

SCOPE OF WORK
FOR
THE STUDY
ON
INTEGRATED FLOOD MANAGEMENT FOR NYANDO RIVER BASIN
IN
IN THE REPUBLIC OF KENYA
AGREED UPON BETWEEN
MINISTRY OF WATER AND IRRIGATION
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

Nairobi, October 21, 2005



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I. INTRODUCTION

In response to the official request of the Government of the Republic of Kenya, the Government of Japan decided to conduct the Study on the Integrated Flood Management for Nyando River Basin in the Republic of Kenya (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the Government of Kenya.

The present document sets forth the Scope of Work with regard to the Study and will be valid after notification of approval by JICA to the Government of Kenya.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are:

- (1) to formulate an integrated flood management plan for the Nyando river basin covering (a) the review of existing flood control plans, and (b) community-based activities;
- (2) to support communities to strengthen capacities in flood management; and
- (3) to develop the flood management capacity for concerned institutions

III. STUDY AREA

The Study will cover the Nyando river basin in Kenya. The Study Area is as shown in Appendix 1.

IV. SCOPE OF THE STUDY

In order to achieve the objectives mentioned above, the Scope of Work for the Study shall cover the following items:

<Phase I: Integrated flood management planning for Nyando River Basin>

- (1) Collection, review, and analysis of related data and information on;
 - a. social, and economic conditions of communities
 - b. natural conditions (land use, topography, meteorology, hydrology, and geology)
 - c. situation of water use, water quality, and forestry
 - d. maps, aerial photographs, and satellite images
 - e. laws, regulations, and policies on water resource management, and flood management

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- f. implementing agency of flood management and its function and capacity
 - g. record of past floods and other disasters
 - h. on-going plan of flood management projects
 - i. existing river facilities
 - j. community's coping mechanisms against floods
 - k. resources and capital of communities
- (2) Review of existing flood management plans
- a. flood mitigation plan
 - b. structural measures
 - c. non-structural measures
 - d. hazard maps based on flood records
 - e. soil conservation
 - f. construction plan and cost estimation
- (3) Formulation of flood management master plan including investment plan
- (4) Prioritization of projects and communities
- (5) Formulation of community-based flood management plan (CBFMP) through participatory approach in prioritized communities based on;
- a. socio-economic activities
 - b. participatory hazard mapping
 - c. early warning
 - d. evacuation
 - e. flood fighting
 - f. response
 - g. public awareness
 - h. school based flood disaster education
 - i. capacity development
 - j. drills
 - k. gender and crosscutting issues
 - l. pilot projects
- (6) Preparation of pilot projects
- (7) Formulation of implementation plan and schedule
- (8) Support for Initial Environmental Examination(IEE) by Government of Kenya
- (9) Development of manuals and guidelines for monitoring, planning, facilities, and operation and maintenance for flood management; and training programs for related organizations' staff
- (10) Recommendation of suitable institutional framework for flood management linking national level to community support
- (11) Implementation of workshops as appropriate for the Study

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(12) Provision of technical advice on on-going projects on a day-to-day basis

<Phase II: Feasibility Study of prioritized projects, support for activities of CBFMP, and implementation of capacity building programs >

- (1) Additional data collection and survey
- (2) Support for environment impact assessment(EIA) by Government of Kenya
- (3) Design of prioritized projects covering;
 - a. preliminary design of facilities
 - b. community participation framework
 - c. operation and maintenance plan
 - d. cost estimation and implementation plan
- (4) Support for implementation of prioritized activities of CBFMP
- (5) Implementation of pilot projects
- (6) Project formulation based on outcome of pilot projects
- (7) Implementation of capacity building programs for concerned organizations' staff
- (8) Implementation of workshops as appropriate for the Study
- (9) Provision of technical advice on on-going projects on a day-to-day basis

V. SCHEDULE OF THE STUDY

The Study will be carried out in accordance with the tentative schedule as attached in Appendix 2. The schedule is tentative and subject to modification by mutual agreement between both parties if such necessity should arise during the course of the Study.

VI. REPORTS

JICA shall prepare in English and submit the following reports to the Government of Kenya.

1. Inception Report: Forty (40) copies
2. Progress Report: Forty (40) copies
3. Interim Report: Forty (40) copies
4. Draft Final Report: Forty (40) copies
5. Final Report: Forty (40) copies

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VII. UNDERTAKINGS OF THE GOVERNMENT OF KENYA

In accordance with the "Agreement on Technical Cooperation between the Government of Japan and the Government of the Republic of Kenya", signed in Nairobi on April 29th, 2004, both sides confirmed the following points as responsibilities of the Kenyan side:

1. To facilitate the smooth implementation of the Study, the Government of Kenya will take the following measures:

- (1) to secure the safety of the Japanese study team (hereinafter referred to as "the Team"),
- (2) to permit the members of the Team to enter, leave and sojourn in Kenya for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees according to laws and regulations of Kenya,
- (3) to exempt the members of the Team from taxes, duties, fees and any other charges on equipment, machinery and other materials brought into Kenya for the conduct of the Study according to laws and regulations of Kenya,
- (4) to exempt the members of the Team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Team for their services in connection with the implementation of the Study according to laws and regulations of Kenya,
- (5) to provide necessary facilities to the Team for remittance as well as utilization of the funds introduced into Kenya from Japan in connection with the implementation of the Study,
- (6) to secure permission for the Team to enter into private properties or restricted areas for the implementation of the Study,
- (7) to secure permission for the Team to take one copy of all the data and documents (including photographs and maps) related to the Study out of Kenya to Japan, and
- (8) to facilitate access to medical services as needed.

2. The Government of Kenya shall bear claims, if any arises, against the members of the Study team resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Team.




3. The Ministry of Water and Irrigation (hereinafter referred to as "MWI") shall act as the responsible agency and also as the coordinating body in relation with other governmental and non-governmental organizations for the smooth implementation of the Study.
4. The Government of Kenya shall, at its own expense, provide the Study team with the following, in cooperation with other organizations concerned:
 - (1) available data and information related to the Study,
 - (2) counterpart personnel,
 - (3) suitable office space with necessary equipment, and
 - (4) credentials or identification cards.

VIII. UNDERTAKINGS OF JICA

For the implementation of the Study, JICA shall take the following measures:

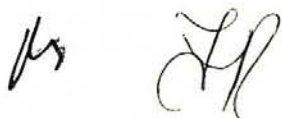
1. to dispatch, at its own expense, study teams to Kenya, and
2. to pursue technology transfer to counterpart personnel in the course of the Study.

IX. CONSULTATION

JICA and MWI shall consult with each other in respect of any matters that may arise from or in connection with the Study.

X. APPENDICES

Appendix 1: Study Area
Appendix 2: Study Schedule

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