

Nairobi, June 22, 1993

Mr. B. T. C. Bargarora
General Manager,
National Irrigation Board
Ministry of Land Reclamation,
Regional and Water Development

Dear Sir,

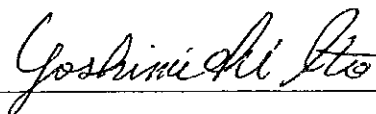
The Japanese Technical Guidance Team, organized by the Japan International Cooperation Agency, visited the Republic of Kenya from June 15 to 24, 1993.

It is our pleasure to submit herewith the summary report on the Japanese technical cooperation for the Mwea Irrigation Agricultural Development Project.

During its stay in the Republic of Kenya, the Technical Guidance Team had a series of discussions with the authorities concerned of the Government of Kenya and the Japanese expert team in respect of the desirable implementation of the technical cooperation.

On behalf of the Technical Guidance Team, I would like to express my sincere appreciation for the heart warming cooperation and kindful arrangement extended to us.

Very truly, yours,



Yoshimichi Ito
Leader,
The Japanese Technical Guidance
Team,
Japan International Cooperation
Agency

Members List of the Japanese Technical Guidance Team

- (1) Yoshimichi ITO (Team Leader)
Deputy Director, Construction Department, Tokai Regional Agricultural Administration Office, Ministry of Agriculture, Forestry, and Fisheries (MAFF)
- (2) Hidehito SAKUI (Rice Cultivation / Agricultural Machinery)
Chief of Training Section, Extension and Education Division, Agricultural Production Bureau, MAFF
- (3) Yoichi KAKITA (Water Management / Irrigation and Drainage)
Section Chief, Overseas Land Improvement Cooperation Office, Design Division, Construction Department, Agricultural Structure Improvement Bureau, MAFF
- (4) Naoto HATTORI (Coordinator)
Staff, Agricultural Technical Cooperation Division, Agricultural Development Cooperation Department, Japan International Cooperation Agency (JICA)

SUMMARY REPORT
ON
THE JAPANESE TECHNICAL COOPERATION
FOR
THE MWEA IRRIGATION AGRICULTURAL DEVELOPMENT PROJECT

1. Introduction

The Mwea Irrigation Agricultural Development Project (hereinafter referred to as "the Project") has been implemented to develop appropriate techniques for irrigated rice cultivation, and transfer these techniques mainly to the staff of NIB and participating farmers. The technical cooperation of the Project started on February 1, 1991 based on the Record of Discussions (R/D) signed on November 27, 1990. In addition, the Tentative Schedule of Implementation (TSI) had been formulated on November 19, 1991.

At the third year of the technical cooperation period, the Japan International Cooperation Agency (hereinafter referred to as "JICA") has organized the Japanese Technical Guidance Team (hereinafter referred to as "the Team") in order to contribute to the smooth implementation of the technical cooperation.

The Team carried out the followings through discussions with the authorities concerned of the Government of Kenya and the Japanese expert team.

- (1) reviewing overall project schedule and grasping the progress of the technical cooperation activities,
- (2) consulting to solve the problems on the implementation of the Project,
- (3) giving the technical guidance for smooth implementation of the Project,
- (4) consulting to make future plans.

The purpose of this report is to summarize the results of the activities made by the Team and inform it.

2. Present Situation and Comments

The Project activities have been carried out quite well with so many efforts of Kenyan side and Japanese experts. Kenyan side has allocated appropriate number of suitably qualified personnel to the Project. And the maintenance of equipment donated by Japan is quite satisfactory.

(1) Water Management

Present Situation

Meteorological observation and the investigation for unit water requirement in the paddy field have been carried out. Necessary data are being collected.

Comments

Sufficient amount of water was secured by the cannal system constructed by Japanese grant aid cooperation. However, water distribution management is not carried out appropriately because of defect of the facilities for water distribution. And it looks that water management organization is not working effectively at present. So the training for the water guards is very important to improve their techniques for water management.

(2) Irrigation and Drainage

Present Situation

There was no appropriate registration system of irrigation and drainage facilities in the Mwea Irrigation Settlement Scheme (MIS). So the investigation for the facilities was carried out in the first place, and collected data are being arranged into a registration book.

Comments

It is necessary to maintain the registration system of irrigation and drainage facilities. And the system would be the basis to make a guideline for maintenance and management in the future.

(3) Rice Cultivation

Present Situation

Three potential rice varieties have been selected for high yielding, and one for double cropping. Various methods are being investigated toward improving the physical structure of soil. Regarding to development of double cropping technique, mechanism of cold injury is being analyzed.

Comments

Concerning double cropping variety, it is necessary to study variety discriptions through yield performance test. With regard to aromatic variety, it is difficult to select an appropriate variety through existing selection method. Therefore, it is advisable to practice pure line selection method from existing varieties.

(4) Agricultural Machinery

Present Situation

From the viewpoints of operation and durability, it became clear that dry land plowing method has more advantages, compared with the wet cultivation system. In addition, cultivation of green manure crops and fertilization of compost manure made of rice straw have been experimented in order to improve the physical structure of soil and to make tractor operation more efficient. Operation and maintenance skills of the Project's operators have made a remarkable progress, while those skills of MIS operators and mechanics are being improved.

Comments

Dry land plowing method is expected to give impact to MIS.

(5) Training

Present Situation

13 training courses were conducted and 328 trainees were trained in Japanese fiscal year 1992. The Syllabus Committee was established in May, 1993, and basic principle of training was determined. Verification trial farm has been prepared as a training plot. A trainees' dormitory is now under construction.

Comments

The Team recognizes the budgetary shortage that NIB has pointed out, and therefore, there will be need to allocate additional fund to complete the dormitory.

3. Future Plans

(1) Water Management

An appropriate water management technique will be developed. For that purpose, a guideline for water distribution will be formulated in a model area.

(2) Irrigation and Drainage

A guideline for maintenance and management of irrigation and drainage facilities will be formulated. Appropriate techniques to improve irrigation and drainage facilities on farm level such as land leveling, tractor passage, farm road etc., will be proposed.

(3) Rice Cultivation

Rice cultivation techniques will be improved for selected varieties.

(4) Agricultural Machinery

Adaptability of dry land plowing method will be verified in pilot farm.

(5) Training

Teaching materials such as textbooks, videos, and training plots will be upgraded.

4. Recommendation and request

The Team recommends and requests the followings in order to improve the present situation of the Project.

(1) Since Mr. Tamura, coordinator of the Japanese expert team, is in charge of training, his sphere of activities is too wide. In order to solve this problem, the Team recommends that a new full-time coordinator should be dispatched so that Mr. Tamura can concentrate on management of training courses. For that purpose, R/D should be amended to provide for the expert in charge of training and Kenyan side should submit A1 form for a new coordinator.

(2) Allocation of recurrent expenses of the Project is enough so far. The Team requests the Kenyan side to allocate enough budget continuously for the smooth implementation of the Project.

附属資料 18. 合同委員会ミニッツ

MINUTES OF THE JOINT COMMITTEE MEETING FOR MWEA IRRIGATION
AGRICULTURAL DEVELOPMENT PROJECT (MIAD), HELD AT NIB HEAD
OFFICE ON 22ND JUNE, 1993

LIST OF PARTICIPANTS:

<u>NAME</u>	<u>POSITION AND ORGANIZATION</u>
a) Japanese Side	
Y. Ito	- JICA Mission Leader
N. Hattori	- JICA Mission Cordinator
H. Sakui	- JICA Mission Member
Y. Kakita	- JICA Mission Member
K. Sakai	- Embassy of Japan
T. Nagashima	- JICA, Kenya Office
T. Ito	- JICA, Kenya Office
S. Murao	- MIAD - Team Leader
M. Tamura	- MIAD - Co-ordinator & Training Expert
Y. Ozawa	- MIAD - Expert
A. Yoshida	- MIAD - Expert
S. Tanaka	- MIAD - Expert
b) Kenyan Side	
B.T.C. Bargoria	- General Manager, NIB
F.T. Kimemia	- Representing PS, Ministry of Land Reclamation, Regional & Water Dev.
S. M. Gitonga	- Assistant General Manager, NIB
E. Cheserem	- Engineering Services Manager, NIB
I.J.O. Ogombe	- Chief Agricultural Officer, NIB
S.N. Mwaniki	- Chief Accountant, NIB
Z. Kioko (miss)	- Personnel Officer, NIB
A.A. Mohdhar	- Senior Scheme Manager, MIS
M. Agot	- Officer-in-Charge, MIAD

MIN 1/93 - INTRODUCTORY REMARKS

The General Manager, National Irrigation Board, Mr. B.T.C. Bargoria welcomed all the participants to the meeting. He passed the apology of the representative of the Ministry of Finance who could not attend the meeting since he was in another meeting with the Japanese OECF Mission at the Treasury.

MIN 2/93 - REPORT ON MIAD PROJECT ACTIVITIES

Mr. M. Agot the Officer-in-Charge, MIAD reported on the activities carried out at MIAD since its inception on 1st February, 1991 upto date. He also reported on the activities to be carried out during the remaining project period. Mr. Agot gave highlights of the activities carried out by each of the five sections of the project i.e. Rice Cultivation, Water Management, Irrigation and Drainage, Machinery and Training Sections as contained in the project report attached.

The Team Leader of MIAD Project, Mr. S. Murao emphasised that it should be noted that during the Technical co-operation period of five years, the Japanese experts will carry out technology transfer to the Kenyan counterpart staff as per the T.S.I. He stressed that the Kenyan side should start early preparations so as to take over and sustain the activities so as to attain the development objectives after the end of Technical Co-operation.

The General Manager, requested that the Parent Ministry of NIB, MLRRWD include in the Forward Budget financial allocation for the project after the end of the Technical

Co-operation as the results to be obtained from these research activities will be beneficial to the whole country.

It was agreed that the technologies and techniques developed at MIAD will be tried out at MIS to prove their practical application in large scale in the scheme.

MIN 3/93 - JICA ADVISORY MISSION

Mr. Y. Ito, the Mission Leader reported to the meeting that the Mission task was to contribute to the smooth implementation of the Technical Co-operation and that the team had carried out its task through discussions with the Kenyan authorities and the Japanese experts.

The Mission according to their report attached is happy that the project was being implemented competently.

But they noted that there is shortfall in funds for the construction of the dormitory at MIAD. The Mission, therefore, recommended that a request for re-allocation of non-project counterpart funds be made by Treasury to be used in completing the remaining works.

The Mission also recommended that the position of a training expert at MIAD be separated from that of the Co-ordinator. Mr. Tamura to be the Training Expert and a new co-ordinator be requested for.

MIN 4/93 - ANY OTHER BUSINESS

The JICA Kenya Office representative, Mr. Nagashima said that JICA was happy with the way the Project was being carried out and the Co-operation between the implementing

agencies and officers. He took the opportunity to introduce Mr. T. Ito from JICA, Kenya Office who is in charge of MIAD Project and also Mr. K. Sakai from the Japanese Embassy.

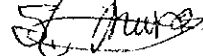
The Chairman closed the meeting by inviting all the participants to an official luncheon hosted by the Board.

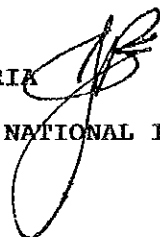
MINUTES PREPARED BY:

I.J.O. OGOMBE  23/6/93
CHIEF AGRICULTURAL OFFICER, NIB

M. TAMURA  23/6/93
MIAD CO-ORDINATOR

MINUTES CONFIRMED BY:

1. MR. S. MURAO 
MIAD JAPANESE TEAM LEADER

2. MR. B.T.C. BARGORIA 
GENERAL MANAGER, NATIONAL IRRIGATION BOARD

JICA

