



# **Action plan on promotion of African rice development for sub-Saharan Africa country**

**Project Title:-**Das, Dire, Yabalo and Dubuluk woredas irrigation development for Food self  
sufficiency

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# *Das, Dire, Yabelo and Dubuluk woredas Irrigation development for Food self sufficiency*



**Name of executive Agency:** - Ministry of Agriculture and livestock

## **Project Components**

- 1)Development of effective different Small Scale Irrigation Schemes*
- 2)Capacity Building for Expertise and Farmers*
- 3)Preparing Market Plan*

**Number of Beneficiary:** - 90,000 households

**Duration of the Project:** - 5 years

**Total Budget:** - 12 million USD

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# 1. Introduction

## 1.1. Back Ground and Purpose

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Water is a crucial entry point for transforming livelihood and other development activities throughout the entire history of human civilization.

Variability of the rainfall distribution and its intensity has been resulted in incidences of recurrent droughts, which in turn has affected the livelihood of the people, mainly in terms of potable water supply, crop production, and drinking water supply for livestock.

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Oromia Region has 122 drought affected woredas that reason for unsecured food self sufficiency.

Borana zone of Das, Dire, Yaballo and Dubuluk districts (Woredas) extremely drought prone affected woredas.

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No.	District Name	House Holds(no.)	Areas of district(km <sup>2</sup> )
1	Das	28,100	3,183.22
2	Dire	20,317	2,727.06
3	Yaballo	27,888	2,659.89
4	Dubuluk	25,434	2,332.98
<b>Total</b>		<b>101,739</b>	<b>10,903.15</b>

## 2. Current Status and Issues

### 2.1. Location

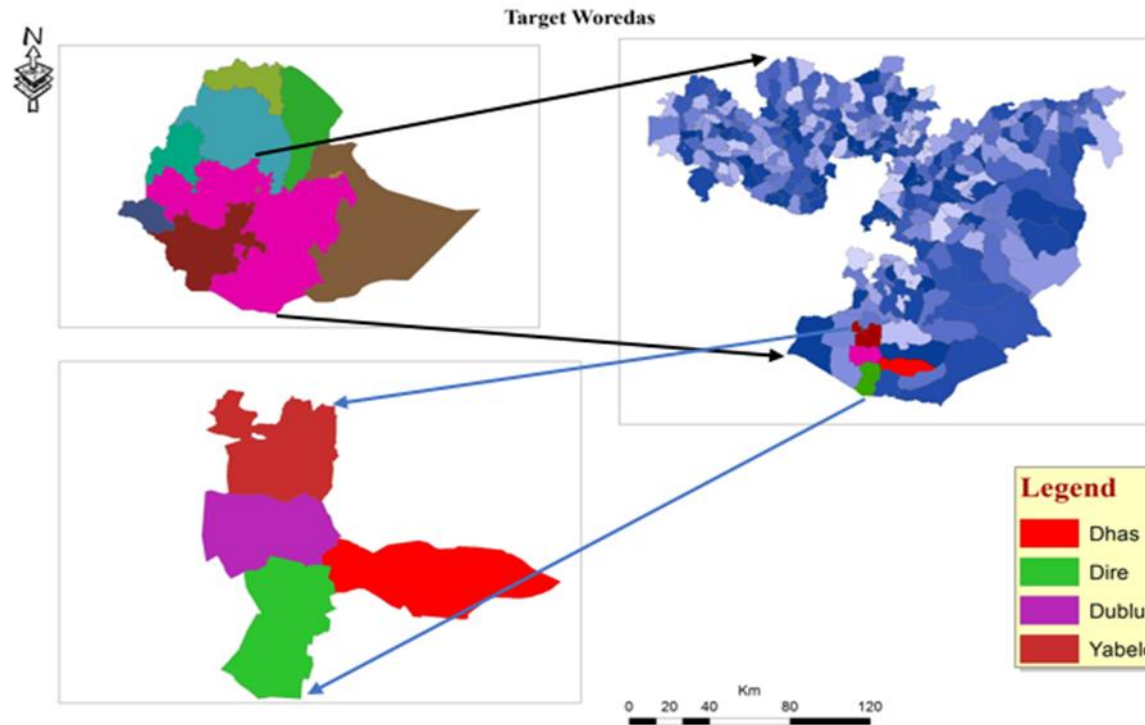


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The target woredas is located in Ethiopia, Oromia Region, Borena Zones Das, Dire, Dubuluk and Yaballo woredas where population has unsecured food self-sufficiency.

It is particularly located in Zone 37 of the Northern Hemisphere, bounded by 282809E-448589E longitude and 398444N-570438N latitude.

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## 2. Current Status

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The region has four basic agro-ecologic regimes namely, humid, sub-tropical humid, semi-arid and arid. Which is good for cereal crops production

The target woredas are mainly included in the semi-arid and arid agro-ecologic regime.

In this target woredas there is no access to water.



She said no access to water at Das Woreda



## Community Participation at Dubuluk Woreda



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Because of no other option for community of target area except to create the access to water and this gets to enforce the policies.

The level of vulnerability to drought was high. So, we select the topic explained above.

## 2.3. Local resource availability

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- Abundant River water resource availability (Above ground and Under ground water)
- Availability of labor resource
- Availability of land resource
- Availability of construction material such as sand, Stone&etc



# Community pond at Yaballo district

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# Ground Water at Dire district

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# Development needs in the Target Community

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Income generation

Infrastructure for irrigation and accessibility

Inputs for crop production and Animals raring

Market and market accessibility

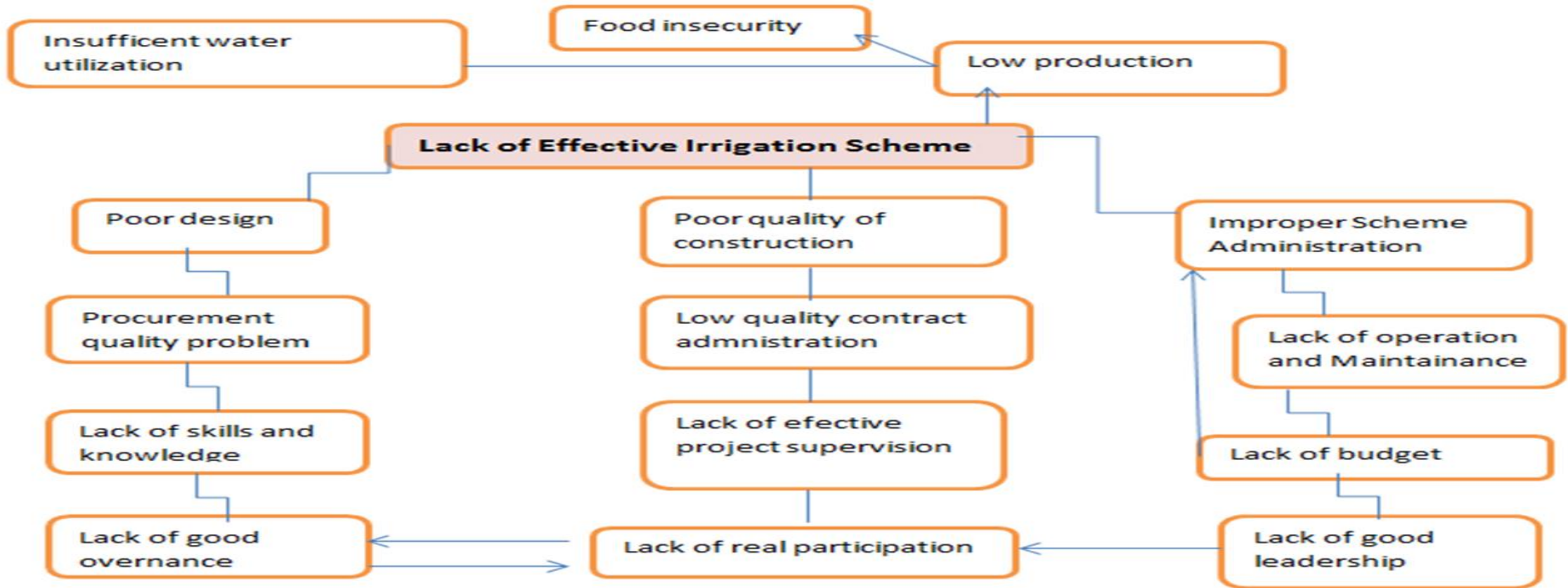
Technologies

The access to water



# 3. Action Plan

## 3.1. Problem Tree



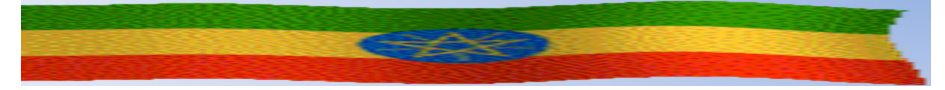
action

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**Action**

# 4.2. Budget Break down



No.	Description of Activities	Estimated Costs(USD)					
		Estimated Costs(USD)	2019	2020	2021	2022	total cost
1	Study and Designing of different irrigation Schemes	400,000.00	400,000.00	400,000.00	400,000.00	400,000.00	2,000,000.00
2	Construction of Irrigation Infrastructures	80,000.00	80,000.00	80,000.00	8,000,000.00	80,000.00	8,320,000.00
3	Establishing of WUA	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	50,000.00
4	Preparing Trainings Documents	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	250,000.00
5	Expert Training	80,000.00	80,000.00	80,000.00	80,000.00	80,000.00	400,000.00
6	Farmers Training	70,000.00	70,000.00	70,000.00	70,000.00	70,000.00	350,000.00
7	Preparing market plan	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	100,000.00
8	preparing Market Shed	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	2,500,000.00
9	Market promotion	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	150,000.00
<b>Total Cost</b>		<b>1,240,000.00</b>	<b>1,240,000.00</b>	<b>1,240,000.00</b>	<b>9,160,000.00</b>	<b>1,240,000.00</b>	<b>14,120,000.00</b>

# 5. Expected Results

## 5.1. Economic Effects

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The target Woredas farmers to continuously produce rice and other cereal crops and vegetable as well as Fodder for livestock, which help them in ensuring food security and income generation.

The irrigation infrastructure were implemented to increase productivity

After this action plan will be implemented 90,000 households will come out from severe drought and ensures food self-sufficiency.

Livestock Production may be increased and sustainable development will be continued

# Technical effects



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Facility access to water will be created

The Ground Water recharge will be increased

Trained Expertise will be created

Good market chain will be developed

Soil fertility may be improved



## 5.3. Social and Environmental Effects

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By creating multi purpose use of schemes the farmers life standard of 90,000 house hold will be changed.

The woman's and youth time for fetching water will be saved and this enable school attendance of young people which is crucial to produce competent citizen.

When the land irrigated the environmental climate may be more suitable than the dry one.

By recharging the ground water that may taken as one priority use for farmer at long term

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By recharging the ground water that may taken as one priority use for farmer at long term.

# HORAA BULAA!!!!

## Hargatho gozayimas











Thank you  
Hargatho gothayimas

## Action Plan to improve Planning, Development, Operation and Management of Rice Production Infrastructure

**Country Name: The federal Democratic Republic of Ethiopia**

<b>Issue in Rice Production Infrastructure (No. 1 Irrigation Schemes building)</b>				
<b>Objective 1 (Solutions to address the issue) : To strengthen the Government capacity in building of irrigation facilities</b>				
<b>Expected Results</b>	<b>Actions</b>	<b>Timeline/ Deadline (If applicable)</b>	<b>Responsibility</b>	<b>Budget and Sources (if applicable)</b>
1.1 Institutional and legal Framework for building irrigation facilities is improved  <b>Framework for;</b> - Monitoring of irrigation facilities, - Supervision of building - Provision of advisory services to relevant stakeholders, - Provision of capacity development	1.1.1 Form a taskforce to take on the designing of improved institutional and legal framework	By February 2018	MoAL, Regional Irrigation Dept., in collaboration with other stakeholders such as Planning and other Depts.,	N/A
	1.1.2 Collect information on the current new building of irrigation	By December 2018	The taskforce	USD 50,000 from the Government budget/ DPs
	1.1.3 Collect information on the institutional and legal framework form other countries	By November 2018	The taskforce	USD 55,000 from FAO support
	1.1.4 Review and analyze the current institutional and legal framework of the country in comparison with those from other countries	By December 2018	The taskforce	N/A
	1.1.5 Based on the above analysis, draft the improved institutional and legal framework for new building of irrigation facilities	By November 2018	The taskforce	USD 2,000 from JICA support
	1.1.6 Share the draft design to obtain comments from specialists and	January 2019	The taskforce in collaboration with concerned stakeholders	N/A

program for relevant stakeholders	relevant stakeholders for improvement			
	1.1.7 Incorporation and finalization of the design for improved institutional and legal framework	January 2019	The taskforce	N/A
	1.1.8 Obtain the Government approval	January 2019	MOAL and MOWE	N/A
1.2 A comprehensive plan for design and new construction of irrigation facilities is developed  The Plan covers only newly constructing of Dams, Headworks and main canals of large-scale irrigation schemes)	1.2.1 Form a taskforce to take on this task	By January 2019	Irrigation Dept., MoAl in collaboration with other stakeholders such as Planning and other Depts., MoAl, Ministry of Water and electricity, other Government organizations, and experts	N/A
	1.2.2 Design the framework of plan (e.g. Scope, target facilities, timeframe)	By February 2019	The taskforce	USD 50,000 from the Government budget
	1.2.3 Identify the region studies that are required to develop the newly irrigation infrastructure is needed	By February 2019	The taskforce	USD 30,000 from the Government budget
	1.2.4 Prepare the TOR and necessary documents to procure contractors who conduct necessary studies	By February 2019	The taskforce	N/A
	1.2.5 Procure of contractors through respective procurement rules and procedures	By February 2019	Dept. in charge of procurement., MoAL	N/A
	1.2.6 Conduct studies	Starting from April 2019	Contractors	USD 100,000 from the AfDB project
	1.2.7 Draft the Plan, based on the result of the studies	By June 2019	Contractors and the taskforce	N/A (Included in the above activity 1.2.6)
	1.2.8 Share the draft Plan to obtain comments from specialists	July 2019	The taskforce in collaboration with concerned stakeholders	N/A

	1.2.9 Incorporation and finalization of the Plan	By the end of July 2019	The taskforce	N/A
1.3 Necessary financial resources are mobilized	1.3.1 Include the necessary cost in the annual government budget to support improved institutional framework and implementation of the Plan new build of irrigation infrastructure	For the next fiscal year	Irrigation Dept., MoAL,	From Gov. annual budget and donors USD 500,000
	1.3.2 Advocacy for internal resource mobilization	Immediately	MoAL, Irrigation Dept. Planning Dept.,	N/A
	1.3.3 Mobilize external financial resources	Immediately	MOAL, Dept. Planning Dept.,	N/A
<b>Objective 2 (Solutions to address the issue) : To improve the operation and management of irrigation facilities by WUA</b>				
<b>Expected Results</b>	<b>Actions</b>	<b>Timeline/ Deadline (If applicable)</b>	<b>Responsibility</b>	<b>Budget and Sources (if applicable)</b>
2.1 Technical capacity of WUA strengthened in operation and management of irrigation facilities	2.1.1 Conduct the needs survey to identify the technical gaps of WUAs in operation and management of irrigation facilities	Starting in October 2018	Irrigation Dept., MoA in collaboration with decentralized structure of MoA	USD 50,000 from WB project
	2.1.2 design capacity development programs	By April 2019	Irrigation Dept., MoAL	USD 150,000 from donors project
	2.1.3 Provide logistics	April 2019	Irrigation Dept., MoAL	USD 700,000 (the amount to be determined as a result of the above activity 2.1.2) from the WB project

	2.1.4 Conduct capacity development programs	April – October 2019	Irrigation Dept., MoAL in collaboration with decentralized structure of MoA	USD XXX (the amount to be determined as a result of the above activity 2.1.2) from the WB project
	2.1.5 Based on the result of the above activity 2.1.1., prepare technical manuals for the proper operation and management manuals for WUA	April 2019	Irrigation Dept., MoAL	N/A
	2.1.6 Print and distribute the technical manuals developed by the above activities 2.1.5. to respective WUA	April-October 2019	Irrigation Dept., MoAL in collaboration with decentralized structure of MoAL	USD 50,000 from the donors
2.2 Organizational capacity of WUA strengthened	2.2.1 Conduct the needs survey to identify organizational challenges and issues of WUAs	Starting in January 2019	Irrigation Dept., MoAL in collaboration with decentralized structure of MoAL	USD 100,000 from the donors
	2.2.2 Strengthening the capacity of farmers union	Starting from May 2019		
	2.2.3 Based on the result of the above activity 2.2.1., design capacity development programs	By June 2019	Irrigation Dept., MoAL	USD 140,000 from the donors
	2.2.4 Provide logistics (e.g. preparation of training materials, mobilization of trainers/facilities)	July 2019	Irrigation Dept., MoA	USD 250,000 from donors
	2.2.5 Conduct capacity development programs according to the program design based on the above activity 2.2.2	February- October 2019	Irrigation Dept., MoA in collaboration with decentralized structure of MoA	USD 530,000 from different stalk holders and donors

2.3 Awareness created on cares of irrigation facilities, among water users, local communities and other relevant stakeholders	2.3.1 Conduct a survey to identify information and awareness gaps in cares of irrigation facilities among relevant stakeholders	Starting in September, 2018	Irrigation Dept., MoA in collaboration with decentralized structure of MoA	USD 120,000
	2.3.2 Based on the results of the needs survey, prepare and distribute brochures and/or other printed material for the dissemination of information and/or awareness creation on the importance of proper cares of irrigation facilities	January – April 2019	Irrigation Dept.,	USD 10,000 from the AGP
2.4 Conflicts over water and the use of irrigation facilities is resolved (Provision of mediation and advisory services in)	2.4.1 Conduct a survey to WUAs to identify conflicts over the use of water and/or irrigation facilities	Starting in October 2018	Irrigation Dept., MoA in collaboration with decentralized structure of MoA	N/A (included in the budget for the activity 2.1.1)
	2.4.2 Based on the result of the survey conducted by the above activity 2.4.1, provide mediation and advisory services to relevant stakeholders.	From April 2019 on	Irrigation Dept., MoA in collaboration with decentralized structure of MoA	the Government regular budget
	2.4.3 Communicate and involve relevant stakeholders such as traditional authorities, local government authority, and representative of involved stakeholders among others, in the process of conflict resolution.	From April 2019 on	Irrigation Dept., MoA in collaboration with decentralized structure of MoA	the Government regular budget
	2.4.4 Monitor the process and implementation of agreed measures for conflict resolution by respective stakeholders.	From April 2019 on	Irrigation Dept., MoA in collaboration with decentralized structure of MoA	the Government regular budget



<b>Issue in Rice Production Infrastructure (No. 2):</b> Conflict over water use among different industries				
<b>Objective 1 (Solutions to address the issue) :</b> To formulate a Master Plan for Water Resource Development				
<b>Expected Results</b>	<b>Actions</b>	<b>Timeline/ Deadline (If applicable)</b>	<b>Responsibility</b>	<b>Budget and Source s (if applica ble)</b>
1. The framework of master Plan and its formulation process is developed	1.1 Form a taskforce to take on this task	July 2018	Irrigation Dept., MoA, in collaboration with other stakeholders such as Planning and other Depts., MoAL, MoWE other government organizations, and experts	Regular budget
	1.2 Draft the formulation process of the Master Plan	July 2018	The Task force	USD 2,000 from AGP
	1.3 Draft the framework of master plan (e.g. Scope, target areas, target facilities, priorities, Policies for Development and O&M of facilities that govern the Master Plan, etc.)	August 2018	The Task force	N/A (included in the above activities)
	1.4 Finalize the framework and formulation procedures for the Master plan	August 2018	The Task force	

2. Necessary studies are conducted  Designing the necessary Studies (TOR for consultants, Questionnaires, survey, items to research, for newly Constructed SSI	2.1 Identify and design surveys and studies required for information collection, analysis and drafting of the Master Plan	September 2018	The Task force	USD 2,000 from AGP
	2.2 Prepare the TOR and other necessary documents to procure contractors who conduct survey and studies	September 2018	The Task force	included in the above activities
	2.3 Procure of contractors through respective procurement rules and procedures	By the end of 2018	Dept. in charge of procurement., MoAL	N/A
	2.4 Conduct the survey and studies of areas of newly Irrigation scheme constructed	Starting January 2019	Contractors	USD 800,000 from the funding sources
	2.5 Prepare the draft Master Plan, based on the result of the survey and procedures conducted at the above activity 2.4	By September 2019	Contractors	N/A (included in the above activity)
3. Fund mobilization for the formulation of Master Plan	3.1 Include the necessary cost in the annual government budget to support the formulation of Master Plan	Immediately	Irrigation Dept., MoA,	From FAO, JICA, EThio-Rice
	3.2 Advocacy for internal resource mobilization	Immediately	Minister for Agriculture Irrigation Dept., Planning Dept., MoA,	

4. Master Plan approved	4.1 Share the draft Master Plan to obtain comments from specialists and relevant stakeholders for improvement	September 2019	Contractors in collaboration with the taskforce	
	4.2 Incorporation and finalization of the draft Master Plan	September 2019	Contractors	N/A (included in the budget for above activity 2.4)
	4.3 Acquire the Government approval	By the end of 2019	Minister for Agriculture, Minister for Water	N/A