAs (districts) and IS is established, and the system starts to work.	By 20XX, more than 80 % of districts are under the networking system.	Report interview survey to districts	Good circumstance for utilization of the networking system between districts and IS is maintained.
			When revised the system and database itself, the former ones should be replaced smoothly.
Outputs 1. Communication channel for transferring information between districts and IS (sometimes by way of ZIOs) is set up.	Proposed communication channel between districts and IS are tested to work effectively.	Report of the testing	Districts have capability and financial resource to use the communication channels effectively for irrigation development.
Necessary equipment to make communicate between both parties possible is installed.	By 20XX, deployment of the necessary equipment is completed	Report of inspection	Districts will maintain the communication channel well.
3. Arrangement for open utilization of useful tools and information in IS to districts is made.	By 20XX, the arrangement for open utilization of useful tools/information is completed.	Report of inspection	

Activities				
1-1Specify respon districts for the irrigation devel	subj	ects	itior of	ı in

- 1-2 Proposed an organizational arrangement in districts to link channel from IS to the districts for the subjects of irrigation.
- 1-3 Make execution of the plan of organizational arrangement in district, unless present organization of district can keep up with under present condition.
- 2-1 Identify need of installation of communication mean.
- 2-2 Install required equipment, if necessary.
- 3-1Investigate sort of tools and information required to deliver to districts so that district can maintain technical communication with IS on the basis of the same.
- 3-2 Distribute required tools and information to districts.

Inputs

Donor

Preparation Team

- 1) Institutional Specialist 6 months
- 2) System management
- 6 months 3) Networking Specialist
- 6 months 4) LGA organization 6 months Computer operator

(as required)

L.S.

Subject specialist for the subject of networking (as required)

Equipment

Project.

- 1) Computer system
- 2) Office equipment L.S. L.S.
- 3) Others

Budget Some part of expenditures of local activities related to the

GOT

Personnel

1) Counterparts in each subject

1) Salaries and necessary expenses for counterparts

Some portion of the budget for installation of

equipment

Equipment

Budget

1) Office Others

L.S. L.S.

All necessary arrangement for establishment o the communication channel will be fulfilled on schedule by concerned section in MAFS.

Preconditions

It is clearly confirmed the needs of establishment of communication channel between districts and IS in organizational basis and with certain means.

MASF can provide necessary

PDM of the Programme B4

(NGOs' Intervention in Irrigation Development Encourage) under NIMP ~ Tentative

Project Name: National Irrigation Maste	r Plan	<u>Duration: 2003 - 2017 (15 years)</u>
Project Area: Tanzania	Target Agency: MAFS	Date: June 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal			
To attain the objectives of NIMP by means of activating NGOs' cooperation to irrigation development.	In 20XX, intervention of NGOs in irrigation sector increase more than 50 % compared to 2002.	Result of baseline survey of NGOs' intervention in 2002 Result of follow-up survey of NGOs' intervention in 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose			
Encouragement plan for NGOs' intervention in irrigation development is established. The encouragement plan for	a) By 20XX, the encouragement plan is completed. b) By 20XX, the	Document of the encouragement plan Progress report of	Districts (or LGA) are strengthened their capability so as to accept NGOs' cooperation reliably.
NGOs' intervention in irrigation development is started.	encouragement plan is started its execution.	implementation of the encouragement plan	Good circumstance for the introduction of NGOs is maintained including legal frame.
Outputs			
NGOs' cooperation in irrigation sector in Tanzania is unveiled	More than 80 % of on-going NGOs cooperation in irrigation sector are outlined with certain salient features.	Result of investigation for NGOs' activities in irrigation sector	Adequate cooperation of related agencies is given in investigation for NGOs' activities and preparation of
Strategy for encouragement of NGOs' cooperation in irrigation sector is established.	The strategy for encouragement of NGOs' cooperation in irrigation sector is approved by MAFS.	Approval note of MAFS	implementation of the Plan.
A encouragement plan for NGOs' intervention in irrigation development is made.			
4. Necessary arrangement for implementation of the encouragement plan for NGOs' intervention in irrigation development is settled.	By 20XX, the encouragement plan for NGOs' intervention in irrigation development is started its operation.	Progress report of the Plan	
development is settled.			

Attachment 1		<u> </u>
Activities	Inputs	
1-1Investigate NGOs' activities in irrigation sector in Tanzania.	Donor GOT	All necessary arrangem for the execution of this programme are comple
1-2 Analyze problems and	Preparation Team Personnel 1) NGO cooperation 6 months 1) Counterparts in c	schedule.
constraints in NGOs' intervention in irrigation sector.	2) Cooperation Policy subject 3 months	
2 Prepare a strategy for	3) Irrigation 6 months 4) Institution 6 months	
encouragement of NGOs' cooperation in irrigation sector.	5) LGA specialist 6 months Equipment	
3 Formulate an encouragement plan for NGOs' intervention in	Equipment 1) Office 1) Vehicles L.S. 2) Others	L.S. L.S.
irrigation development.	2) Office equipment L.S. 3) Others L.S.	
4-1 Clarify required arrangement	Budget Budget	Preconditions
for the implementation of the Plan.	Some part of expenditures of 1) Salaries and nece local activities related to the expenses for con-	
4-2 Prepare necessary	Project. 2) Some portion of	the NGOs' intervention in
arrangement for the	budget for the Expenditures of investigation of I	
implementation of the Plan	investigation of NGOs' activities activities, and 3) Necessary expen	ditures in government, local government agencies a
	implementation of operation of the encouragement plan for encouragement p	
	NGOs' intervention in NGOs' intervention irrigation development irrigation development	

PDM of the Programme B5

(Cooperative Channeling within Irrigation Sector Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration: 2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date: August 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal			
To stimulate and facilitate			
agricultural sector growth, and to	}		1
reduce rural poverty			
		y y	
Overall Goal			
To attain the objectives of NIMP	Performance of every parties	Progress Reports of MINP	Other related programmes of
by means of well harmonized	concerned irrigation sector (IS,	since 20XX	NIMP are animatedly
performing of every parties	ZIO, Regional office, district		implemented as scheduled.
concerned in irrigation Sector.	office, and farmers group etc.)		
concented in Erigadon occior.	are improved. NIMP is		
Project Purpose	fulfilled almost on schedule.		
Project Purpose			
Properly linked mandate and	By 20XX, every parties in	Note of approval by the	Organization of IQ and Y CAs
duties of each agency in irrigation	irrigation sector start to work	Government	Organization of IS and LGAs are re-structured as proposed
sector are established.	fully under the cooperative	Covernment	in other institutional
	mandate.	Result of work investigation for	improvement programme.
		every parties in irrigation sector	amprovement programme.
		, , , , , , , , , , , , , , , , , , ,	Necessary official back-up is
			properly provided to
]		irrigation sector so as to
	:		maintain the application of
			the mandate.
Outputs			
1. Cooperative mission statement	The cooperative mission	Record of official proclamation	Staff of every offices in
of every parties in irrigation	statement of irrigation sector is	Treesta of official procedulation	irrigation sector is filled up
sector is established in	approved and proclaimed by the		or replaced to meet the
consideration with linkage each	Government.		requirement of fulfill the
other.			cooperative duties and
			mandate.
Cooperative Duties and	By 20XX, the cooperative	Report on-the-spot	
Mandate of irrigation sector is	duties and mandate is in	investigation.	1
established in line with the	effective.		
Mission statements.		,	
Activities	Inputs	<u> </u>	
1-1Review existing each mission	Donor	COT	All necessary arrangement
for the agencies in irrigation			for enforcement of the
sector	Preparation Team	Personnel	cooperative duties and
	1) Task management 6 months	1) Counterparts in each	mandate will be fulfilled on
1-2 Prepare a plan of new	2) Institution 6 months	subject	schedule by concerned
cooperative mission statement	Regulation specialist		section in MAFS.
of the agencies in irrigation	6 months		
sector.	4) Irrigation development		
1.2 Einstine the election	3 months	Equipment	
1-3 Finalize the plan of		1) Office L.S.	
cooperative mission statement	Enhicat angeletiat Ca. 49 -	2) Others L.S.	
to add to the previous ones.	Subject specialist for the subject of task duties		
	(as required)		
	(as required)	<u> </u>	<u> </u>

7 LCCGOTHILCHL 1
2-1Study demands to be included
into the new cooperative
duties standard of irrigation sector.
sector,
2-2Review previous duties and

- mandate of irrigation sector.
- 2-3Finalize a plan of cooperative task duties standard of irrigation sector.
- 2-4 prepare the Cooperative Duties and Mandate of irrigation sector

Equipment
1) Computer system
2) Office equipment

L.S. L.S. L.S.

3) Others

Some part of expenditures of local activities related to the Project.

- Budget
 1) Salaries and necessary
 expenses for counterparts
 2) Necessary expenditures in
 internal investigations.

Preconditions

It is clearly confirmed the needs of establishment of certain cooperative task duties and mandate of irrigation sector is recognized in MAFS.

MASF can provide necessary resources to IS so that IS works as required in execution of this programme.

PDM of the Programme B6

(Sub-Sectors' Coordination System Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration:	: 2003 - 2017 (15 years)	
Project Area: Tanzania	Target Agency: MAFS	Date:	August 2002	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal To attain the objectives of NIMP by means of well coordinated supporting of other sub-sectors.	Performances of other sub-sectors concerned irrigated agriculture (research, extension, rural development, education, health etc.) are coordinated.	Progress Reports of new irrigation scheme implementation and monitoring for existing irrigation schemes since 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose Proper coordination directive among every sub-sectors related to irrigated agriculture are established.	By 20XX, every sub-sectors related to irrigated agriculture start to consult the coordination directive when needed.	Note of approval by the Government Result of interview survey to sub-sectors concerning to irrigated agriculture.	Necessary official supports are properly provided from sub-sectors to irrigation sector so as to maintain irrigated agriculture at the developed areas, and develop new areas.
Outputs 1. Coordination system (or directive and rules system) among sub-sectors related to irrigated agriculture development are established.	The coordination system is approved and proclaimed by the Government.	Record of official proclamation	Sub-sectors related to irrigated agriculture are cooperative to retain good progress of irrigated agriculture in rural areas.
2. The coordination system among sub-sectors works on retaining of good progress of irrigated agriculture.	By 20XX, the coordination system is in effective.	Report on-the-spot investigation.	
Activities 1-1Design coordination structure of sub-sectors related to irrigated agriculture development. 1-2 Prepare a plan of coordination system among sub-sectors	Preparation Team 1) Task management 6 months 2) Institution 6 months 3) Regulation specialist 6 months	Personnel 1) Counterparts in each subjects from related sub-sectors	All necessary arrangement for enforcement of the coordination system will be fulfilled on schedule by MAFS.

related to irrigated agriculture development	4) Irrigated agriculture 3 months	Equipment	Preconditions
1-3 Finalize the plan of coordination system.2-Establish the coordination	Subject specialist for the subject of task duties (as required)	1) Office L.S. 2) Others L.S.	It is clearly confirmed the needs of establishment of certain coordination system of related sub-sectors is recognized by MAFS.
system in the concerned	Equipment	Budget	, g
sub-sectors.	1) Computer system L.S. 2) Office equipment L.S. 3) Others L.S.	 Salaries and necessary expenses for counterparts Necessary expenditures in internal investigations. 	MASF can provide necessary resources to IS so that IS works as required in execution of this programme
	Budget Some part of expenditures of local activities related to the Project.		

PDM of the Programme C1

(Survey and Investigation Guideline Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration:	2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date:	June 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty	madaudio		
Overall Goal			
To attain the objectives of NIMP by means of well utilizing of the survey guideline.	By 20XX, the survey guideline is utilized at the stage of survey and investigation for 80 % of irrigation schemes newly planned by IS and districts since 2002.	Investigation Reports for new irrigation scheme from 2002 to 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose			
Survey and Investigation(S&I) Guideline which is convenient for survey and investigation of new irrigation planning is completed	a) By 20XX, completed S&I Guideline is approved by officials concerned.	Official document on approval of the S&I Guideline.	Good circumstance for utilization of the S&I Guideline is maintained.
A copy of the S&I Guideline is placed in each district and section related irrigation development.	b) In 20XX, delivered copies of the S&I Guideline are confirmed popularity in their sections (positive for more than 80 %).	Report on-the-spot investigation (An on-the spot investigation shall be taken)	When revised the S&I Guideline, delivered one should be replaced smoothly.
Outputs			
Fields and its level of survey and investigation to meet requirement for the S&I Guideline are decided.	All fields and survey items contained into previous similar instructions are included in the S&I Guideline.	Result of interview survey to personnel concerned to on the needs of preparation of S&I Guideline for irrigation development	Districts and concerned agencies have technical capability and financial resource to fully conduct survey and/or investigation
A S&I Guideline is prepared. Handling manual for the S&I	By 20XX, the S&I Guideline is completed for its preparation.	S&I Guideline	designated into the &I Guideline.
Guideline is prepared.	By 20XX or before starting of guideline delivering, the handling manual is completed for its preparation.	Handling manual	Management system of the &I Guideline exists and function properly in every concerned agencies.
 Copy of the S&I Guideline is delivered to each district and section related irrigation development. 	By 20XX, the guideline is completely delivered.	Record of delivery of the S&I	
		Guideline	
A 41 111			
Activities	Inputs		All necessary arrangement
1-1Study previous failures in planning and designing due to lack of necessary survey and investigation.	Donor Preparation Team 1) Coordinator 6 months 2) Irrigation 3 months	GOT Personnel 1) Counterparts in each subject	for the stationing of the system will be fulfilled on schedule by any reliable parties concerned.
1-2Study requirement for survey and investigation for irrigation development.	3) Meteo-hydrology 3 months 4) Topo-survey 3 months 5) Hydraulics 3 months 6) Geology 3 months	ouojeet	

ſ	2. Dec. 4 - 08-1 O-11-11-1	CIC CIC	2 months	Canimont		December 1841
- 1	2 Prepare the S&I Guideline	7) Land use, GIS	3 months	Equipment	_	Preconditions
	reflecting identified	8) Agronomy	3 months	1) Office	L.S.	
	requirement for the guideline,	9) Environment	3 months	2) Others	L.S.	It is clearly confirmed the needs of preparation of the S&I Guideline is recognized
١	3-1Plan a management and					in local government agencies
1	utilizing system of the	Equipment		Budget		and private groups.
	guideline	1) Vehicles	L.S.	 Salaries and n 	necessary	
	· .	2) GIS	L.S.	expenses for o		
	3-2Prepare the handling manual in line with the management plan	3) Others	L.S.	Some portion budget for pu the Guideline	blication of	
ŀ		Budget		Necessary ext		
	Transport copies of the S&I Guideline to the agencies designated in the management	Some part of expe local activities rel Project.		operation of the		
	plan.		-	·		

PDM of the Programme C2.1

(Planning Guideline Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration: 2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date: August 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate, agricultural sector growth, and to reduce rural poverty			
Overall Goal To attain the objectives of NIMP by means of well utilizing of the planning guideline.	By 20XX, the planning guideline is utilized at the stage of planning for 80 % of irrigation schemes newly planned by IS and districts since 2002.	Planning Reports for new irrigation scheme from 2002 to 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose Planning Guideline which is convenient for planning of new irrigation scheme is completed A copy of the Planning Guideline is placed in each district and section related irrigation development.	a) By 20XX, completed Planning Guideline is approved by officials concerned. b) In 20XX, delivered copies of the Planning Guideline are confirmed popularity in their sections (positive for more than 80 %).	Official document on approval of the Planning Guideline. Report on-the-spot investigation (An on-the spot investigation shall be taken)	Good circumstance for utilization of the Planning Guideline is maintained. When revised the Planning Guideline, delivered one should be replaced smoothly.
1. Fields and its level of planning and decision making to meet requirement for the Planning Guideline are decided. 2. A Planning Guideline is prepared. 3. Handling manual for the Planning Guideline is prepared. 4. Copy of the Planning Guideline is delivered to each district and section related irrigation development.	All fields and technical items contained into previous similar instructions are included in the Planning Guideline. By 20XX, the Planning Guideline is completed for its preparation. By 20XX or before starting of guideline delivering, the handling manual is completed for its preparation. By 20XX, the guideline is completely delivered.	Result of interview survey to personnel concerned on the needs of preparation of Planning Guideline for irrigation development Planning Guideline Handling manual Record of delivery of the Planning Guideline	Districts and concerned agencies have technical capability and financial resource to fully conduct planning and/or decision making designated into the Planning Guideline. Management system of the Planning Guideline exists and function properly in every concerned agencies.

Activities	Inputs			All necessary arrangement
-1Study previous failures in	Donor		GOT	for the stationing of the
planning and designing due to				management system of the
lack of necessary technology in	Preparation Team		Personnel	guideline will be fulfilled or
planning.		nonths	1) Counterparts in each	schedule by any reliable
1		nonths	subject	parties concerned.
-2Study requirement for	/	nonths		partito concornou.
planning and decision making	, , , , , , , , , , , , , , , , , , , ,	nonths	1	
for irrigation development.		nonths		
	.,	nonths		
Prepare the Planning Guideline			Equipment	
reflecting identified		nonths	1) Office L.S.	
requirement for the guideline.		nonths	2) Others L.S.]
requirement for the Bulderine,	. 7 - 9	nonths	2) Odicio	
		nonths		
-1Plan a management and	To ji airicipation on	Homms		Preconditions
utilizing system of the	Equipment	:	Budget	Freconditions
guideline.	1) Vehicles	L.S.	1) Salaries and necessary	It is also be an firmed the
guidennic	2) GIS	L.S.	expenses for counterparts	It is clearly confirmed the
-2Prepare the handling manual in	3) Others	L.S. L.S.		needs of preparation of the
line with the management	3) Oulers	T. O.	2) Some portion of the	Planning Guideline is
plan			budget for publication of the Guideline	recognized in local
hvar	Budget			government agencies and
. Transport copies of the		uran of	3) Necessary expenditures in	private groups.
	Some part of expenditu- local activities related to		operation of the system	
Planning Guideline to the		to the		
agencies designated in the	Project.		the state of the s	

PDM of the Programme C2.2

(Designing Guideline Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	Duration: 2003 - 2017 (15 years)	
Project Area: Tanzania	Target Agency: MAFS	Date: August 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal To attain the objectives of NIMP by means of well utilizing of the Designing guideline.	By 20XX, the designing guideline is utilized at the stage of planning for 80 % of irrigation schemes newly planned by IS and districts since 2002.	Design Reports for new irrigation scheme from 2002 to 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose Designing Guideline which is convenient for designing of new irrigation scheme is completed A copy of the Designing Guideline is placed in each district and section related irrigation development.	a) By 20XX, completed Designing Guideline is approved by officials concerned. b) In 20XX, delivered copies of the Designing Guideline are confirmed popularity in their sections (positive for more than 80 %).	Official document on approval of the Designing Guideline. Report on-the-spot investigation (An on-the spot investigation shall be taken)	Good circumstance for utilization of the Designing Guideline is maintained. When revised the Designing Guideline, delivered one should be replaced smoothly.
Outputs 1. Fields and its level of designing of irrigation system to meet requirement for the Designing Guideline are decided. 2. A Designing Guideline is prepared. 3. Handling manual for the Designing Guideline is	All fields and technical items contained into previous similar instructions are included in Designing Guideline. By 20XX, the Designing Guideline is completed for its preparation. By 20XX or before starting of guideline delivering, the	Result of interview survey to personnel concerned on the needs of preparation Designing Guideline for irrigation development Designing Guideline Handling manual	Districts and concerned agencies have technical capability and financial resource to fully conduct designing designated into the Designing Guideline. Management system of the Designing Guideline exists and function properly in every concerned agencies.
prepared. 4. Copy of the Designing Guideline is delivered to each district and section related irrigation development.	guideline delivering, the handling manual is completed for its preparation. By 20XX, the guideline is completely delivered.	Record of delivery of the Designing Guideline	

Activities	Inputs		
		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	All necessary arrangement
1-1Study previous failures in	Donor	GOT	for the stationing of the
designing and construction due	, n		management system of the
to lack of necessary technology	Preparation Team	Personnel	guideline will be fulfilled or
in designing.	1) Irrigation system 6 months	1) Counterparts in each	schedule by any reliable
	2) Structure 6 months	subject	parties concerned.
1-2Study requirement for	3) Hydraulics 6 months		
designing for irrigation	4) River/Watershed 6 months		
development.	5) Structure design 6 months		·
	6) Geology 3 months		
1-3Review previous designing	7) Land use, GIS 6 months	Equipment	
guidelines prepared by any	8) Agronomy 6 months	1) Office L.S.	
other projects/programmes.	9) Environment 3 months	2) Others L.S.	
ukajima di Kalibaria da ja	10)participation 4 months		
2 Prepare the Designing			Preconditions
Guideline reflecting identified			
requirement for the guideline.		Budget	It is clearly confirmed the
	Equipment	Salaries and necessary	needs of preparation of the
医异形菌 医洗涤剂 医电压电流	l) Vehicles L.S.	expenses for counterparts	Designing Guideline is
3-1Plan a management and	2) GIS L.S.	2) Some portion of the	recognized in local
utilizing system of the	3) Others L.S.	budget for publication of	government agencies and
guideline.		the Guideline	private groups.
	→ ときまます。 こうとうない	3) Necessary expenditures in	bering Brosho.
3-2Prepare the handling manual in	Budget	operation of the system	
line with the management	Some part of expenditures of		
plan.	local activities related to the		
	Project.		
Transport copies of the			}
Designing Guideline to the			
agencies designated in the			
management plan.			

PDM of the Programme C3.1

(Operation and Maintenance (O&M) Guideline Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration:	2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date:	August 2002

Narrative Summary	Objectively Verifiable	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal To attain the objectives of NIMP by means of well utilizing of the O&M guideline.	By 20XX, the O&M guideline is utilized at the stage of operation for 80 % of irrigation schemes newly planned by IS	Operation Reports for new irrigation scheme from 2002 to 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
	and districts since 2002.		
Project Purpose			
O&M Guideline which is convenient for the works of operation and maintenance of any irrigation schemes is completed.	a) By 20XX, completed O&M Guideline is approved by officials concerned.	Official document on approval of the O&M Guideline.	Good circumstance for utilization of the O&M Guideline is maintained.
A copy of the O&M Guideline is placed in each district and section related irrigation development.	b) In 20XX, delivered copies of the O&M Guideline are confirmed popularity in their sections (positive for more than 80%).	Report on-the-spot investigation (An on-the spot investigation shall be taken)	When revised the O&M Guideline, delivered one should be replaced smoothly.
Outputs			
1. Fields and its level of works in O&M of irrigation system to meet requirement for the O&M Guideline are decided. 2. A O&M Guideline is prepared.	All technical and sociological items contained into previous similar instructions are included in O&M Guideline. By 20XX, the O&M Guideline is completed for its preparation.	Result of interview survey to personnel concerned on the needs of preparation O&M Guideline for irrigation development O&M Guideline	Districts and concerned farmers groups have technical capability and financial resource to fully conduct O&M designated into the O&M Guideline. Management system of the
3. Handling manual for the O&M Guideline is prepared.	By 20XX or before starting of guideline delivering, the handling manual is completed for its preparation.	Handling manual	O&M Guideline exists and function properly in every concerned agencies.
 Copy of the O&M Guideline is delivered to each district and section related irrigation development. 	By 20XX, the guideline is completely delivered.	Record of delivery of the O&M Guideline	
Activities	Inputs		
1-1Study previous failures in operation and maintenance due to lack of necessary technology in O&M. 1-2Study requirement for operation and maintenance for	Preparation Team 1) Irrigation system 6 months 2) Structure 6 months 3) Water management6 months 4) River/Watershed 6 months	GOT Personnel 1) Counterparts in each subject	All necessary arrangement for the stationing of the management system of the guideline will be fulfilled on schedule by any reliable parties concerned.
irrigation development. 1-3Review previous O&M guidelines prepared by any other projects/programmes.	5) Structure design 6 months 6) Farmers group 6 months 7) Accounting 6 months 8) Agronomy 6 months 9) Environment 3 months 10) participation 4 months	Equipment 1) Office L.S. 2) Others L.S.	

Attachment I				
2 Prepare the O&M Guideline reflecting identified				Preconditions
requirement for the guideline.	Equipment 1) Vehicles 2) Office equipment	L.S. L.S.	Budget 1) Salaries and necessary expenses for counterparts	It is clearly confirmed the needs of preparation of the O&M Guideline is
3-1Plan a management and utilizing system of the guideline.	3) Others Budget	L.S.	Some portion of the budget for publication of the Guideline Necessary expenditures in	recognized in local government agencies and farmers groups.
3-2Prepare the handling manual in line with the management plan	Some part of expenditure local activities related Project.		operation of the management system of the guideline	
Transport copies of the O&M Guideline to the agencies designated in the management plan.				

PDM of the Programme C3.2

(Monitoring and Evaluation (M&E) Guideline Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration:	2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date:	August 2002

<u> </u>	· · ·	
By 20XX, the M&E guideline is utilized at the stage of operation for 80 % of irrigation schemes newly planned by IS and districts since 2002.	Operation Reports for new irrigation scheme from 2002 to 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
a) By 20XX, completed M&E Guideline is approved by officials concerned.	Official document on approval of the M&E Guideline.	Good circumstance for utilization of the M&E Guideline is maintained.
b) In 20XX, delivered copies of the M&E Guideline is confirmed popularity in their sections (positive for more than	Report on-the-spot investigation (An on-the spot investigation shall be taken)	When revised the M&E Guideline, delivered one should be replaced smoothly.
80 %).		Results of monitoring and evaluation on irrigation schemes' performance utilizing the M&E guideline are properly reflected to the improvement of the irrigation system so as to maintain good project cycle.
All technical and socio-economical items contained into previous similar instructions are included in M&E Guideline.	Result of interview survey to personnel concerned on the needs of preparation M&E Guideline for irrigation development	Districts and concerned agencies have technical capability and financial resource to fully conduct M&E designated into the M&E Guideline.
By 20XX, the M&E Guideline is completed for its preparation. By 20XX or before starting of	M&E Guideline Handling manual	Management system of the M&E Guideline exists and function properly in every concerned agencies.
guideline delivering, the handling manual is completed for its preparation. By 20XX, the guideline is completely delivered.	Record of delivery of the M&E Guideline	
	operation for 80 % of irrigation schemes newly planned by IS and districts since 2002. a) By 20XX, completed M&E Guideline is approved by officials concerned. b) In 20XX, delivered copies of the M&E Guideline is confirmed popularity in their sections (positive for more than 80 %). All technical and socio-economical items contained into previous similar instructions are included in M&E Guideline. By 20XX, the M&E Guideline is completed for its preparation. By 20XX or before starting of guideline delivering, the handling manual is completed for its preparation. By 20XX, the guideline is	a) By 20XX, completed M&E Guideline is approved by officials concerned. b) In 20XX, delivered copies of the M&E Guideline is confirmed popularity in their sections (positive for more than 80 %). All technical and socio-economical items contained into previous similar instructions are included in M&E Guideline. By 20XX, the M&E Guideline is completed for its preparation. By 20XX or before starting of guideline delivering, the handling manual is completed for its preparation. By 20XX, the guideline is 20XX Official document on approval of the M&E Guideline. Report on-the-spot investigation (An on-the spot investigation shall be taken) Result of interview survey to personnel concerned on the needs of preparation M&E Guideline W&E Guideline Handling manual Record of delivery of the M&E Guideline

Activities

- 1-1Study causes of failure in the previous failed irrigation schemes due to lack of necessary improvement works after completion of the schemes.
- 1-2Study requirement for monitoring and evaluation for irrigation schemes.
- I-3Review previous M&E guidelines prepared by any other projects/programmes.
- 1-4Study adequate measures and coping system for the monitored and evaluated result in irrigation schemes.
- 2 Prepare the M&E Guideline reflecting identified requirement for the guideline.
- 3-1Plan a management and utilizing system of the guideline.
- 3-2Prepare the handling manual in line with the management plan..
- Transport copies of the M&E Guideline to the agencies designated in the management plan.

Inputs

Donor

Preparation Team

- 1) M&E 6 months
 2) Irrigation system 6 months
 3) Socio-economy 6 months
- 4) System performance
- 5) Farmers group 6 months 6) Accounting 6 months
- 6) Accounting 6 months 7) Agronomy 6 months 8) Environment 3 months
- 9) Participation 4 months

GOT

Personnel

- Counterparts in each subject
- Equipment
 - 1) Office

2) Others L.S.

L.S.

All necessary arrangement for the stationing of the management system of the guideline will be fulfilled on schedule by any reliable parties concerned.

Preconditions

It is clearly confirmed the needs of preparation of the M&E Guideline is recognized in local government agencies and farmers groups.

Equipment

- 1) Vehicles L.S. 2) Office equipment L.S.
- 3) Others L.S.

Budget

Some part of expenditures of local activities related to the Project.

Budget

- Salaries and necessary
 expenses for counterparts
- Some portion of the budget for publication of the Guideline
- Necessary expenditures in operation of the management system of the guideline

PDM of the Programme C4

(Farmers' Participation in Irrigation Development) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	<u>Duration: 2003 - 2017 (15 years)</u>
Project Area: Tanzania	Target Agency: MAFS	Date: August 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal To attain the objectives of NIMP by means of well participation of farmers in irrigation development.	By 20XX, for new irrigation schemes of more than 80 % of the schemes started since 2002, PRA is properly conducted. And, all village irrigation schemes are progressed by self-determination and self-reliance of farmers.	Investigation Reports for new irrigation schemes including village irrigation schemes from 2002 to 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose A Guideline for farmers' participation is prepared. Some numbers of pilot model irrigation schemes for farmers' participation are established, and replicable effects of the pilot models for farmers' participation is expanded to other areas.	a) By 20XX, completed Farmers' Participation Guideline is approved by officials concerned. b) Special and appropriate supports for farmers' participation are given in XX irrigation schemes	Official document on approval of the Guideline. Report on-the-spot investigation (An on-the spot investigation shall be taken)	Districts (or LGA) are strengthened their capability so as to backstop farmers' participation in irrigation development independently. Necessary resources are adequately given in order to implement the pilot model strengthening.
	c) Totally and annually more than XX times of farmers' visiting for learning form other areas to the pilot model schemes are taken. d) XXX sheets of the leaflet are provided and spread in all over the country.	Follow-up Report of the special support to the pilot model schemes Record of preparation and treatment of the leaflet	The Guideline for farmers' participation is utilized and maintained properly. Several opportunities of other villagers to visit to the pilot model irrigation scheme for farmers' participation.

Outputs			
1-1 Contents for the Farmers' Participation Guideline are decided.	All fields and items contained into previous similar instructions are included in the Farmers' Participation Guideline.	Result of interview survey to personnel concerned on contentment of the Farmers' Participation Guideline for their requirement.	Districts and concerned agencies have technical capability and financial resource to fully support farmers participation in
1-2The Farmers' Participation Guideline is prepared.	By 20XX, the Farmers' Participation Guideline is completed for its preparation.	Farmers' Participation Guideline	irrigation development. Management system of the Farmers' Participation
2-1 Typical irrigation schemes for good farmers' participation are selected as the pilot models.	By 20XX, the strengthening Plan for farmers' participation will be completed.	Completion Report for the Strengthening Plan	Guideline exists and func properly in every concern agencies.
2-2 Strengthening Plan for farmers' participation to the selected pilot schemes are made.			
2-3The Strengthening Plan for farmers' participation is executed in the pilot schemes.			
3-1 Good farmers' participation is maintained in the pilot schemes.	Good farmers participation continues	Follow-up Report of the Strengthening Plan	
3-2Tours of other villagers to the pilot schemes are prepared and executed often.	By 20XX, XX times tours and scheduled and executed.	Record of Tours	Villagers participated the tours will soundly reflect lesson learned through th tours to their own life.
4. Leaflet propagating pilot model effects for strengthening farmers' participation is prepared as being effective.	By 20XX, the leaflet is completed its preparation.	Memorandum on the preparation of the leaflet	Prepared leaflet will be spread effectively.
Activities	Inputs	<u> </u>	
1.1.1 Review previous similar references on farmers' participation. 1.1.2 Study on the contents of the guideline for farmers' participation. 1.2 Prepare the Farmers'	Preparation Team 1) Participation 12 months 2) Irrigation 12 months 3) Rural develop't 6 months 4) Extension 12 months 5) Agriculture 6 months 6) Coordinator 12 months	GOT Personnel 1) Counterparts in each subject	All necessary arrangements of the Farmers' Participa Guideline are completed every districts and organizations concerned.
participation Guideline reflecting identified requirement for the guideline.	Field workers L.S.	Equipment 1) Office L.S. 2) Others L.S.	· · ·
2.1.1Prepare an inventory of irrigation schemes for farmers' participation in consideration with the irrigation scheme inventory prepared in NIMP Study.	Equipment 1) Vehicles L.S. 2) GIS L.S. 3) Others L.S.	Budget 1) Salaries and necessary expenses for counterparts 2) Some portion of the budget for publication of	
 1.2Make a criteria of scheme selection for the pilot model for strengthening farmers' participation. 	Budget Some part of expenditures of local activities related to the Project.	the Guideline 3) Necessary expenditures in operation of the system	
2.1.3Select pilot model schemes among possible schemes listed in the inventory.			
2.2 Prepare the Strengthening Plan for farmers participation to the selected pilot schemes.			
	IAT -	- 29	

- 2.3.1Arrenge necessary resources for implementation of the Strengthening Plan.
- 2.3.2Implement the Strengthening Plan as planned.
- 3.1.1Montor the performance of farmers' participation in the pilot schemes.
- 3.1.2Support in O&M of the pilot schemes as required.
- 3.2.11 Arrenge necessary resources for implementation of villagers tour to the pilot scheme.
- 3.2.2Plan tours of visiting pilot schemes.
- 3.2.3Conduct the tours as scheduled.
- 4.1 Draft leaflet for the effect of strengthening farmers' participation.
- 4.2 Finalize the draft of leaflet.
- 4.3 Print leaflet at required sheets.

Preconditions

It is clearly confirmed the needs of strengthening farmers participation is recognized in local government agencies and private groups.

PDM of the Programme C5

(Village Irrigation Development (VID) Guideline Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration: 2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date: June 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal		 	
To attain the objectives of NIMP by means of well utilizing of the Village Irrigation Development (VID) Guideline	By 20XX, the VID guideline is utilized for planning, designing, construction and O&M of more than 80 % of village irrigation schemes newly implemented by districts and farmers' groups since 2002.	Investigation Reports for new village irrigation schemes from 2002 to 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose			
Village Irrigation Development (VID) Guideline which is convenient for planning, designing, construction and O&M of new village irrigation scheme is completed.	a) By 20XX, completed VID Guideline is approved by officials concerned. b) In 20XX, delivered copies of	Official document on approval of the VID Guideline. Report on-the-spot	Districts (or LGA) are strengthened their capability so as to fulfill village irrigation development independently.
A copy of the VID Guideline is placed in each district and organization related irrigation development including NGOs.	the VID Guideline are confirmed popularity in their areas (positive for more than 80 %).	investigation (An on-the spot investigation shall be taken)	Good circumstance for utilization of the DIV Guideline is maintained.
			When revised the Survey Guideline, delivered one should be replaced smoothly.
Outputs			<u> </u>
Fields and its level of contents for the VID Guideline are decided.	All fields and items contained into previous similar instructions are included in the VID Guideline.	Result of interview survey to personnel concerned on contentment of the VID Guideline for their requirement.	Districts and concerned agencies have technical capability and financial resource to fully conduct
2. A VID Guideline is prepared.3. Handling manual for the VID	By 20XX, the VID Guideline is completed for its preparation	VID Guideline	survey and/or investigation designated into the Survey Guideline.
Guideline is prepared.	By 20XX or before starting of guideline delivering, the handling manual is completed for its preparation.	Handling manual	Management system of the Survey Guideline exists and function properly in every concerned agencies.
Copy of the VID Guideline is delivered to each district and organization related irrigation development including NGOs.	By 20XX, the guideline is completely delivered.	Record of delivery of the VID Guideline	
Activities	Inputs	<u>. </u>	
1-1Study previous remarkable efforts of farmers' groups and districts for village irrigation schemes.	Preparation Team 1) Rural Develop't 6 months 2) Irrigation 6 months	GOT Personnel 1) Counterparts in each subject	All necessary arrangement for acceptance and utilization of the VID Guideline are completed in every districts and organizations concerned.
1-2Study previous failures in village irrigation schemes due to lack of technical (e.g. micro-irrigation etc.) and socio-economical	3) Meteo-hydrology 3 months 4) Topo-survey 3 months 5) Hydraulics 3 months 6) Geology 3 months 7) Land use, GIS 3 months	Equipment	

:			
Attachment 1			
considerations.	8) Agronomy 3 months	1) Office L.S.	Preconditions
	9) Environment 3 months	2) Others L.S.	
-3Identify requirement for	10) Structure design 6 months		It is clearly confirmed the
planning, designing,	11) Construction 6 months		needs of preparation of the
construction and O&M of	12) Farmers group 6 months		VID Guideline is recognize
village irrigation scheme	13) Participation 6 months	Budget	in local government agencie
development,	14) O&M 6 months	1) Salaries and necessary	and private groups.
		expenses for counterparts	man primate groups.
Prepare the VID Guideline		2) Some portion of the	
reflecting identified		budget for publication of	
requirement for the guideline.	Equipment	the Guideline	
	I) Vehicles L.S.	3) Necessary expenditures in	
	2) GIS L.S.	operation of the system	
-1Plan a management and	3) Others L.S.		
utilizing system of the			
guideline.			
	Budget		
-2Prepare the handling manual in	Some part of expenditures of		
line with the management	local activities related to the		
plan	Project.		
. Transport copies of the VID			
Guideline to the organizations			
designated in the management			
plan.			

PDM of the Programme C6

(Farmers' Operation and Maintenance (F'O&M) Manual Establishment) under MIMP - Tentative

Project Name: National Irrigation Master Plan	Duration: 2003 - 2017 (15 years)
Project Area: Tanzania Target Agency: MAFS	Date: August 2002
7-11 Floor	001

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal To attain the objectives of NIMP by means of well utilizing of the Farmers' O&M(F'O&M) manual for farmers.	By 20XX, the F'O&M manual is utilized for farmers at the stage of operation for 80 % of irrigation schemes newly planned since 2002.	Operation Reports for new irrigation scheme from 2002 to 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose			
Farmers' O&M Manual which is convenient for the farmers' works and activities to be taken during operation and maintenance of any irrigation schemes is completed.	a) By 20XX, completed F'O&M Manual is approved by officials concerned.	Official document on approval of the F'O&M Manual.	Good circumstance for utilization of the F'O&M Guideline is maintained.
A copy of the F'O&M Manual is placed in each district, section related irrigation development and farmers' organization of every implemented schemes. Outputs	b) In 20XX, delivered copies of the F'O&M Manual are confirmed popularity in their works on O&M (positive for more than 80%).	Report on-the-spot investigation (An on-the spot investigation shall be taken)	When revised the F'O&M Guideline, delivered one should be replaced smoothly.
Fields and its level of works in O&M of irrigation system to meet requirement for the F'O&M Manual are decided.	All technical and sociological items and points related to PCM management contained into previous similar instructions are included in F'O&M Manual.	Result of interview survey to personnel concerned on the needs of preparation O&M Guideline for irrigation development	Concerned farmers groups have technical capability and financial resource to fully conduct O&M designated into the F'O&M Manual, under the backstopping of LGAs.
2. A O&M Guideline is prepared.	By 20XX, the F'O&M Manual is completed for its preparation.	F'O&M Manual	Management system of the F'O&M Manual exists and
3. Handling manual for the F'O&M Manual is prepared.	By 20XX or before starting of manual delivering, the handling guide is completed for its preparation.	Handling Guide	function properly in every concerned groups.
 Copy of the F'O&M Manual is delivered to each district and section related irrigation development. 	By 20XX, the guideline is completely delivered.	Record of delivery of the F'O&M Manual	

A - Al- stat -			
Activities	Inputs		
1 1Ctude provious follows:	70	dom	All necessary arrangement
1-1Study previous failures in	Donor	COT	for the stationing of the
operation and maintenance due	n		management system of the
to lack of necessary farmers'	Preparation Team	Personnel	manual will be fulfilled on
efforts in O&M.	1) Irrigation system 6 months	1) Counterparts in each	schedule by any reliable
1004.1	Irrigated agriculture	subject	parties concerned.
1-2Study requirement to farmers	6 months	er and the second	
in operation and maintenance	3) Water management6 months		
on the whole,	4) Water rights 3 months]
	5) Structures 3 months		
1-3Review previous O&M	6) Farmers group 6 months	Equipment	
manuals for farmers prepared	7) Accounting 6 months	1) Office L.S.	
by any other	8) Marketing 6 months	2) Others L.S.	
projects/programmes.	9) Environment 3 months		
	10)Participation 4 months		Preconditions
2 Prepare the F'O&M Manual	A Committee of the Comm		
reflecting identified		Budget	It is clearly confirmed the
requirement for the manual		Salaries and necessary	needs of preparation of the
	Equipment	expenses for counterparts	F'O&M Manual is
	1) Vehicles L.S.	2) Some portion of the	recognized in local
3-1Plan a management and	2) Office equipment L.S.	budget for publication of	government agencies and
utilizing system of the	3) Others L.S.	the Guideline	farmers groups.
manual.		3) Necessary expenditures in	
		operation of the	
3-2Prepare the handling guide in	Budget	management system of	
line with the management	Some part of expenditures of	the guideline	
plan	local activities related to the		
	Project,		
4. Transport copies of the	-		
F'O&M Manual to the			
organizations designated in the			
management plan.			
ាល ម៉ាស៊ីនស្លាំកាលសុខសម្រា			

PDM of the Programme C7

(Establishment of DADP Formulation Guideline for Irrigated Agriculture Development (DADP-IA))

under NIMP - Tentative

 Project Name: National In 	rigation Master Plan	<u>Durat</u>	ion: 2003 - 2017 (15 y	ears)
	Programme Freeze and American	Asset to a second of the Control	4.4	
Project Area: Tanzania	Target Agenc	cy: MAFS Date:	August 2002	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal To attain the objectives of NIMP by means of well utilizing of the DADP-IA formulation Guideline which indicate proper know-hows to formulate successfully the part for irrigated agriculture development within DADP.	By 20XX, the DADP-IA Guideline for is utilized for planning, designing, construction and after-care of more than 80 % of small-scale irrigation schemes and village irrigation schemes newly implemented by districts and farmers' groups since 2002.	Investigation Reports for new irrigation schemes promoted by LGAs from 2002 to 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose			
DADP-IA Guideline which is convenient for planning of new irrigation scheme dealt with Districts is completed.	a) By 20XX, completed DADP-IA Guideline is approved by officials concerned.	Official document on approval of the DADP-IA Guideline.	Districts (or LGA) are strengthened their capability so as to fulfill irrigation development independently.
A copy of the DADP-IA Guideline is placed in each district and organization related irrigation development (including NGOs).	b) In 20XX, delivered copies of the DADP-IA Guideline are confirmed popularity in their districts (positive for more than 80 %).	Report on-the-spot investigation (An on-the spot investigation shall be taken)	Good circumstance for utilization of the DADP-IA Guideline is maintained. When revised the DADP-IA
			Guideline, delivered one should be replaced smoothly.
Outputs			
Fields and its level of contents for the DADP-IA Guideline are decided.	All fields and items contained into previous and on-going similar instructions are included in the DADP-IA Guideline.	Result of interview survey to personnel concerned on contentment of the DADP-IA Guideline for their requirement.	Districts have technical capability and financial resource to fully prepare DADP designated into the DADP-IA Guideline.
2. A DADP-IA Guideline is prepared.	By 20XX, the DADP-IA Guideline is completed for its	DADP Guideline	Management system of the
Handling manual for the DADP-IA Guideline is prepared.	preparation. By 20XX or before starting of guideline delivering, the handling manual is completed for its preparation.	Handling manual	DADP-IA Guideline exists and function properly in every concerned agencies
4. Copy of the DADP-IA Guideline is delivered to each district and organization related irrigation development (including NGOs).	By 20XX, the guideline is completely delivered.	Record of delivery of the DADP-IA Guideline	

Attachment 1	T		
Activities	Inputs		
1 102 1 11			All necessary arrangement
1-1Study problems and	Donor	GOT	for acceptance and utilizatio
constraints of districts when			of the DADP-IA Guideline
districts plan irrigation	Preparation Team	Personnel	are completed in every
development independently,	1) Rural Develop't 6 months	Counterparts in each	districts and organizations
	2) Irrigation 6 months	subject	concerned
	3) Meteo-hydrology 3 months		
	4) Topo-survey 3 months		
1-2Study previous failures in	5) Hydraulics 3 months		Preconditions
irrigation schemes planned by	6) Geology 3 months		
districts due to lack of	7) Land use, GIS 3 months	Equipment	It is clearly confirmed the
technical and socio-economical	8) Agronomy 3 months	I) Office L.S.	needs of preparation of the
considerations.	9) Environment 3 months	2) Others L.S.	DADP-IA Guideline is
	10) Structure design 6 months		recognized in central
1-3Identify requirement for	11) Construction 6 months		government, local
districts in planning of	12) Farmers group 6 months		government agencies and
irrigation scheme development.	13) Participation 6 months	Budget	private groups.
A 70 11 7 17 7 1	14) O&M 6 months	Salaries and necessary	
2 Prepare the DADP-IA	15) Institution 6 months	expenses for counterparts	
Guideline reflecting identified		2) Some portion of the	
requirement for the guideline.		budget for publication of	
		the Guideline	
3-1Plan a management and	Equipment	Necessary expenditures in	
utilizing system of the	1) Vehicles L.S.	operation of the system	
guideline.	2) GIS L.S.		
2.00	3) Others L.S.		
3-2Prepare the handling manual in			
line with the management			
plan.	Budget		
4. Transaction of the	Some part of expenditures of		
4. Transport copies of the DADP-IA Guideline to the	local activities related to the		
	Project.		
organizations designated in the			
management plan.			

PDM of the Programme D1

(Web-site and Network System Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration; 2003 - 2017 (15 years)
Project Area: Tanzanja	Target Agency: MAFS	Date: August 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal			
To stimulate and facilitate			
agricultural sector growth, and to	Language of the second		
reduce rural poverty			
		•	1
Overall Goal			
To attain the objectives of NIMP	In 20XX, response of the IS is	Record of network performance	Other related programmes of
by means of well facilitation of	improved. Number of official	in 2002 and 20XX	NIMP are animatedly
A Company of the Comp	communication through the		implemented as scheduled
Web-site and network system over	network concerning to the IS is		
the Irrigation Section (IS).	more than 3 time of the same in		}
	2002.		
Project Purpose			
Web-site for IS is established.	In 20VV more than 90 0/ of	Depart on the good incometion	C1
wed-she for is is established.	In 20XX, more than 80 % of	Report on-the-spot inspection	Good circumstance for
And late estimatements:	staff of IS including ZIOs are able to access intra-network	for accessibility to the MAFS's intra-network.	utilization of the
And, intra-network system is extended within IS and in between		mua-network.	intra-network and its
ZIOs.	system individually at their office.		management system is maintained.
ZiOs.	onice.		maintained.
			Sound moral of IS's staff in
			utilization of the
			intra-network are kept.
Outputs			
Outputs			
1. Web-site for IS is opened.	By 20XX, the extending work	Report on-the-spot	Staff concerning IS can
	of the intra-network to IS is	investigation for the extension	operate intra-networks
2. Up-dating routine for the	completed.	work of the intra-network.	individually, otherwise,
web-site is established.			training and short course for
			learning are provided
3. Extending plan of the MAFS			properly.
intra-network to the IS is made.			Francis
4. The extending plan of the			
intra-network is executed.			
		4.5	
Activities	Inputs		
1 1D	8	COT	A 33
1-1Procure necessary equipment	Donor	GOT	All necessary arrangement
to IS in order to open the web-site for IS.	Description Toom	Dorgowal	for installation within the
wed-site for 15.	Preparation Team	Personnel	programme will be fulfilled
1.2 Puild up the web ==== fo= ro	System engineer 3 months Web-site specialist	1) Counterparts in each	on schedule by concerned
1-2 Build up the web-site for IS.		subject	section in MAFS.
1 Make a plan of the deti	3 months	Vaniomant	
2-1 Make a plan of the up-dating	3) Intra-net specialist	Equipment	
routine for the web-site.	3 months	1) Office L.S.	
10 Facility than 10		2) Others L.S.	
2-2 Establish the up-dating routine	Computer operator	A Commence of the Commence of	
for the wed-site into the	(as required)		
organization of IS.	1	•	

2.17
3-1Investigate required
procurement and installation
for expanding the
intra-network to IS.
3-2 Make a plan of intra-network

- expanding.
- 4-1 Arrange conditions so that the plan can be commenced.
- 4-2 Commence the plan of intra-network expanding.

- Equipment
 1) Computer system L.S.
 2) Equipment for networking L.S.
 wioment L.S.
 1.S.

 - 3) Office equipment4) Others L.S.

Budget Some part of expenditures of local activities related to the programme.

- Budget
 1) Salaries and necessary
 expenses for counterparts
 - 2) Some portion of the budget for installation of lines for networking
 - 3) Necessary expenditures in operation of the system.

Preconditions

It is clearly confirmed the needs of preparation of the web-site of IS and networking is recognized in MAFS and IS.

MASF can provide necessary resources for the execution of this programme

PDM of the Programme D2

(Technical Manuals Handling Guideline Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	<u>Duration:</u>	2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date:	August 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal			
To attain the objectives of NIMP by means of well utilizing of the technical manuals as regulated in the technical manuals handling guideline (TMH Guideline).	By 20XX, Parson in charge of the every concerned offices can answer where delivered technical guidelines and manuals are stationed in their office for open use.	Report of interview survey for utilization of technical references	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose			
Technical Manuals Handling TMH Guideline which is convenient for handling and managing all technical references is completed.	a) By 20XX, completed TMH Guideline is approved by officials concerned	Official document on approval of the TMH Guideline.	Circumstances for utilization of technical references are improved and maintained as regulated by the TMH Guideline.
A copy of the TMH Guideline is placed in each section related irrigation development in central government and districts.	b) In 20XX, delivered copies of the TMH Guideline are confirmed popularity in their sections (positive for more than 80%).	Report on-the-spot investigation (An on-the spot investigation shall be taken)	When revised the TMH Guideline, delivered one should be replaced smoothly.
Outputs	80 70).		
Realistic utilization system for technical references is drawn up.	All issues on utilization of technical references which are prevailed in PCM workshop are considered anyhow.	Result of PCM problem analysis on utilization of technical references	Districts and concerned agencies have technical capability and financial resource to fully manage technical references in
2. A TMH Guideline is prepared.	By 20XX, the TMH Guideline is completed for its preparation.	TMH Guideline	accordance with the TMH Guideline.
Copy of the TMH Guideline is delivered to each section related irrigation development in central government and districts.	By 20XX, the guideline is completely delivered.	Record of delivery of the TMH Guideline	
Activities	Inputs		
1-1Study previous malfunction of technology management which caused scheme's failure. 1-2Contrive improvement plan of	Donor Preparation Team 1) Knowledge Management 3 months	GOT Personnel 1) Counterparts in each subject	All necessary arrangement for the stationing of the management system of the guideline will be fulfilled on schedule.
management system for technical references utilization.	2) Technology training 3 months	Equipment	

- 2 Prepare the TMH Guideline reflecting improvement idea for technical references handling.
- 3. Transport copies of the TMH Guideline to the agencies designated in the management plan.
- 3) Irrigation4) Institution

Equipment

Budget

Project.

Office equipment
 Others

Some part of expenditures of local activities related to the

3 months 3 months

]

L.S.

L.S.

Budget
1) Salaries and necessary
expenses for counterpar

1) Office 2) Others

- expenses for counterparts
 2) Some portion of the budget for publication of the Guideline
- Necessary expenditures in operation of the system

Preconditions

L.S. L.S.

It is clearly confirmed the needs of preparation of the TMH Guideline is recognized in local government agencies.

PDM of the Programme D3

(Information and Database Improvement) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration	: 2003 - 2017 (15 years)
Project Area: Tanzanja	Target Agency; MAFS	<u>Date:</u>	August 2002	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overell Gool			
Overall Goal To attain the objectives of NIMP by means of well facilitation of necessary Information and Database System (I&D) related to irrigation development and management.	By 20XX, the I&D system built up by this programme is utilized at any stages for 80 % of irrigation schemes newly planned by IS and districts since 2002.	Progress Reports for new irrigation scheme from 2002 to 20XX	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose			
Databases related to irrigation development and management are completed and started for its services.	In 20XX, the databases are in condition for open use to personnel of IS and others.	Report on-the-spot inspection for operational condition of the databases (An on-the-spot inspection shall be taken)	Good circumstance for utilization of the databases and its management system is maintained. When revised the system and database itself, the former ones should be replaced smoothly.
Outputs			
Databases related to irrigation development and management are constructed. Operation manual for the databases are prepared.	The constructed databases are confirmed its workability and demonstrated for commonly use. By 20XX, the operation manual for the databases is completed	Report of Briefing Session on utilization of the databases (Several briefing Session for IS personnel and others shall be held) Operational Manual	Districts and concerned agencies have technical capability and financial resource to manage and operate the constructed databases and its system properly.
	for its preparation.		
Up-dating system for the databases is structured. Activities	In the year of passing 3 years after inaugurating of the databases, the up-dating system will be confirmed its function by means of confirming the fact of databases updating. Inputs	Report on-the-spot investigation for updating of databases.	
1-1Identify necessary kind and	Denor	COT	All necessary arrangement
modality of database to be required for the purpose of irrigation development and management.	Preparation Team 1) Database 6 months 2) Computer system 6 months 3) Data processor 6 months	Personnel 1) Counterparts in each subject	for installation of databases will be fulfilled on schedule by concerned section in MAFS.
1-2 Prepare all required kinds of databases so as to utilize either GIS technology.	4) GIS specialist 6 months Computer operator (as required)	Equipment 1) Office L.S. 2) Others L.S.	

- 2-11dentify types of computer system by which constructed databases are accessed.
- 2-2Prepare operation manual for the databases so as to be operational for the identified computer systems.
- 3-1Investigate possible resources to be mobilized for database up-dating under the present institutional conditions.
- 3-2 Make a cycle plan for updating databases by utilizing possible resources in MAFS.

Subject specialist for the subject of database

(as required)

L.S.

Equipment

- Computer system
 Office equipment L.S. L.S.
- 3) Others

Budget

Some part of expenditures of local activities related to the Project.

Budget

- 1) Salaries and necessary expenses for counterparts
- Some portion of the budget for installation of databases.
- 3) Necessary expenditures in operation of the databases.

Preconditions

It is clearly confirmed the needs of preparation of the databases and its operation system is recognized in MAFS and local government agencies concerning to irrigation development.

MASF can provide necessary resources for operation of database updating, otherwise, strengthen organization of IS so that IS can deal with the updating tasks.

PDM of the Programme D4

(Irrigation Development Contractors and Consultants' Listing) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	<u>Duration:</u>	2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date:	June 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal			
To stimulate and facilitate			
agricultural sector growth, and to		•	
reduce rural poverty			
Overali Goal			
To attain the objectives of NIMP	a) By 20XX, number of	List of contractors for the	Other related programmes of
by means of good performance of	certified contractor for the work	tender of the works in irrigation	NIMP are animatedly
contractors	of irrigation development	development	implemented as scheduled.
	increases at 50 % compared to		
	2002.		
	b)Camulain Casta and and a	Distriction 6 1	
	b)Complain for the contractors' performance is decreased.	Reply of clients of implemented irrigation schemes to the	
	Clients satisfy contractors'	question of contractors'	
	performance in more than 80 %	performance.	
	of implemented irrigation	performance.	
	schemes.		
Project Purpose	Soliditos.		
Contractors and consultants'	a) By 20XX, the contractors	Completed contractors'	The contractors' inventory
inventory for the contract works	who have proper capacity for	inventory	will be handled in suitable
of irrigation development is	the contract of irrigation		manner.
completed.	development works can be		
	identified with their outlines.		
	b) After completion of the	Updated contractors' inventory	Inventoried contractor will
Up-dating system for the	contractors' inventory, the		display their proper skill in
contractors and consultants'	up-dating system will be		the works of irrigation
inventory is established.	confirmed its function by		development.
	means of confirming the fact of		
	the inventory updating annually.		
Outputs	amuany.		
Outputs			
1. Outlines of contractors having	More than 90 % of contractors	Result of contractor	Association of contractors or
proper capability above	registered are covered in the	investigation carried out under	other reliable organization is
required level are collected.	investigation of screening.	this programme, and list of	capable for managing the
	g	registered contractors	contractors inventory
2. Collected data for the		Б.	otherwise the association will
contractors are arranged in			be strengthened so as to take
specified format of inventory		i e e	charge of.
			·
3. Up-dating plan for the	The up-dating system plan is	Comments to the document	
contractors' inventory is made.	certified by the organizations	circular attached the up-dating	4.5
	concerned.	system plan for the contractors	
		inventory.	
4. The up-dating plan for the contractors' inventory is			
contractors' inventory is	1		
systematized.			

Attachment 1 Activities Inputs All necessary arrangement 1-1Prepare a guideline of contractors 'capability for applying irrigation for the stationing of the Donor COT up-dating system will be Study Team Personnel fulfilled on schedule by any development works. 1) Leader 3 months 1) Counterparts in each reliable parties concerned. 2) Construction 3 months subject 1-2 Investigate present situation of 3) Irrigation 3 months registered contractors through 4) Legislation 3 months questionnaire survey. 5) Investigators 3 months Preconditions 1-3 Screen contractors by the Equipment guideline. 1) Office L.S. An association of the Equipment 2) Others L.S. contractors exists and 1) Vehicles 2-1Decide an inventory format. L.S. functioning substantially. 2) Office equipment L.S. 2-2 Arrange data of contractors 3) Others L.S. It is clearly confirmed the into the specified format. Budget needs of contractors 1) Salaries and necessary inventory for open contract, 3-1 Plan up-dating cycle of the Budget by governmental personnel expenses for counterparts contractors inventory. 2) Allowances and expenses Some part of expenditures of and private sectoral people. local activities related to the of trainees concerning 3-2 Investigate required resources Project. experts' training for operating the up-dating 3) Some portion of the cycle. Some portion of the budget budget for establishment for establishment of of up-dating system 3-3 Adjust the up-dating cycle up-dating system plan to be realistic. 4-1Conduct a planning study for the establishment of contractors training system in line with decided framework. 4-2 Facilitate up-dating system in line with the plan.

PDM of the Programme D5

(LGAs' Data Organization) under NIMP - Tentative

Project Name: National Irrigation Master Plan		Duration: 2003 - 2017 (15 years)		
Project Area: Tanzania	Target Agency: MAFS	Date;	August 2002	

Narrative Summary	Objectively Verifiable	Means of Verification	Important Assumption
	Indicators	11 1 1	
Super Goal			
To stimulate and facilitate		}	1
agricultural sector growth, and to			
reduce rural poverty			
Overali Goal		∱er Seer Stadt in teach	
To attain the objectives of NIMP	By 20XX, all LGAs hold their	Filed information and data in	Other related programmes of
by means of skillful performance	own information and data on	the districts	NIMP are animatedly
of LGAs in organizing necessary	existing irrigation schemes and		implemented as scheduled.
data and information related to	planned schemes in the forms		
	specified by the data		
irrigation development and	organization system.		
management			
	And LGAs update those data		
	periodically.		
5-1-1-5		<u> </u>	
Project Purpose			
Total Andreas	T- 2077Y -11 T CLA 1 - E	D	
LGAs' data (related to irrigation	In 20XX, all LGAs apply the	Report on-the-spot inspection	Good circumstance for
development) organization system	"LGAs' Data Organization	to the districts offices	utilization of the information
are established or improved.	System", and there are assigned	(An on-the-spot inspection	& data and its management
	staff who deal with data	shall be taken)	system is maintained.
LGAs are enabled to organize	organization in their offices.		YY77 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
necessary information and data			When revised the system by
related to irrigation development			IS, the former ones should be
using the system.			replaced smoothly.
	j	j	1
Outputs			
Outputs			
1. Method and modality of data	Applicability of the proposed	Result of sample verifying	Districts and concerned
organization for LGAs offices	method and modality is	survey on the proposed method	agencies have technical
are framed	ensured.	and modality of data	capability and financial
		organization for LGAs	resource to manage and
		119.12.12.12.12.12.12.12.12.12.12.12.12.12.	operate the data organization
2. Preparation and Establishment	By 20XX, the manual for the	Preparation and Establishment	system properly
manual for the LGAs' data	system is completed for its	Manual	5,51511. £1.5 £ 5.1 .
organization system are	preparation.		ZIOs give districts' offices
prepared.			concerned adequate support
			and advices.
3. The data organization system is	The data organization system	Time schedule of the system	1
set up in the districts office in	establishment is expanded to	expanding to the districts	
line with the manual.	the districts in accordance with		
o kira diseba yakata inda direncio	a time schedule which is		
4. Established data organizational	programmed to complete by]
system in the districts start its	20XX.		·
operation.			
<u> </u>			.
Activities	Inputs		
医重氯化物 建氯化物医氯化物			
1-1Identify necessary kind and	Donor	GOT	All necessary arrangement
contents of information data to			for establishment of the data
be required for the purpose of	Preparation Team	Personnel	organization system will be
irrigation development and	Irrigation development	Counterparts in each	fulfilled on schedule by
management.	6 months	subject	districts.
	2) Data processing 6 months		
the state of the s	3) Data management 6 months		1

- 1-2 Decide method and modality of data organization for LGAs offices to meet requirement of data organizing.
- 2-11dentify process and supply to introduce the proposed data organization system in districts
- 2-2Prepare a manual for preparation and establishment of the data organization system in the districts.
- 3-1Prepare an implementation plan for establishing the data organization in the districts.
- 3-2 Implement establishment of the data organization in districts in accordance with the implementation plan.
- 4-1Lead districts' office concerned to operate the established data organization system properly.

4) LGA organization 3 months

Computer operator

Equipment

3) Others

Budget

Project.

Subject specialist for the

1) Computer system

2) Office equipment

Some part of expenditures of

local activities related to the

subject of data required

(as required)

(as required)

L.S.

L.S.

L.S.

(d)

Equipment
1) Office
2) Others

1) Office L.S. 2) Others L.S.

Budget

Salaries and necessary expenses for counterparts

2) Some portion of the budget for establishment of the system

Necessary expenditures in operation of the system.

Preconditions

It is clearly confirmed the needs of preparation of the LGAs' data organization system is recognized in MAFS and local government agencies concerning to irrigation development.

Other related programmes proposed in NIMP which enhance LGAs' capability and strength the linkage between LGAs and IS, are implemented keeping pace with

PDM of the Programme D6

(LGAs Networking System Establishment) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	Duration:	2003 - 2017 (15 years)
Project Area: Tanzania	Target Agency: MAFS	Date:	August 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal			
To stimulate and facilitate			
agricultural sector growth, and to			
reduce rural poverty			
Overall Goal			
To attain the objectives of NIMP	In 20XX, response of the	Record of network performance	Other related programmes of
	irrigation offices of districts is	in 2002 and 20XX	NIMP are animatedly
by means of well facilitation of	improved. Number of official	Mi 2002 tilla 20111	implemented as scheduled.
network system in the office	communication of districts	ı	implemented as somedated.
concerning to irrigation	concerning to irrigation	·	• .
development under the districts.	development through the		
	network is more than 3 time of		
	the same in 2002.		
Project Purpose			
Irrigation offices of districts are	By 20XX, more than 80 % of	Report on-the-spot inspection	Good circumstance for
enabled to access intra-new of IS	all irrigation offices of districts	for accessibility of internet to	utilization of internet and its
and ZIOs individually and at any	are able to access IS's	the irrigation offices of districts.	management system is
time, so as to communicate any	intra-network system	are brigation offices of districts	maintained in the districts.
matters of irrigation development.	individually at their office.		And the distriction of the second of the sec
			Sound moral of Irrigation
			offices' staff in utilization of
			the internet are kept.
Outputs			
1. Information facilities so as to	By 20XX, installation of	Report on-the-spot	Staff concerning IS can
access to internet is installed in	necessary information	investigation for the irrigation	operate intra-networks
the irrigation offices of districts.	equipment in order to link to	offices of districts.	individually, otherwise,
	internet is completed for all		training and short course for
2. Staff of the irrigation offices of	irrigation offices of districts.		learning are provided
districts can operate the			properly.
installed system to access to			
internet.			
3. The network system linked to			
internet installed in the			
irrigation offices of districts			
utilize effectively for the			
purpose of irrigation			
development.			
			* · · · · · · · · · · · · · · · · · · ·
Activities	Inputs		
1-1Procure necessary equipment	Donor	GOT	All necessary arrangement
to irrigation offices of districts	, DOMOI	GOX	for installation within the
in order to access to internet.		Budget	programme will be fulfilled
	Network specialist		on schedule by concerned
2-1 Train staff of irrigation offices	(as required)	1) Some portion of the	section in districts.
of districts so as to utilize	(======================================	budget for installation of	
internet in his duties for	Equipment	lines for networking	

z recommone i			
irrigation development.	1) Computer system L.S.	2) Some portion of the	Preconditions
	2) Equipment for networking	budget for installation of	
3-1Make a rule for utilization of	L.S.	necessary equipment	Local Government and/or
the network for official use only.	3) Others L.S.	3) Necessary expenditures in	districts can provide
		operation of the system.	necessary resources for the
	Budget		execution of this programme
	Some part of expenditures of		
	local activities related to the		
	programme.		

PDM of the Programme D7

(Existing Scheme Monitoring System Development) under NIMP - Tentative

Project Name: National Irrigation Maste	r Plan	<u>Duration: 2003 - 2017 (15 years)</u>
Project Area: Tanzania	Target Agency: MAFS	Date: July 2002

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Super Goal To stimulate and facilitate agricultural sector growth, and to reduce rural poverty			
Overall Goal To attain the objectives of NIMP through proper monitoring of existing schemes.	a) XX existing irrigation scheme (more than 80 % of all) are monitored properly. b) Technical solution will be given to the problems in the monitored schemes. The fact giving solution is recorded.	Output of the Monitoring system	Other related programmes of NIMP are animatedly implemented as scheduled.
Project Purpose An existing irrigation monitoring system is established. The monitoring system starts its operation as required.	a) By 20XX, the Project for establishment of the monitoring system is completed. b) In 20XX, the monitoring system starts its operation.	Annual report of the existing irrigation scheme monitoring system operation	No remarkable obstacles on establishment of the existing irrigation scheme monitoring system exist, or removed it when disrupted.
Outputs 1. Hardware of the monitoring system is stationed. 2. Software of the monitoring system (database of schemes, and necessary information etc.)	Mechanical function of the hardware is tested for good functioning. Usefulness of the software is tested.	Report of the mechanical function test for the hardware. Report of the test for the software.	Institutional arrangement for the establishment of the existing irrigation scheme monitoring system is successfully given without any delay.
is prepared. 3. Operation and utilized arrangement is systemized. 4. Up-dating system for the monitoring system is systemized. (linked with the programme D3)	By 20XX, the monitoring system starts its operation.	Record of performance of the monitoring system	All necessary arrangement for the establishment of the monitoring system is taken on schedule.
Activities 1-1Design computer system of the monitoring system 1-2Procure computer set (or arrange existing computer) for the monitoring system operation.	Inputs Donor Study Team 1) Monitoring 12 months 2) Computer system 12 months 3) Database 12 months 4) System operator 12 months	GOT Personnel 1) Counterparts in each subject Equipment 1) Office L.S.	Participation and cooperation of beneficiaries in the existing irrigation schemes will be kept.

2-1Design database and software for the monitoring system. 2-2 Investigate condition of existing irrigation system. 2-3 Prepare database and	Equipment 1) Computer system L.S.	2) Furniture and Acces. L.S. 3) Tel. and business eq. L.S.	Preconditions Necessity of proper monitoring for the existing irrigation system is recognized by almost
information file for the investigated condition of existing irrigation scheme.	2) network hardware L.S. 3) Others L.S.		personnel concerned in IS and LGAs.
 3-1 Design management structure for the monitoring system operation. 3-2 Arrange institutional set-up for the operation of the monitoring system in IS, ZIOs and designated districts. 3-3 Train staff concerned to operation of the monitoring system 4-1 Plan re-investigation cycle for the latest condition of the existing irrigation schemes. 	Budget Some part of expenditures of local activities related to the Project. Investigation study of present condition of existing irrigation scheme. Budget for installation of computer system and database	Budget 1) Salaries and necessary expenses for counterparts 2) Allowances and expenses of installation of the monitoring system 3) Necessary expenditures in operation of the monitoring system	
4-2 Systemize execution of the re-investigation study periodically.			