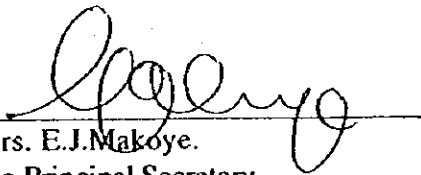


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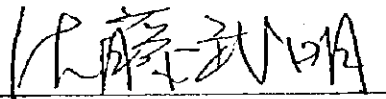
実施細則

SCOPE OF WORK
FOR
THE FEASIBILITY STUDY
ON
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT
IN
THE UNITED REPUBLIC OF TANZANIA
AGREED UPON BETWEEN
MINISTRY OF AGRICULTURE AND COOPERATIVES,
THE UNITED REPUBLIC OF TANZANIA
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

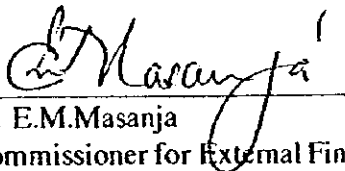
Dar es Salaam, October 31, 1996



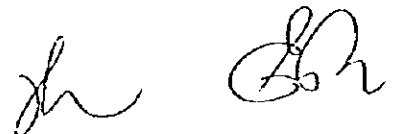
Mrs. E.J. Makoye.
Ag. Principal Secretary,
Ministry of Agriculture and Cooperatives,
The United Republic of Tanzania



Mr. Takeaki Sato
Leader of Preparatory Study Team,
Japan International Cooperation Agency



Mr. E.M. Masanja
Commissioner for External Finance and Debt Management,
Ministry of Finance,
The United Republic of Tanzania



I . INTRODUCTION

In response to the request of the Government of The United Republic of Tanzania(hereinafter referred to as "Tanzania"), The Government of Japan has decided to conduct the Feasibility Study on Lower Moshi Integrated Agriculture and Rural Development Project in Tanzania(hereinafter referred as "the Study") in accordance with the relevant laws and regulations 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 authorities concerned of the Government of Tanzania.

The present document sets forth the Scope of Work with regard to the Study.

II . OBJECTIVES OF THE STUDY

The objectives of the Study are;

- 1.to conduct a feasibility study on an agricultural and rural development of Lower Moshi area in order to formulate the integrated agricultural and rural development project plan including new water resource development plan, and
- 2.to carry out, in the course of the Study, technology transfer to the Tanzanian counterpart personnel concerned.

III . STUDY AREA

The study area is located at southeast of Moshi Municipality in Moshi District,the Kilimanjaro Region.

The Study covers ;

- 1.an area of about 6,000ha,including the existing Lower Moshi Project area of 2,300ha, already expanded area of 1,450ha and potential extension area of 2,250ha.
- 2.an area of expected headworks in the Kikuletwa River and expected diversion channel from the Kikuletwa to the project area.


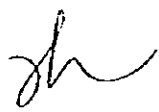

On the course of the Study, the surrounding areas of the project area may be investigated and studied as technically required. (See the location map attached as ANNEX 1)

IV . SCOPE OF THE STUDY

In order to achieve the above mentioned objectives, the Study consists of two(2) phases and will cover the following items.

1.Phase I

- 1.1 Review of existing development plans and projects related to the Study with reference to the National Irrigation Development Plan (hereinafter refers to as "NIDP"), River Basin Management and Small Holder Irrigation Improvement Project, Kilimanjaro Agricultural Development Project (hereinafter refers to as "KADP") and Lower Moshi irrigation development Project.

2   

1.2 Collection and analysis of the following data and information, through the field survey and interviewing the farmers;

(1) Natural conditions

- a) topography
- b) meteorology
- c) hydrology
- d) geology
- e) soil
- f) water quality
- g) others

(2) Socio-economic condition

- a) population, birthrate, food situation, etc
- b) educational level (literacy rate), etc
- c) administrative organizations related to the projects
- d) social infrastructure
- e) regional and other donors' development plan
- f) others

(3) Agricultural and Agro-economic conditions

- a) land use
- b) land tenure
- c) cultivation technique
- d) cropping pattern and yield
- e) trend of supply and demand of rice crop
- f) farmer's economy
- g) needs and mechanism of agricultural credit system
- h) others

(4) Water resources

- a) existing water resources
- b) hydrology for the Kikuletwa river basin

(5) Agricultural and rural infrastructure

- a) irrigation and drainage facilities
- b) farm road networks
- c) post-harvest and marketing facilities
- d) rural water supply system
- e) construction materials
- f) others

(6) Agricultural supporting service

- a) government institutions
- b) farmer's organizations
- c) extension service
(extension worker, farmers' recognition level of irrigation)
- d) supply of seed, fertilizer and chemicals
- e) mechanization
- f) others

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- (7) Operation and maintenance
 - a) water management organizations
 - b) customs of water use, water right, water charge, etc.
 - c) others

(8) Gender aspects

- (9) Environmental aspects
 - a) natural environmental aspects
 - b) social environmental aspects

1.3 Initial Environmental Examination (IEE).

1.4 Identification of basic concept on integrated agricultural and rural development plan in the study area.

1.5 Preparation of topographic map(s) at scale of 1/5,000 for the study area.

2. Phase 2

2.1 Field survey to collect supplementary data and information on the study area .

2.2 Formulation of an optimum integrated agricultural and rural development plan for the study area considering following items;

- (1) Hydrology and meteorology
- (2) Geology
- (3) Soil classification and land use
- (4) Land tenure
- (5) Cropping pattern and yield
- (6) Water resources development and water conveyance plan
- (7) Irrigation and drainage
- (8) Socio-economic and farmers' economy
- (9) Agro-infrastructure
- (10) Rural infrastructure
- (11) Agricultural supporting system
- (12) Environmental conditions
- (13) Operation and maintenance
- (14) Post-harvest and marketing system
- (15) others

2.3 Preliminary design for the major structures

2.4 Formulation of operation and maintenance plans

2.5 Environmental Impact Assessment (EIA)

2.6 Preparation of implementation schedule

2.7 Estimation of the project costs and benefits

2.8 Overall evaluation of the project

2.9 Recommendations



V. STUDY SCHEDULE

The Study will be carried out in accordance with the attached tentative schedule.(ANNEX 2)

VI. REPORTS

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

1.Inception Report

Twenty (20) copies at the commencement of the Phase 1 field work.

2.Progress Report(1)

Twenty (20) copies at the end of the Phase 1 field work.

3.Interim Report

Twenty (20) copies at the end of the Phase 1 home office work.

4.Progress Report(2)

Twenty (20) copies at the end of the Phase 2 field work.

5.Draft Final Report

Thirty (30) copies after the Phase 2 home office work. The Government of Tanzania shall provide its comments in the Draft Final Report to JICA within one (1) month after receiving the Draft Final Report.

6.Final Report

Fifty (50) copies within two (2) months after the receipt of comments on the Draft Final Report.

VII. UNDERTAKING OF THE GOVERNMENT OF TANZANIA

1.To facilitate the smooth conduct of the Study, the Government of Tanzania shall take necessary measures;

- (1)to secure the safety of the Japanese study team,
- (2)to permit the members of the Japanese study team to enter, leave and sojourn in the United Republic of Tanzania for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees,
- (3)to exempt the members of the Japanese study team from taxes, duties, fees and other charges on equipment, machinery and other materials brought into and out of the United Republic of Tanzania for the conduct of the Study,
- (4)to exempt the members of the Japanese study 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 Japanese study team for their services in connection with the implementation of the Study,
- (5)to provide necessary facilities to the Japanese study team for remittance as well as utilization of the funds introduced into the United Republic of Tanzania from Japan in connection with the implementation of the Study,



- (6) to secure permission for entry into private properties or restricted areas for the implementation of the Study,
- (7) to secure permission for the Japanese study team to take necessary data and documents (including photographs and maps) related to the Study out of the United Republic of Tanzania to Japan, and
- (8) to provide medical services as needed. Its expenses will be chargeable to members of the Japanese study team.

2. The Government of Tanzania shall bear claims, if any arises, against the members of the Japanese study team resulting from , occurring in the courses 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 Japanese study team.

3. Ministry of Agriculture and Cooperatives (hereinafter refers to as "MAC") in collaboration with the Kilimanjaro authorities shall act as a counterpart executing agency to the Japanese study team and also a coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

4. MAC shall, at its own expense, provide the Japanese study team with the following, in cooperation with other organizations concerned:

- (1) available maps, data and information (hydrological and meteorological etc.) related to the Study,
- (2) counterpart group including a project coordinator responsible for the Study and resolving any trouble arising throughout the Study period,
- (3) logistic support including office space with appurtenant furniture and cleaning and guard services in Dar es Salaam and Moshi, and
- (4) credentials or identification cards.

VIII. UNDERTAKING OF JICA

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

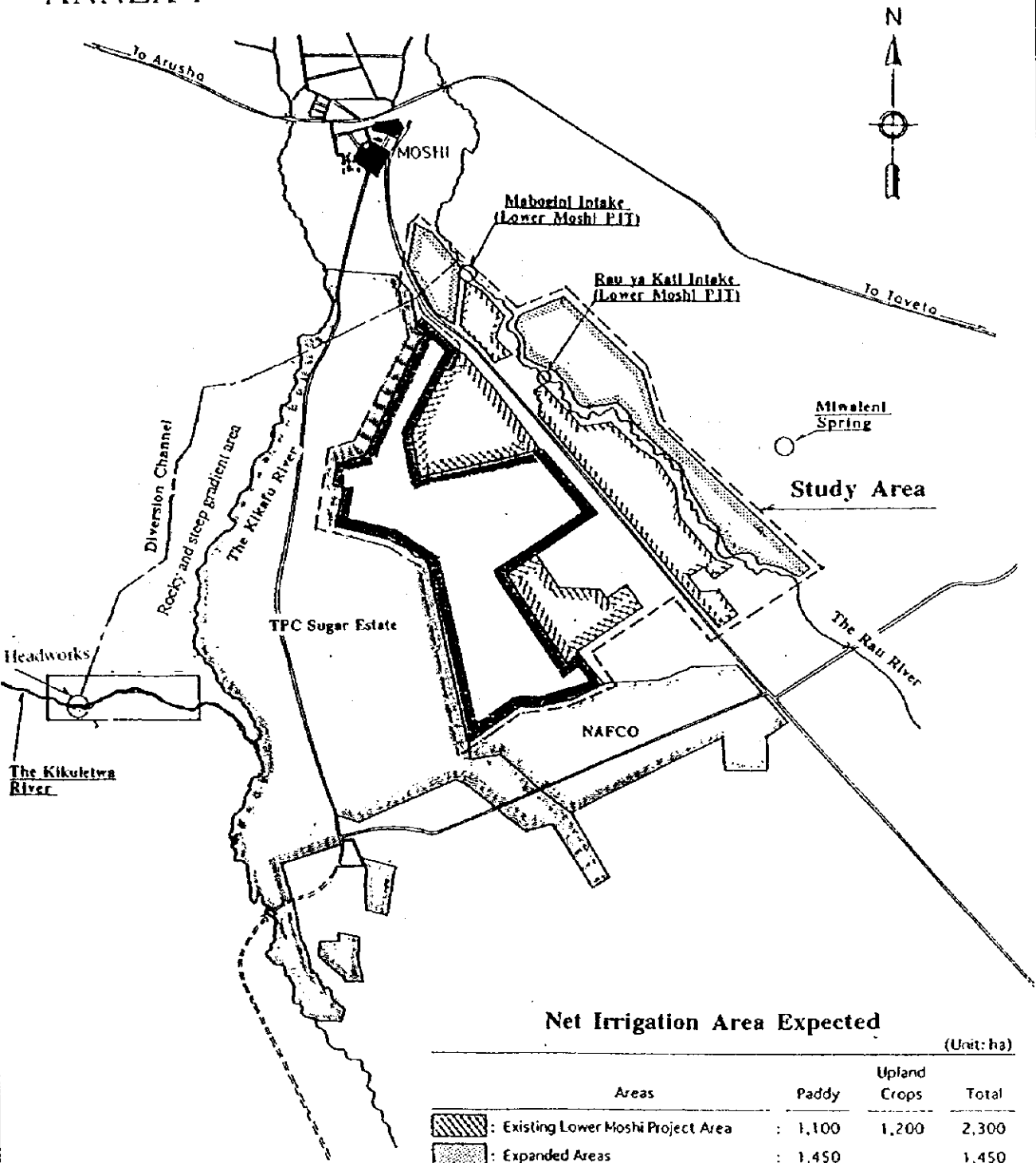
- (1) to dispatch at its own expense, the study team to the United Republic of Tanzania,
- (2) to pursue technology transfer to the Tanzanian counterpart personnel in the course of the Study.

IX. CONSULTATION

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






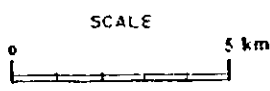
ANNEX 1



Net Irrigation Area Expected

(Unit: ha)

Areas	Paddy	Upland Crops	Total
 Existing Lower Moshi Project Area	1,100	1,200	2,300
 Expanded Areas	1,450		1,450
 New Extension Areas (Potential)	950	1,300	2,250
Total Area	3,500	2,500	6,000



STUDY AREA

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ANNEX 2

TENTATIVE WORK SCHEDULE

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Work in Tanzania																	
Home office work in Japan																	
Mapping																	
Submission of reports	△ Ic/R			△ P/R(1)		△ It/R					△ P/R(2)		△ DU/R				△ F/R

(Remarks)

- Ic/R : Inception Report
- P/R(1) : Progress Report(1)
- It/R : Interim Report
- P/R(2) : Progress Report(2)
- Df/R : Draft Final Report
- F/R : Final Report
- ◎ : Comments on DF/R by the Tanzania side


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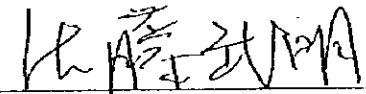
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MINUTES OF MEETING
ON
SCOPE OF WORK
FOR
THE FEASIBILITY STUDY
ON
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT
IN
THE UNITED REPUBLIC OF TANZANIA
AGREED UPON BETWEEN
MINISTRY OF AGRICULTURE AND COOPERATIVES,
THE UNITED REPUBLIC OF TANZANIA
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

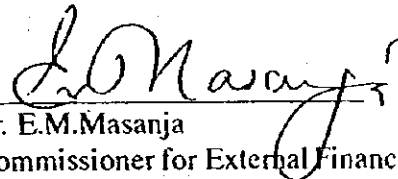
Dar es Salaam, October 31, 1996



Mrs. E.J. Makoye
Ag. Principal Secretary,
Ministry of Agriculture and Cooperatives,
The United Republic of Tanzania



Mr. Takeaki Sato
Leader of Preparatory Study Team,
Japan International Cooperation Agency



Mr. E.M. Masanja
Commissioner for External Finance and Debt Management,
Ministry of Finance,
The United Republic of Tanzania



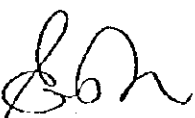
The preparatory study team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA"), and headed by Mr. Takeaki Sato, visited the United Republic of Tanzania from October 21 to November 1, 1996 for the purpose of discussing and confirming the Scope of Work for the Study on Lower Moshi Integrated Agriculture and Rural Development Project (hereinafter referred to as "the Study").

The Team had a series of discussions with the officials concerned at Ministry of Agriculture and Cooperatives (hereinafter referred to as "MAC"), Kilimanjaro Regional authorities and other organizations on the Scope of Work for the Study. The list of participants in the meetings is attached in the ANNEX 1.

As a result of the discussions, the Team, MAC and Kilimanjaro Regional authorities agreed on the Scope of Work for the Study.

The following are the main issues discussed and agreed on in relation to the Scope of Work for the Study:

1. The first priority of development should be given to existing Lower Moshi Project in the study area. In existing Lower Moshi Project area (2300ha) the first priority should be given to paddy field (1100ha) and the second priority should be given to upland crops (1200ha). Priority of the expanded area (1450ha) and the new potential extension area (2250ha) are to be considered on the course of the Study.
2. The participatory approach is very important both at the planning and implementation stage. MAC and Kilimanjaro Regional authorities requested that seminars should be held several times during the Study in order to listen to the opinion of the farmers and to explain the contents of development plan to the farmers. The Team agreed to this request.
3. The study and strengthening of farmers' organizations should be carried out sufficiently (system management, basic leadership and financial management) in order to make the project sustainable in the future.
4. Gender aspects in agricultural development are of vital importance, therefore the need of its inclusion in the Study.
5. From the environmental point of view countermeasures to water-borne diseases as well as other natural and social environmental aspects should be included in the Study.
6. The Team requested that close collaboration between MAC and Kilimanjaro authorities should be maintained for smooth implementation of the Study. MAC and Kilimanjaro Regional authorities agreed to this request.
7. The Team requested that MAC and Kilimanjaro Regional authorities should assign the qualified and necessary number of counterpart personnel for the Study. Project coordinator shall be assigned from Kilimanjaro authorities. MAC and Kilimanjaro Regional authorities agreed to this request.



8. The Team requested that a Steering Committee should be established by the related Ministries and organizations under the chairmanship of MAC for smooth implementation of the Study before the commencement of the Study. MAC agreed to this request .

9. MAC requested a counterpart training in Japan. The Team promised to convey the request to the Government of Japan.

10. MAC requested that the following equipment necessary for the Study be arranged by JICA. The Team promised to convey the request to the Government of Japan.

- vehicle(s)(4WD)
- photocopy machine
- others

11. MAC and Kilimanjaro Regional authorities requested JICA to provide negatives, aerial photographs and maps related to the Study. The Team agreed to this request.



ANNEX-I

LIST OF PARTICIPANTS

1. Tanzanian Side

MOF(Ministry of Finance)

Mr. E.M.Masanja Commissioner for External Finance and Debt Management
Mr. P.A.Mwafongo Japan Desk Officer

MAC(Ministry of Agriculture and Cooperatives)

Mr. Raphael O. S. Mollel Principal Secretary
Mr. Wilfred Ngirwa Commissioner for Planning & Marketing Division
Dr.J.Kimati Ag.Commissioner Planning and Marketing
Dr.G.Mitawa Assistant Commissioner-Crop Research
Mr.H.I.Masija Assistant Commissioner-Irrigation
Dr.J.N.Malewasi Assistant Commissioner-Crop Development
Mr. E.J.Lujuo Ag.Assistant Commissioner-Crop Development
Mr. J.S. Lugaganya Economist, Desk Officer for Japan
Mr. M.W.Misabo Training Officer
Mr. Phares Kinyawa Ag.Assistant Commissioner-Crop Research
Mr. I.I. Nkuba Principal Irrigation Engineer
Mr. R.J.M.Temu Irrigation Engineer

Kilimanjaro authorities

Mr. P.O.Chikira Ag.Regional Administrative Secretary
Mr. S.C.Mbesere District Commissioner, Moshi
Mr. H.Z.Riwa Regional Planning Officer, Kilimanjaro
Mr. K.E.Kyova Ag.Regional Manager TANESCO, Kilimanjaro
Mr. M.Sadiki General Manager, TPC
Dr. F.P.Sunguya Regional Agricultural Livestock Development Officer,
Kilimanjaro
Mr. A.K.Kigingi Regional Water Engineer
Mr. C.K.Chiza National Coordinator,
Rehabilitation of Traditional Irrigation Projects in Arusha
and Kilimanjaro
Mr. G.R.Moshi Director, KADP,Kilimanjaro
Mr. L.R.Daluti Zonal Irrigation Engineer, Kilimanjaro
Mr. G.T.Mosha Ag. Regional Natural Resources Officer, Kilimanjaro
Mr. A.B.Matungwa Ag.Regional Forest Officer, Kilimnjaro

2. Japanese Side

JICA Preparatory Study Team

Mr. Takeaki Sato Team Leader
Mr. Satoshi Ohashi Agricultural and Rural Infrastructure
Mr. Hiroshi Sumita Agriculture
Mr. Hiroshi Okabe Rural Society
Mr. Manabu Kashiwabara Coordinator

JICA Tanzania Office

Mr. Hiroyuki Moronaga Assistant Resident Representative

JICA Expert

Mr. Seikichi Sugawara KADP
Mr. Hideo Okada KADP

添付資料-2

インセプション・レポートに係る協議議事録

LIST OF ATTENDANTS

Tanzania Side

1. Ministry of Agriculture and Cooperatives

Mr. Raphael O.S. Mollé	Principal Secretary
Mr. G.M. Kalinga	Ag. Assistant Commissioner, Irrigation
Ms. Catherine Joseph	Ag. Assistant Commissioner, Planning and Marketing for Agriculture
Mr. J.S. Lugaganya	Economist, Desk Officer for Japan

2. Kilimanjaro Authorities

Mr. P.O. Chikira	Regional Administrative Secretary
Mr. G.R. Moshi	Director, KADP, Kilimanjaro
Mr. L.R. Daluti	Zonal Irrigation Engineer, Kilimanjaro
Mr. M.E. Kessi	Regional Irrigation Engineer, Kilimanjaro
Mr. C.K. Chiza	National Coordinator, Rehabilitation of Traditional Irrigation Projects in Arusha and Kilimanjaro
Ms. R.J. Benne	Ag. Regional Planning Officer

Japanese Side

1. Advisory Team :

JICA Headquarters (Japan)

Mr. Manabu Kashiwabara	Leader
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JICA Tanzania Office

Mr. Tadanobu Ono	Assistant Resident Representative
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2. Kilimanjaro Agriculture Development Project (KADP):

Mr. Seikichi Sugawara	JICA Expert
Mr. Hideo Okada	JICA Expert

3. JICA Study Team :


Mr. Yusaku Toya	Leader
Mr. Hitoshi Shimazaki	Irrigation and Drainage Engineering
Mr. Takayoshi Yamazaki	Rural Sociology/Farmer's Organization
Mr. Takuya Igawa	Water Resources/Hydrology



M.K.

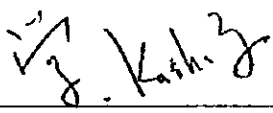
MINUTES OF MEETING
FOR
THE INCEPTION REPORT
ON
THE FEASIBILITY STUDY
ON
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT
IN
THE UNITED REPUBLIC OF TANZANIA

7 APRIL, 1997


for Mr. Raphael O.S. MOLLIEL
Principal Secretary
Ministry of Agriculture and Cooperatives
The United Republic of Tanzania


Mr. Yusaku TOYA
Leader
The Study Team
Japan International Cooperation Agency

Witnessed by


Mr. Manabu KASHIWABARA
Leader
The Advisory Team
Japan International Cooperation Agency

MINUTES OF MEETING
FOR
THE INCEPTION REPORT
ON
THE FEASIBILITY STUDY
ON
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT

The JICA Study Team submitted twenty (20) copies of the Inception Report (the Report) to the Ministry of Agriculture and Cooperatives (MAC) on 2 April, 1997 in accordance with the Scope of Work for the Feasibility Study on Lower Moshi Integrated Agriculture and Rural Development Project (the Project) in the United Republic of Tanzania agreed upon between MAC and Japan International Cooperation Agency (JICA) on 31 October, 1996.

Meetings were held on 1, 2, and 3 April, 1997 among MAC, Kilimanjaro Authorities, JICA Advisory Team and JICA Study Team. In the meetings, Mr.Y.Toya, Leader of the JICA Study Team, presented the highlights of the Report. This was followed by discussions on the contents of the Report among the participants (See Attachment). The following are the results of the discussions:

- (1) In principle, the contents of the Report were accepted by MAC and Kilimanjaro Authorities.
- (2) MAC confirmed that a steering committee would be organized as early as possible mainly to discuss technical matters related to the Project and the committee meetings would be held in Moshi where the Project is located. Both Kilimanjaro Authorities and the JICA Study Team agreed that representatives of Moshi and Hai Districts should be invited to the steering committee meetings.
- (3) The JICA Study Team requested MAC to arrange the required number of counterpart personnel as mentioned in the Report. MAC agreed that the counterpart personnel would be arranged in consultation with the Kilimanjaro Authorities.
- (4) Both Kilimanjaro Authorities and the JICA Study Team confirmed that public meetings with farmers should be held cautiously so as not to cause farmers' excessive expectation on the realization of the Project.



M.K

添付資料- 3

第 1 回技術運営委員会協議議事録

MINUTES OF MEETING OF TECHNICAL STEERING COMMITTEE
FOR THE FEASIBILITY STUDY ON LOWER MOSHI INTERGRATED
AGRICULTURE AND RURAL DEVELOPMENT PROJECT

THE FIRST TECHNICAL STEERING COMMITTEE MEETING

Date: 11th APRIL 1997 9:00am

Venue: KADP Meeting Room Moshi

Attendants:

1. Mr. G.M. Kalinga -Ag. Assistant Commissioner Irrigation
(Chairman)
2. Mr. H.Z. Riwa -Regional Planning Officer, Kilimanjaro
(Secretary)
3. Mr. G.R. Moshi -Director KADP
4. Mr. R.L. Daluti -Zonal Irrigation Engineer Kilimanjaro
5. Mr. M.E. Kessy -Regional Irrigation Engineer Kilimanjaro
6. Mrs.C.A.A. Sonyi -Senior Economist - Planning Commission
7. Mrs.T.B. Marandu -Agricultural Economist, Planning and
Marketing - MAOC
8. Mr.J.S.Lugaganya - Economist, Ministry of Agriculture
9. Mr. Y. Toya - Team Leader JICA Study Team

Invited Participants:

1. Mr. C.Mbesere - District Commissioner, Moshi
2. Mr. S.Sugawara - JICA Expert, KADP
3. Mr. H.Okada - JICA Expert, KADP
4. Mr. H. Shimazaki - JICA Expert, Study Team
5. Mr. T. Fujimura - JICA Expert, JICA-CIDA Joint
Evaluation Team
6. Mr. T. Igawa - JICA Study Team
7. Mr. T. Yamazaki - JICA Study Team

1. OPENING OF THE MEETING:

The Director of KADP Mr. G.R. Moshi welcomed the committee Chairman Mr. G.M. Kalinga - Ag. Asst. Commissioner - Irrigation, to officially open the meeting.

The Ag. Asst. Commissioner - Irrigation Mr. Kalinga addressed the meeting by requesting the member of the committee to be brief and technical during discussions. He also requested the secretariate to prepare written agenda to be distributed to members in the future meetings as he noted that there was no written agenda for the 1st meeting.

He commended Kilimanjaro Regional authorities for making efforts to look for a lasting solution to the problem of acute water shortage in the Lower Moshi Irrigation Project. He also appreciated the cooperation shown by the Government of Japan in solving this problem.

2. SUMMARY OF THE INCEPTION REPORT:

A brief summary of the Inception Report on the Feasibility Study was given by the JICA Study Team Leader, Mr. Y. Toya as follows:

Objectives of the study:

He said that the study has two objectives:

(1) Formulation of optimum intergrated agriculture and rural development plan for a potential area of about 6,000ha. including the existing irrigation area in Lower Moshi.

(2) Technology transfer to Tanzanian Counterparts

He also outline the work flow of the study (between March 1997 and June 1998) including;

- .Data collection (various data)
- .Data analysis and evaluation
- .Aerial photo shooting for topo-map preparation
- .Meeting with farmers - to explain the development plan
- .Preparation and submission of various report, such as; Progress Report, Interim Reports and the Final Report.

He also briefly explained the duties to be under-taken by the JICA Study team and those which are the obligations of the government of Tanzania as agreed in the Scope of Works.

3. DISCUSSION ON THE INCEPTION REPORT:

The Committee Chairman opened discussions on the Report by asking members to give their opinion on the composition of the steering Committee.

Members responded as follows:

-Some members suggested that farmers should be involved at this early stage of the studies. In order to encourage the participation of the beneficiaries from the existing Lower Moshi Project, expanded area and from the potential extension area, be invited to the committee at the explanation period of the Interim Report (November 1997).

-The JICA Study Team Leader explained the importance of inviting a representative of the Ministry of Water to ease Water Right processing. The committee agreed that a representative of the Pangani Basin Authority should be invited as a member. The committee further agreed to invite TPC to the committee meetings whenever agenda related to TPC facilities is raised.

-In response to request for a person to deal with gender issues during the study, the committee agreed to assign a rural Sociologist counterpart conversant with gender issues appraisal.

4. COUNTERPARTS:

The Committee confirmed the following counterpart personnel to be assigned in line with the assignment of the JICA experts:

- 1) Mr. G.R. Moshi - Chief Counterpart
- 2) Mr.G.M. Nderingo - Irrigation/Drainage
- 3) (To be decided later)-Rural Sociologist
- 4) Mr. H.N.Jengo (ZIU) -Water Resources/Hydrology
- 5) Mr. B.Mrisha (Phase I)Agriculture/Land Use
Ms. J.Kessy (Phase II) - do -
- 6) Mr. G. Ngodoki -Water Management/O&M
- 7) (Not decided by Water Dept.) -Geology
- 8) (Not decided by Water Dept.) -Rural Infrastructure

- | | |
|--------------------|----------------------------------|
| 9) Mr. Adolph | -Environment |
| 10) Mr. M.E. Kessi | -Structural design/cost Estimate |
| 11) Mr. Lyatuu | -Agro-economy/Project Evaluation |
| 12) Mr. J.Z. Moshi | -Aerial photo/ground control |
| | -Topo-Survey |

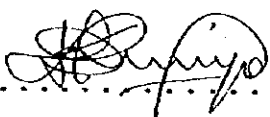
5. WORKING BUDGET:

The committee agreed that a budget be prepared for counterparts and steering committee expenses and other related costs for the study and be submitted to the government of Tanzania for request of funding. Likewise a budget for the Technical Steering Committee be prepared for smooth running of meetings and be submitted to MAC.


6. NEXT MEETING:

The committee decided provisionally that the 2nd Steering Committee Meeting would be held at the meetingg Room of KADP on 4th July, 1997.

The Meeting was closed at 11:45am.


 /.....

Mr. G.M. Kalinga
 AG.ASST.COMMISSIONER IRRIGATION
 (Chairman)



Mr. H.Z. Riwa
 REGIONAL PLANNING KILIMANJARO
 (Secretary)

添付資料- 4

第 2 回技術運営委員会協議議事録

MINUTES OF MEETING OF TECHNICAL STEERING COMMITTEE
FOR THE FEASIBILITY STUDY ON LOWER MOSHI INTEGRATED
AGRICULTURAL AND RURAL DEVELOPMENT PROJECT

THE 2ND TECHNICAL STEERING
COMMITTEE MEETING

Date : 4/July, 1997

Time: 10:00am

Venue: KADP Meeting Room Moshi

Members Attendants:

- (1) Mr. R. L. Daluti - Zonal Irrigation Engineer Kilimanjaro
(Chairman)
- (2) Mrs. R. J. Benne - Ag. Regional Planning Officer
Kilimanjaro (Secretary)
- (3) Mr. Y. Toya - Team Leader, JICA Study Team
- (4) Mr. H. Shimazaki - Expert, Irrigation & Drainage, JICA
Study Team
- (5) Mr. G. R. Moshi - Chief Counterpart, F/S Team
- (6) Mr. J. S. Lugaganya - Economist, Ministry of Agr. - DSM.
- (7) Mrs. C. A. A. Sonyi - Principal Economist Planning
Commission, DSM.

Invited Participants:

- (1) Mr. R. H. Mushi - District Commissioner, Hai
- (2) Mr. V. M. Sekao - Chief Agr. Engineer TPC
- (3) Mr. A. K. Kigingi - Regional Water Engineer
- (4) Mr. Hideo Okada - JICA Expert, KADP
- (5) Mr. Y. Satomi - JICA Expert, KATC
- (6) Mr. K. Shiratori - JICA Expert, KATC
- (7) Mr. D. Nakajima - Photogrammetric Survey, Study Team
- (8) Dr. B. N. Adhikary - Agro Economy/Project Evaluation F/S.
- (9) Mr. H. Isogai - JICA Expert, F/S Team
- (10) Mr. S. Ando - JICA Expert, O&M F/S Team
- (11) Mr. S. Moriyama - Expert for structure Design & Cost
Estimate, F/S Team

- (12) Mr. E. Mallya - Counterpart - Rural Sociology and Farmers organization
- (13) Mr. R. J. Shayo - Principal, KATC Moshi
- (14) Mr. K. A. Nkya - Water Management, KATC Moshi
- (15) Mr. G. Maregesi - Water Management, KATC Moshi
- (16) Mr. A. Matungwa - Counterpart - Environment Aspects
- (17) Mr. M. Kanyawanah - Counterpart - Geology/Soil mechanics
- (18) Mr. M. E. Kessi - Counterpart - Structure design/cost Estimate
- (19) Mr. O. D. Kimicho - Counterpart - Irrigation & Drainage
- (20) Mr. B. Mrisha - Counterpart - Agriculture & Land use
- (21) Mr. S. E. Matemtu - Counterpart - O&M works/water management
- (22) Mr. U. A. Lyatuu - Counterpart, Agro-Economy/Project Evaluation
- (23) Mr. M. Minja - Secretary, CHAWAMPU

Invited members who did'nt Attend:

- (1) Regional Agriculture and Livistock Development Officer, Kilimanjaro.
- (2) District Commissioner - Moshi
- (3) Pangani Basin Water Officer.

1:0 Opening of the Meeting:

The Secretary Mrs. R. J. Benne presented the quorum of the members of the Steering Committee to the Chairman Mr. R. L. Daluti, to officially open the meeting.

The Chairman addressed the meeting by welcoming all the members and invited them for self introduction. After the self introduction he requested members to be brief in their discussions so that we can achieve the maximum discussion at the stipulated time. Having said that he declared the meeting open.

1:1 Approving the Agenda.

The Chairman read out the agenda and requested members to approve it. There was no objection from the members and the agenda was adopted.

1:2 Reading and Approving Minutes of the Previous Meeting of 11/04/1997.

The minutes were read to the committee and adopted as true testimony for record of the previous meeting.

1:3. Matters arising from the minutes of the Previous Meeting of 11/04/1997.

1:3:0 Preparation of Written agenda:

The Agenda was prepared in advance and presented to members as requested in the previous meeting.

1:3:1 Budget for the Project.

A budget of Tshs. 21,245,200/= has been prepared and presented to the Ministry of Agriculture and Cooperative in the following breakdown.

(1) Travelling expenses	4,750,000.00
(2) Fuel for vehicles (steering committee)	2,397,600.00
(3) Sitting Allowance	1,350,000.00
(4) Lunch/Overtime for Counterparts	4,860,000.00
(5) Co-ordination	666,000.00
(6) Fuel for field work	5,561,600.00
(7) Office and Stationery	625,000.00
(8) Tea and Bites during meetings	45,000.00
(9) Contigencies	<u>1,000,000.00</u>
Total	<u>21,245,200.00</u>

A representative from MAC Mr. J.S. Lugaganya acknowledged receipt of the budget and after scrutiny presented it in the budget for MAC. He informed members that since the budget session is still going on in Dodoma,

there is no money for this meeting but he assured members that money will be available for the 3rd meeting.

1:3:2 Necessary Counterpart

The following list of counterpart Personnel was presented to the committee as agreed in the previous meeting.

- | | |
|---------------------|---|
| (1) Mr.G.R.Moshi | - Chief Counterpart (from KADP) |
| (2) Mr.H.N.Jengo | - Water resources/Hydrology
(from ZIE's Office) |
| (3) Mr.G.M.Nderingo | - Rural Infrastructure
(from ZIE's office) |
| (4) Mr.B. Mrisha | - Agriculture/Land use (from KADP) |
| (5) Mr.M.E.Kessi | - Structure design/cost estimate
(RIE) |
| (6) Mr.A. Matungwa | - Environment (from NRO) |
| (7) Mr.M.Kanyawanah | - Geology/Soil mechanics
(from RWE's office) |
| (8) Mr.E.Mallya | - Rural Sociology/Farmers
Organization (from CDO's office) |
| (9) Mr.O.D.Kimicho | - Irrigation & Drainage (from KADP) |
| (10) Mr.G.Ngodoki |) |
| Mr.S.Matemu |)- Water Management/O&M (from KADP) |
| (11) Mr.J.Moshi | - Aerial Photo/Topo-Survey
(from ZIE's office) |
| (12) Mr.G.Lyatuu | - Agro-economy/Project evaluation
(from RALDO's office) |

The Committee accepted the list as presented.

1:4 Presentation and discussion of Progress Report I.

1:4:1 The Progress report for Phase I works was presented by Mr. Y.Toya, Team Leader of the Feasibility Study Team covering the following areas:

- (a) Topography and Geology of the area
- (b) Meteo-hydrology
- (c) Soils and Land Suitability

- (d) Irrigation and Drainage Infrastructure of the existing Lower Moshi Irrigation Project, expanded area and the new potential area
- (e) Water Management of the Study area
- (f) Rural Infrastructure of the study area
- (g) Present Agriculture activities in the study area
- (h) Agro-economy of the study area
- (i) Farmers organisation in the study area
- (j) Agricultural supporting services in the study area
- (k) Initial Environmental Examination of the study area
- (l) Preliminary Study on water source development

(i) Water balance study

(ii) Reservoir operation of Nyumba ya Mungu

(iii) Change of Mean Monthly Discharge after project Implementation.

(iv) Mean minimum Discharge of Kikuletwa river after Implementation of the project.

(m) Formulation of Preliminary Basic Development Plan

(i) National Agriculture and Rural Development objectives and Policies.

(ii) Proposed Agricultural Development in the Study area

(iii) Irrigation and Drainage Development in the study area

(iv) Proposed rural infrastructure.

(v) Establishment of Farmer's Organisation

All these items will be studied further in detail during the 2nd Phase commencing in September, 1997.

The Chairman thanked Mr. Toya for the good presentation of the Report and adjourned the meeting for 15 minutes for Tea Break after which we shall start discussions.

1:4:2 The Chairman rejoined the meeting and requested the members who came late to introduce themselves - Eng. Kigingi - Regional Water Engineer and TPC Agriculture Engineer Mr. Sekao.

After the introduction, the Regional Water Engineer congratulated the Team Leader for the good presentation on the report at the shortest time possible. The members had some reservations on the following issues:

(1) The RWE wanted the elaboration of the criterion used for the calculation for water or irrigation and Domestic use.

In response, the Team Leader informed the members on the criterion used for the calculations and referred them to the detailed Report for clarification.

(2) The RWE also wanted to know the effect of the water Balance level for Nyumba ya Mungu Dam when the project takes off.

Also he raised concern on the overlook on the surface runoff which was not included in the Report.

In Reply The Team Leader assured members that the minimum level of water in Nyumba ya Mungu Dam will not be affected by the project. Also he agreed to tackle the issue of surface runoff in the Interim Report.

(3) A member from the Planning Commission Mrs C.A.A. Sonyi wanted to know the criterion used to select Plan C and B.

In response the Team Leader informed the members that the main criterion used was the costs for the implementation of the plans as the Beneficiaries are the same for all the plans.

- (4) A member from TPC Mr. Sekao raised concern on the salinity of the water according to their analysis.

The Team Leader assured members that a thorough water analysis has been done during the Rainy season and proved no salinity. Another water analysis will be done during the dry season on the same basis.

- (5) The District Commissioner for Hai District noted the absence of Rainfall Precipitation in the water balance study for the Nyumba ya Mungu Dam

The Team Leader informed the meeting that it was very negligible but it will be incorporated in the study to be made in Phase II.

- (6) The RWE wanted to know FAO standards for water quality quoted in the Summary Report.

The Team Leader referred him to the Detailed Report in which the standards were included.

- (7) A member from MAC advised that in the final analysis a chapter on all the problems identified in different sectors should be summarised for easy reference when looking for solutions.

In Reponse the Team Leader assured the members that it will be included in the interim Report.

(8) In conclusion of the Discussion members were assured that all the comments will be incorporated in the Interim Report.

1:5 Application of Water Right

The Report on the application of Water Right was presented to the committee. In discussion it was noted that the new policy on Water Right specify that beneficiaries should be applicants and not the government. Therefore the applicant should be CHAWAMPU. After a long discussion it was agreed that CHAWAMPU should apply for the Water Right.

The Team Leader wanted to know the time when the application will be forwarded to the Ministry of Water for action.

Members were informed that the application has been forwarded to MAC for onward transmission to Ministry of Water.

1:6 AOB

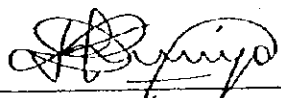
1:6:1 MAC representative presented a problem of KATC on the drainage system for KATC Chekereni compound. They proposed that the Study should include KATC.

In Response, the Team Leader informed members that they cannot do anything which was not included in the Scope of Works. The only thing they can do is to forward the request to JICA Headquarters in Tokyo.

Closing

The Chairman invited the Team Leader for any comments. The Team Leader invited all the participants to Lunch at Moshi Hotels at 1:30.

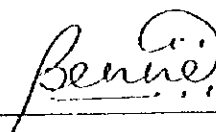
The Chairman thanked all the members for their contribution and informed the members that they will be notified of the date for the next meeting and venue in due time. Having said that he declared the meeting closed at 1:10pm.



Mr. R.L. Daluti,

CHAIRMAN

ZONAL IRRIGATION ENGINEER.



Mrs. R.J. Benne,

SECRETARY

Ag. REGIONAL PLANNING OFFICER


4TH JULY, 1997

添付資料- 5

プロGRESS・レポート-Iに係る協議議事録

MINUTES OF MEETING
FOR
THE PROGRESS REPORT-I
ON
THE FEASIBILITY STUDY
ON
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT
IN
THE UNITED REPUBLIC OF TANZANIA

9 JULY 1997



Lt. Col. T.P. Magere
Principal Secretary
Ministry of Agriculture and Cooperatives
The United Republic of Tanzania



Mr. Y. TOYA
Leader
The Study Team
Japan International Cooperation Agency

MINUTES OF MEETING
FOR
THE PROGRESS REPORT-I
ON
THE FEASIBILITY STUDY
ON
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT

The JICA Study Team submitted twenty (20) copies of the Progress Report - I (the Report) to the Ministry of Agriculture and Cooperatives (MAC) on 30 June, 1997 in accordance with the Scope of Work for the Feasibility Study on Lower Moshi Integrated Agriculture and Rural Development Project (the Project) in the United Republic of Tanzania agreed upon between MAC and Japan International Cooperation Agency (JICA) on 31 October, 1996.

A meeting was held on 8 July, 1997 between MAC and JICA Study Team. In the meeting, Mr. Y. Toya, Leader of the JICA Study Team, presented the highlights of the Report. It was also reported in the meeting that the 2nd Technical Steering Committee was held based on the Report at Moshi on 4 July 1997. These were followed by discussions on the contents of the Report among the participants attached herewith. The following are the results of the discussions:

- (1) In principle, the contents of the Report were accepted by MAC.
- (2) Both MAC and the JICA Study Team agreed that ;
 - (a) domestic water supply would be planned considering the increase in population of village people concerned;
 - (b) an organization for O & M works after implementation of the project would be studied in the home work in Japan, and the results would be incorporated into the interim report;
 - (c) a water quality test on river water of the Kikuletwa would be carried out in the dry season as well as in this rainy season, and then its suitability as irrigation water would be assessed; and

(d) the JICA Study Team would officially submit the application documents of water right accompanied by a technical report to MAC on July 9, 1997.

A handwritten signature in cursive script, possibly reading "D.", followed by a period.Handwritten initials "Tuh" in a cursive style.

LIST OF PARTICIPANTS

Tanzania Side

1. Ministry of Agriculture and Cooperatives

Mr.I.N.L. Kaduma	Ag. Commissioner for Planning and Marketing.
Mr.A.A. Mbwele	Ag. Commissioner for Agriculture and Livestock Development
Mr.M.N.W. Mozawa	Ag. Assistant Commissioner for Irrigation
Mr.J.S. Lugaganya	Economist, Desk Officer for Japan
Mr.R.L. Dalati	Zonal Irrigation Engineer, Kilimanjaro
Mr.G.R. Moshi	Chief Counterpart of JICA Study Team

Japanese Side

1. JICA Tanzania Office :

Mr. Tadanobu Ono	Assistant Resident Representative
Ms. D.Sungusia	Programme Officer

2. JICA Study Team :

Mr. Yusaku Toya	Leader
Mr. Hitoshi Shimazaki	Irrigation and Drainage Engineering
Mr. Shigeo Ando	Water Management/Operation and Maintenance
Mr. Hirohisa Isogai	Geology/Soil Mechanics
Mr. Saku Moriyama	Structure Design/Cost Estimate
Dr. Badri Nath Adhikary	Agro-economy/Project Evaluation
Mr. Daikichi Nakajima	Aero-photo/Ground-control Survey Supervision



添付資料- 6

第 3 回技術運営委員会協議議事録

MINUTES OF TECHNICAL STEERING COMMITTEE FOR THE
FEASIBILITY STUDY ON LOWER MOSHI INTERGRATED
AGRICULTURE AND RURAL DEVELOPMENT PROJECT

THE THIRD TECHNICAL STEERING COMMITTEE MEETING

Date: 14th November, 1997

Venue: KADP Meeting Room, Moshi

Members Attendants

1. Mr. G.M. Kalinga - Ag. Assistant Commissioner
Irrigation Division (Chairman)
2. Mr. G.R. Moshi - Director KADP (Member)
3. Mr. R.L. Daluti - Zonal Irrigation Engineer,
Kilimanjaro (Member)
4. Mr. J.S. Lugaganya - Economist Ministry of
Agriculture (Member)
5. Mrs. C.A.A.Sonyi - Principal Economist - Planning
Commission (Member)
6. Mr. H. Shimazaki - Expert, Irrigation & Drainage
JICA (Member)
7. Mr. Y. Toya - Team Leader JICA Study Team
(Member)
8. Mr. H.Z. Riwa - Regional Planning Officer,
Kilimanjaro (Secretary)
9. Mr. S. Moriyama - JICA Study Team
10. Mr. H. Hasegawa - JICA Study Team
11. Mr. T. Shiraki - JICA Study Team
12. Mr. T. Yamazaki - JICA Study Team
13. Mr. S. Sugawara - KADP JICA Expert

Invited Members - Attendants

1. Mr. C.K. Chiza - National Project Coordinator,
UNDP Project, Kilimanjaro
2. Mr. J.Z.Mahenda - District Administrative
Secretary, Moshi.

3. Mr. S.A.Hilal - TANESCO Regional Manager
4. Mr. A.I. Shayo - for Regional Water Engineer, Kilimanjaro.
5. Mr. K. Hihara - JICA Headquarter, Tokyo
6. Mr. A.C.J. Temba - RALDO, Kilimanjaro.

Invited Members who did not Attend

1. District Commissioner, Hai (On Safari)
2. General Manager, TPC.

1:0 Opening of the Meeting:

The Chairman welcomed the members to the Third Techniccal Steering Committee Meeting thanking them for attending. Before opening the meeting the Chairman requested the members and the invitees to make self introduction.

1:1 Approving the Agenda

The Chairman read out the agenda and requested the members to approve it. There was no objection nor addition so the agenda was adopted.

1:2 Reading and Approving the Minutes of the previous Meeting held on 4th July, 1997.

The Secretary read out the minutes. While reading some corrections were made as follows:

- i) On Min. 1:4:1: Line no. 2 the word "Leaer" was corrected to read "Leader".
- ii) On Min: 1:4:1 - page 6 second sentence from top the word "adjoined" should read "adjourned": Third sentence the word..."We shall start discussions" should be deleted to read "the meeting reconvened"

- iii) Min. 1:4:2 (1) Line No. 2 the words "water or" should read "water for"
- iv) On page 7 at the top, third sentence the words reading "Beneficiaries" should read "Benefits".
- v) Min. 1:5 Application of Water Right
The words in the 4th sentence reading "and not the government" should all be deleted.
- vi) Closing: After the number 1:30 the word "pm" should be added.
- vii) The Titles for the Chairman and the Secretary signing for the deliberations should be deleted and be replaced by

CHAIRMAN	and	SECRETARY
Technical Steering Committee		Technical Steering Committee

After making those corrections the minutes were discussed and during discussions it was agreed unanimously that, in subsequent minutes of this committee, names of members making comments should not appear. It will be enough to mention where the participant/member making the comment comes from.

After the deliberations, the minutes were adopted as true testimony of what was discussed and signed.

1:3 Matters Arising from the Minutes

1:3:1 Budget for the Project

The meeting was informed that, the Ministry of Agriculture and Cooperatives (MAC) has not managed to release the funds and it was not clear as to when funds will be released.

After a lengthy discussion on this issue it was agreed that,

- The Ministry of Agriculture and Cooperatives should continue with efforts of availing the needed local funds.
- The Region should approach the Beneficiaries ie. CHAWAMPU and Local Authority to contribute something to this project.

1:3:2 Water Right Application

The meeting was informed that a formal application for Water Right had already been sent to Pangani ^{Basin} Water Office but no response to the application had been made.

The meeting was further informed that, since this application process has taken too long there might be some technical problems which need to be looked at in depth to enable the project get the Water Right in time.

After a lengthy discussion, the committee concluded as follows:-

1. Regional Administrative Secretary is requested to follow up a letter he had ordered the Regional Water Engineer to write to Pangani ^{Basin} Water Office to see whether it was sent or not.
2. A Sub-committee of three members Mr. G.R.Moshi, Mr. R.L. Daluti and Mr. H. Riwa was formed: Terms of Reference were:-

To make a Follow up on the request submitted for Water Right and make sure we get its end result at the right time".

1:3:3 Drainage System for KATC Chekereni Compound

As agreed earlier, the request was sent by the Team Leader to JICA Headquarters. JICA headquarters has not responded so far. The committee decided to make a new request to JICA at the time of design.

1:4 Presentation and Discussion of the Interim Report

The Team Leader presented the Interim Report skillfully for one hour after which the meeting was adjourned for one hour to get Lunch and reconvene at 3:00pm.

1:4:1 Discussions on the Report were made during this session as follows:-

1:4:2 Mini-Electricity Supply

There was a question as to who would be managing the Mini-hydro-Power plant in the project, whether it was TANESCO or CHAWAMPU.

The answer was that if TANESCO was to be privatized then it would not be possible for them to run it but it will very much depend on the Tanzania Government decision.

1:4:3 Domestic Water

An expert from the Water Sector wanted to know who should be responsible for Operation and Maintenance of the domestic water supply facilities.

The meeting was informed that the Operation and Maintenance will be carried out by the beneficiaries. This will include all works except the headworks, and the diversion canal.

1:4:4 Land Allocation

One member wanted to know whether the farmers were aware of the project and how land will be distributed to farmers.

The meeting was informed that, consideration had been made of land tenure because the land is currently owned by farmers and it is these farmers who will be re-allocated the developed land.

1:4:5 Involvement of Farmers

The members enquired on the extent of farmers involvement in the project.

The members were informed that public meetings have been planned and was agreed that they should be conducted as planned.

1:4:6 Marketing Aspects

Members wanted clarification on whether the marketing aspect was given due consideration. The meeting was informed that the marketing aspect was a subject for further study to be done during phase II.

1:4:7 Water Borne Diseases

On the question of water borne diseases aspects, it was informed that it had already been identified during IEE and will be studied further in Phase II.

The Team Leader promised to discuss on the modalities later.

1:4:8 Mtakuja Village

The members were cautioned that the Mtakuja village residents are basically pastoralists. If the Mtakuja village is all developed into paddy production it is bound to result into a conflict.

The meeting resolved that, during designing stage, the pastoralists should be considered.

1:4:9 Water Abstraction from Kikuletwa River

In the report it is indicated that there are two alternatives in consideration:-

Alternative I -abstracting $11\text{m}^3/\text{sec}$. leads to making a portion of the river dry for a certain period of the year and it seems it ~~is~~ has higher economic benefits than alternative II ~~given an IRR of 15%~~.

Alternative II-abstracting $9\text{m}^3/\text{sec}$.and $5\text{m}^3/\text{sec}$.during rainy and dry season respectively allowing reasonable downstream flow but with lower economic benefits.

After a long discussion on this issue, the meeting unanimously agreed that it is improper to leave a portion of any river dry at any one time.

Secondly we should consider downstream users like the Msitu wa Tembo users whom we were informed had already been given a provisional Water Right.

It was agreed that:-

1. We can not expect to get a Water Right of $11\text{m}^3/\text{s}$ and
2. We are not withdrawing our original request for Water Right of $9\text{m}^3/\text{sec}$.and $5\text{m}^3/\text{sec}$.during rainy and dry season respectively.
3. The Study Team should reconsider this issue in collaboration with the Sub Committee.

1:5 A.O.B. There was no Other Bussiness.

1:6 Closure

The Chairman thanked the members for their good deliberations in this important meeting for our country. He indicated the need for all of the members to visit the project sites during the next technical meeting.



.....
G.M. KALINGA
CHAIRMAN,
TECHNICAL STEERING
COMMITTEE



.....
H.Z. RIWA
SECRETARY
TECHNICAL STEERING
COMMITTEE

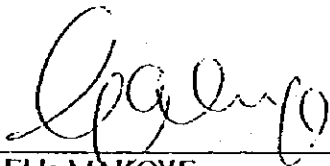
Date: 09 - 01 - 1998

添付資料- 7

インテリム・レポートに係る協議議事録

MINUTES OF MEETING
FOR
THE INTERIM REPORT
ON
THE FEASIBILITY STUDY
FOR
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT
IN
THE UNITED REPUBLIC OF TANZANIA

18 NOVEMBER 1997



Ms. Edda MAKOYE
Ag. Principal Secretary
Ministry of Agriculture and Cooperatives
The United Republic of Tanzania



Mr. Yusaku TOYA
Leader
The Study Team
Japan International Cooperation Agency

Witnessed by



Mr. Kazutomo IHHARA
Coordinator
Japan International Cooperation Agency

MINUTES OF MEETING
FOR
THE INTERIM REPORT
ON
THE FEASIBILITY STUDY
FOR
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT

The JICA Study Team submitted twenty (20) copies of the Interim Report (the Report) in total to the Ministry of Agriculture and Cooperatives (MAC) on 7 and 12 November 1997 in accordance with the Scope of Work for the Feasibility Study on Lower Moshi Integrated Agriculture and Rural Development Project (the Project) in the United Republic of Tanzania agreed upon between MAC and Japan International Cooperation Agency (JICA) on 31 October 1996.

A meeting was held on 17 November 1997 among MAC, the Kilimanjaro Authorities, the JICA Advisory Team and the JICA Study Team. In the meeting, Mr. Y. Toya, Leader of the JICA Study Team, presented the highlights of the Report and also, explained the discussion results of the 3rd Technical Steering Committee Meeting. These were followed by discussions on the contents of the Report among the participants (see attachment). The following are the results of the discussions:

- (1) In principle, the contents of the Report were accepted by MAC and the Kilimanjaro Authorities.
- (2) The water allocation plan and layout of the irrigation canal system proposed in the Report were accepted by MAC and the Kilimanjaro Authorities.
- (3) MAC explained that a water users' organization could be established by farmers under existing regulations and by-laws, and requested the JICA Study Team to take into account this in preparing an O & M plan of the Project. The JICA Study Team agreed to this request.
- (4) It was confirmed by MAC that the Irrigation Department of MAC should be an executing agency for the implementation of the Project.



- (5) MAC suggested that public meetings would better be held separately for men and women to give more opportunities to women for their utterance. In response, the JICA Study Team stated that it would ask the Kilimanjaro Authorities to decide procedures of public meetings through discussions with villages concerned, taking duly into consideration the MAC's suggestion.
- (6) MAC requested the JICA Study Team to make a study on provision of grazing areas in the Project area, especially in Mtakuja area. The JICA Study Team replied that such a study would be executed using available data and through discussions with the relevant agencies.
- (7) It was confirmed that, since a water right on the Kikuletwa River would be essential for the project formulation, MAC in collaboration with the Kilimanjaro Authorities would make its utmost efforts to obtain it from the Pangani Basin Authority in due time.
- (8) MAC requested that mini-hydropower development mentioned in the Report should be treated as part of the rural development and be further studied in order to make the Project more viable economically. The JICA Study Team agreed to forward this request to the JICA headquarters.
- (9) The JICA Advisory Team asked MAC about possibility of obtaining farmers' agreement on payment of water charge which would be used for O & M of the project facility. MAC replied that it would be a common practice to obtain the agreement from farmers concerned prior to the commencement of the project implementation.



LIST OF PARTICIPANTS

Tanzania Side

1. Ministry of Agriculture and Cooperatives

Ms. Elda Makoye	Ag. Principal Secretary
Ms. R.A. Kweka	Ag. Assistant Commissioner, Irrigation
Mr. J.S. Lugaganya	Economist, Desk Officer for Japan

2. Kilimanjaro Authorities

Mr. G.R. Moshi	Director, KADP, Kilimanjaro
Mr. L.R. Daluti	Zonal Irrigation Engineer, Kilimanjaro

Japanese Side

1. Advisory Team :

JICA Headquarters (Japan)

Mr. Kazutomo Iihara	Coordinator
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JICA Tanzania Office

Mr. Erito Uchiyama	Assistant Resident Representative
Ms. Deborah Sungusia	Programme Officer

2. JICA Study Team :

Mr. Yusaku Toya	Leader
Mr. Hitoshi Shimazaki	Irrigation and Drainage Engineering
Mr. Takashi Yamazaki	Rural Sociology/Farmer's Organization



添付資料- 8

第 4 回技術運営委員会協議議事録

MINUTES OF TECHNICAL STEERING COMMITTEE FOR THE
FEASIBILITY STUDY ON LOWER MOSHI INTEGRATED
AGRICULTURE AND RURAL DEVELOPMENT PROJECT

THE FOURTH TECHNICAL STEERING COMMITTEE MEETING

Date: 9th January, 1998

Venue: KAIOP Meeting Room, Moshi.

Members Attendants

1. Mr.G.M. Kalinga -Ag. Assistant Commissioner
Irrigation Division (Chairman)
2. Mr.G.R. Moshi -Director RADD (member)
3. Mr.R.L. Daluti -Zonal Irrigation Engineer,
Kilimanjaro (member)
4. Mr.J.S. Lugaganya-Economist, Ministry of Agriculture
and Cooperative (member)
5. Mr.H.Z.Riva -Regional Planning Officer, Kilimanjaro
(member)
6. Mr.Y. Toya -Team Leader, JICA Study Team (member)
7. Mr.H. Shimazaki -JICA Study Team (member)
8. Mr.I. Igawa -JICA Study Team (member)
9. Mr.N. Shimizu -JICA Study Team (member)
10. Mr.B.N. Adhikary -JICA Study Team (member)
11. Mr.R. Isogai -JICA Study Team (member)
12. Mr.S. Ando -JICA Study Team (member)
13. Mr.T. Yamazaki -JICA Study Team (member)

Members Absent

1. Mrs. C.A.A. Sonyi -Principal Economist - Planning
Commission (member)
2. Mr. Mayungi -NEMC, Vice President's Office (member)

Invited Members in Attendance

1. Mr.P.O. Chikira - Regional Administrative Secretary
Kilimanjaro
2. Mr.J.Z. Mahenda - District Administrative Secretary,
Moshi.

4. Mr. A. I. Shayo - Ag. Regional Water Engineer,
Kilimanjaro
5. Mr. A. C. J. Temba - Ag. RALDO Kilimanjaro.
6. Mr. Raymond Mushi - District Commissioner, Hai.
7. Mr. M. Ottaru - Chairman, CHAWAMPU
8. Mr. B. A. Nyabugege - Irrigation & Drainage Engineer, TPC
9. Mr. V. M. H. Naro - Senior Hydrologist, Water Office
10. Mr. S. E. Matem - Counterpart, JICA Study Team
11. Mr. J. E. Ringo - Counterpart, JICA Study Team
12. Mr. P. Ngowi - Counterpart, JICA Study Team
13. Mr. D. R. Kimicho - Counterpart, JICA Study Team
14. Mr. B. D. Mriha - Counterpart, JICA Study Team
15. Mr. E. G. Mallya - Counterpart, JICA Study Team
16. Mr. A. B. Matungwa - Counterpart, JICA Study
17. Mrs. L. W. Riwa - Economist, Reg. Commissioner's Office
18. Mr. R. J. Shayo - Principal KATC
19. Mr. N. Koibuchi - Team Leader KATC
20. Mr. S. Sugawara - JICA Expert, KADP.
21. Hon. G. J. Ngotolainyo - Member of Parliament for Moshi
Rural Constituency

1:0 Opening of the Meeting

The Chairman welcomed the members of the Fourth Technical Steering Committee Meeting wishing them a Happy New 1998. Having said that he also thanked them for attending. Before opening the meeting the Chairman requested the members and invitees to make self introduction.

1:1 Approving the Agenda

The Chairman asked the members to read the agenda and approve it. Since there were no comments, the agenda was adopted.

1:2 Reading and Approving the Minutes of the Previous Meeting held on the 14th November, 1997.

The Secretary read out the minutes, while reading a few corrections were made as follows:

(1) On Page 4: Minute 1:3:2: Water Right Application
First sentence, second line the 5th word "alread" should read "already". Same line between words Pangani and Water should insert the word "Basin".

(2) On Page 4: Minute 1:3:2: Para 1.
Third line between words Pangani and Water should insert the word "Basin"

(3) On Page 7: Min: 1:4:9 Water Abstraction from Rikuletwa River
Alternative 1 (a) line three words "it is has" should read as "it has"; The word "is" should be deleted.
(b) Fifth line down: should read "If" words "given an IRR of 15%" should be deleted.

1:3: Matters arising from the Minutes of 14/11/1997.

1:3:1 Budget for the Project

The meeting was informed that neither the Ministry of Agriculture and Cooperatives nor the Regional Authority has managed to secure funds for the Budget.

After some lengthy discussions, it was agreed that, since the project is still continuing, the need for the budget is still valid. It was also learned that in all irrigation projects in Tanzania it is the Government Policy that the beneficiaries should be involved and contribute their efforts in kind or monetary in order to assure sustainability.

After a lengthy discussion it was agreed that a letter should be written to CHAWAMPU advising them on the need for their contribution as beneficiaries and also the Ministry of Agriculture and Cooperatives will include this project in the 1998/99 budget.

1.3.2 Water Right for the Project

The meeting was informed that, a new application form was prepared according to requirements of the Pangani Basin Water office which included the proposed mini-hydro-power. This application form was handed to Pangani Basin Water Office.

The PBWO in reply to the application, sent a letter of Ref. PBWO/LM/8 of 14th December, 1997 to the Secretary indicating that they have already sent for comments on the request to affected "persons" for their technical comments which will determine granting or not granting of the Water Right. These are TPC, TANESCO, DED HAI, SIMANJIRO, respective District Irrigation Engineers, NEMC and RWE - MOSHI.

The meeting was also informed that RWE - MOSHI and TPC have already sent their comments and that TANESCO Head Office are working on the request. After a lengthy discussion the meeting agreed as follows:-

-That Ministry of Agriculture and Cooperatives will follow up with NEMC and TANESCO Head Office to find out the status of their respective comments.

-RAS Kilimanjaro will follow up with RAS Arusha requesting him to let us know the status of comments from Simanjiro. District Commissioners from HAI and MOSHI were requested to followup comments from their District Executive Director and District Irrigation Engineers respectively.

-The meeting wanted to know whether there is a time limit for the comments from the affected persons to enable the PBWO to work on the application.

The sub-committee was given the task to follow this up with the PBWO.

1:4 Presentation and Discussion of Progress Report II

The Study Team Leader presented the Progress Report II skillfully for some 50 minutes after which the members were allowed to make their comments.

1:4:1 Preliminary Evaluation

The study team stated that through this preliminary evaluation, the project is found economically feasible as follows;

The results show that the existing Lower Mochi Project shows the highest EIRR, with or without mini-hydro-power, followed by the new extension area. The Expanded area shows low EIRR due to small incremental benefits.

1:4:2 Discussion of the Report:

Members of the Committee asked for clarifications on specific aspects of the report and the Study Team made clarifications accordingly.

1:4:3 Mini-Electricity Supply:

The meeting was informed that the final decision as to who will manage it has not been made.

- After a lengthy discussion, the meeting agreed that:
- let the Mini-hydro electricity plants be established.
 - The power that will be produced will be connected to the National Grid and therefore increasing power supply.

1:4:4 Involvement of Farmers:

The meeting was informed that some Farmers meetings have been conducted successfully and one final meeting is due to be held in Kaloleni village on the 10th of January 1998.

AOB:

A request was made that members of Parliament within the project area be given copies of necessary documents.

Closing:

The Chairman thanked the Team Leader and all the experts including Tanzanian Counterpart personnel, who worked tirelessly to accomplish this important task.

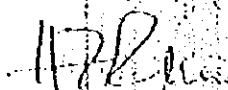
He closed the meeting at 3:00p.m.



G.M. KALINGA,

CHAIRMAN

TECHNICAL STEERING COMMITTEE



H.Z. RIWA

SECRETARY

TECHNICAL STEERING COMMITTEE

添付資料- 9

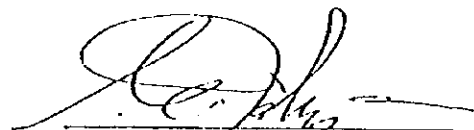
プログレス・レポート-IIに係る協議議事録

MINUTES OF MEETING
FOR
THE PROGRESS REPORT-II
ON
THE FEASIBILITY STUDY
FOR
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT
IN
THE UNITED REPUBLIC OF TANZANIA

14 JANUARY 1998



Lt. Col. T.P. MAGERE
Principal Secretary
Ministry of Agriculture and Cooperatives
The United Republic of Tanzania



Mr. Yusaku TOYA
Leader
The Study Team
Japan International Cooperation Agency

MINUTES OF MEETING
FOR
THE PROGRESS REPORT-II
ON
THE FEASIBILITY STUDY
FOR
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT

The JICA Study Team submitted twenty (20) copies of the Progress Report - II (the Report) to the Ministry of Agriculture and Cooperatives (MAC) on 7th January 1998 in accordance with the Scope of Work for the Feasibility Study on Lower Moshi Integrated Agriculture and Rural Development Project (the Project) in the United Republic of Tanzania agreed upon between MAC and JICA on 31 October, 1996.

A meeting was held on 13 January 1998 at the conference room of MAC among MAC, Kilimanjaro Authorities, JICA Tanzania Office and JICA Study Team. The meeting was started with an address by Lt. Col. T.P. Magere, Principal Secretary of MAC, and then Mr. Y. Toya, Leader of the JICA Study Team, presented the highlights of the Report and also, explained the discussion results in the 4th Technical Steering Committee Meeting held on 9 January 1998 at KADP conference room. These were followed by discussions on the contents of the Report among the participants (see attachment). The following are the results of the discussions:

(1) The Contents of the Report

In principle, the contents of the Report were accepted by MAC and Kilimanjaro Authorities.

(2) Effect by Water Abstraction

MAC asked the JICA Study Team about the effect of water abstraction to the Project on the concerned water consumers/stakeholders in the downstream of the Kikuletwa river such as TPC, TANESCO, villages, etc. The JICA Study Team explained that the effect of water abstraction from the Kikuletwa river was examined in detail through a water balance study, and confirmed that there would be virtually no adverse effect on their water use.



(3) Electricity Consideration

MAC asked the JICA Study Team about the supply plan of the electricity generated by mini-hydropower stations. The JICA Study Team replied that the generated electricity was planned to be sold to TANESCO by providing transmission lines between the proposed power plants and the Kiyungi sub-station.

(4) Silts in River Water of the Kikuletwa

MAC asked the JICA Study Team about problems which might occur due to silts contained in the river water of the Kikuletwa. The JICA Study Team answered that in the dry season, no silting would be observed since the Kikuletwa river originates from several springs, and in the rainy season, silting would be settled in the reservoir to be created by constructing a dam on the Kikuletwa river.

(5) Provisional Water Right

It was confirmed that MAC took all necessary actions on the water right issues and was waiting for the answer from the Pangani Basin Water Office (PBWO), and PBWO already sent an official letter to such offices/persons as TPC, TANESCO, DED HAI, SIMANJIRO, respective District Irrigation Engineers, NEMC and RWI-MOSHI for their comments on granting the water right to the Project. The JICA Study Team requested MAC to follow up and settle this water right issue as early as possible.

(6) Construction Schedule

MAC requested the JICA Study Team to make further studies on the construction period, since the proposed 7.5 year-period in the Report was considered too long. The JICA Study Team agreed to this request.

(7) Urgent Implementation of the Project (at least Phase-I works)

MAC expressed its intention to implement the Project (at least Phase-I works) as early as possible, since the water shortage of the existing Lower Moshi area reached its critical point and therefore required urgent solution. The JICA Study Team promised to convey the MAC's intention to the JICA Headquarters.



LIST OF PARTICIPANTS

Tanzania Side

1. Ministry of Agriculture and Cooperatives

Lt.Col.T.P.Magere

Principal Secretary

Mr.S.A.N. Muro

Ag. Commissioner,Agriculture and
Livestock Division

Mr.G.M. Kalinga

Ag. Assistant Commissioner, Irrigation

Mr.E.M.Achayo

Economist, Principal Secretary Office

Mr.J.S. Lugaganya

Economist, Desk Officer for Japan

2. Kilimanjaro Authorities

Mr. G.R. Moshi

Director, KADP, Kilimanjaro

Mr. L.R. Daluti

Zonal Irrigation Engineer, Kilimanjaro

Japanese Side

1. JICA Tanzania Office :

Mr. Erito Uchiyama

Assistant Resident Representative

Ms. Deborah Sungusia

Programme Officer

2. JICA Study Team :

Mr. Yusaku Toya

Leader

Mr. Hitoshi Shimazaki

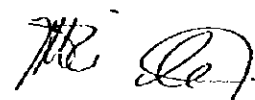
Irrigation and Drainage Engineering

Mr. Takashi Yamazaki

Rural Sociology/Farmer's Organization

Mr. Takuya Igawa

Water Resources/Hydrology



添付資料-1 0

第5回技術運営委員会協議議事録

**MINUTES OF TECHNICAL STEERING COMMITTEE FOR THE
FEASIBILITY STUDY ON LOWER MOSHI INTERGRATED
AGRICULTURE AND RURAL DEVELOPMENT PROJECT**

THE FIFTH TECHNICAL STEERING COMMITTEE MEETING

Date: 23rd April, 1998.

Venue: KAIDP Meeting Room, Moshi

Members Attendants:

1. Mr. G.M. Kalinga - Acting Assistant Commissioner,
Irrigation Division (Chairman)
2. Mr. H.Z.Riwa - Regional Planning Officer,
Kilimanjaro (Secretary)
3. Mr. G.R. Moshi - Director KADP
4. Mr. J.S.Lugaganya - Ministry of Agriculture, DSM.
5. Mrs.C.A.A.Sonyi - Principal Economist (Planning
Commission)
6. Mr. R.L.Daluti - Zonal Irrigation Engineer,
Kilimanjaro.
7. Mr. Y. Toya - Team Leader, JICA Study Team
8. Mr. H. Shimazaki - Member of JICA Study Team
9. Mr. T. Shiraki - Member of JICA Study Team
- 10.Mr. M. Kashiwabara- JICA, Tokyo Headquarters, Japan.

Members Absent

1. Mr. Muyungi - NEMC, Vice Presidents Office

Invited Members in Attendance

1. Mr. N. Koibuchi - Team Leader, KATC.
2. Mr. S. Sugawara - JICA Expert, KADP.
3. Mr. B.D. Mrisha - Counterpart, JICA Study Team
4. Mr. Mathias Minja - For Secretary CHAWAMPU
5. Mr. M. Ottaru - Chairman, CHAWAMPU

6. Mr. V.M.H. Maro - Counterpart, JICA Study Team
7. Mr. Mathew S.Temu - Hydrology Technician, Kilimanjaro
8. Mr. R.J. Shayo - Principal, KATC
9. Mr. D.R.Kimicho - Counterpart, JICA Study Team
10. Mr. M.I.R.Kanyawanah-Ag. Regional Water Engineer
11. Mr. A.L.J. Temba - Ag. RALDO, Kilimanjaro
12. Mr. V.M. Sekoo - For General Manager, TPC
13. Mr. E.G.Mallya - Counterpart, JICA Study Team

Invited Members who did not attend:

1. District Commissioner, Moshi
2. District Commissioner, Hai
3. Regional Manager, TANESCO
4. Regional Cooperative Officer, Kilimanjaro
5. National Coordinator, UNDP.

Secretariat:

1. Mr. G.M.Lengwana - Planning Officer, Regional
Commissioner's office, Kilimanjaro
2. Mrs. L.W. Riwa - Economist, Regional Commissioners
Office, Kilimanjaro.

1.0 Opening of the Meeting

The Fifth Technical Steering Committee Meeting was opened by the Chairman, Mr. G.M. Kalinga, Acting Assistant Commissioner, MAC, at 10:00 AM.

2.0 Approval of the Agenda

The Agenda for the Meeting was agreed by all the members, and thus the Meeting commenced based on the Agenda.

3.0 Approval of the Minutes of the Fourth Technical Steering Committee Meeting held on January 9, 1998.

The Secretary read out the Minutes of the Fourth Technical Steering Committee Meeting. After some

corrections on word spelling, the Minutes was signed by the Chairman and the Secretary.

4.0 Matters Arising from the Minutes of the Fourth Technical Steering Committee Meeting.

As for the provisional water right for the Project, the Secretary explained that all the relevant agencies had sent their comments to the Pangani Basin Water Office by April 9, 1998, and the Board of Directors' Meeting was scheduled to be held toward the end of April 1998. The Secretary was optimistic that the provisional water right would be granted for the Project, judging from the information obtained so far, but the offered water quantity especially in the dry season would be still in discussion.

5.0 Presentation and Discussion of Draft Final Report

Mr. Y. Toya, Team Leader of JICA Study Team for the Project, presented the contents of the Draft Final Report by saying that the Project is located in the south of Moshi Town. It covers an area of 8.444ha in gross (study area) and crops to be grown include paddy and Alfa alfa.

5.1 Requested Water Right

Requested Water Right is 9m³/sec. in the rainy season and 5m³/sec. in the dry season. The development plan of the Project was formulated, assuming that this water right would be granted to the Project.

5.2 Rural infrastructure

The planned Road for rehabilitation and improvement are 9.7km in total length, consisting of 3.8km for the Expanded area, 1.0km for the New Extension area and 4.9km for the Diversion channel route.

5.3 Domestic Water Supply

67 numbers of water facilities for domestic use and 20 livestock troughs will be established.

5.4 Operational & Maintenance and Water Management Plan

The project works will be implemented in two phases, commencing from 1999 and to be completed by June 2003. The O&M works and water management of the Project are proposed to be carried out jointly by KADP and CHAWAMPU in stage I and KADP and WUAs/WUF in stage II.

5.5 Project Cost

The total project cost is estimated at US\$53.6million. The direct costs of the phase I works are estimated at US\$ 19.0million and that of the Phase II works at US\$ 15.6million, excluding administration cost, contingencies, etc., amounting to US\$19million.

5.6 Intangible Benefits

In addition to the direct benefits from the increase of agricultural production, the Project will bring about the following intangible benefits:

- Improvement of farm and access roads;
- Improvement of domestic water supply for villagers and animals;
- Improvement of living condition;
- Increasing of employment opportunity;
- Contribution to the national food security;
- Improvement of social status of women

5.7 Small Scale Hydro-Power Development Plan

It is proposed to provide two small scale hydropower stations in the two phases of the project implementation.

5.8 Main Agenda in the Meeting held in Tokyo

The meeting was informed by Mr. Kashiwabara, staff of JICA Headquarters, that a meeting was held in Tokyo to discuss the Draft Final Report among Ministry of Foreign Affairs, Ministry of Agriculture, JICA and the Study Team, and one of main agenda in the meeting was Water Right issue on the Project.

5.9 Discussion of Final Draft Report

Members of the Committee asked for clarification on some specific aspects of the Report and the Study Team made clarifications accordingly.

5.9.1 Environmental Conservation Plan

There was a question as to whether the mitigation measures against the possible negative impacts were valued and the costs thereof were included in the Project cost.

The Study team clarified that mitigation measures (except for use of solid waste) were taken into account in preparing the designs of the Project facilities and, therefore, the required costs thereof were already included in the Project costs.

The study Team further clarified that the costs required for "the use of solid waste such as rice husks" e.g. manufacturing briquettes from husks were not included in the Project costs, since this should be treated separately from the Project works.

5.9.2 Resettlement of villages along Diversion Channel

A member requested a clarification on the expected extent of resettlement of villagers along the proposed Diversion Channel.

The Study Team clarified that the route of the proposed Diversion Channel was determined so as not to demolish the existing houses and other major facilities and, therefore, no resettlement would be required.

5.9.3 Compensation for Crops

A member requested to know if compensation of crops in the area to be occupied by the Diversion Channel was considered. The Study Team replied that the necessary compensation costs were not included in the Project cost.

5.9.4 Transfer Program of Agricultural Support Services

The meeting was informed that there would be no RALDO after restructuring GOT and, therefore, the proposed

Extension and Training Programs should be transferred to Zonal Irrigation Engineer (ZIE) and DALDO.

5.9.5 Institutional Development Plan and O&M

A question was raised by a member as to the proposal that Water Users' Association (WUAs) should be established separately from CHAWAMPU and those WUAs should have a mandatory power on their membership.

After a lengthy discussion, the Committee concluded that further discussions would be made among MAC, Kilimanjaro Authority, CHAWAMPU and other concerned authorities to reach a final conclusion before the commencement of the Project implementation.

6.0 AOB:

This is the last Technical Steering Committee Meeting for the Feasibility Study of the Lower Moshi Integrated Agriculture and Rural Development Project. Upon the commencement of the Project implementation, a Project Implementation Committee would be newly formed.

7.0 Closing

The Chairman thanked all the members for their contribution and that all the suggestions will be incooperated in the Final Report.

Mr. Toya on his side thanked all the sides Tanzanian/Japan for their contributions.

The Meeting was closed at 2:50pm.



G.M. KALINGA,
CHAIRMAN,
TECHNICAL STEERING
COMMITTEE



H.Z. RIWA,
SECRETARY,
TECHNICAL STEERING
COMMITTEE

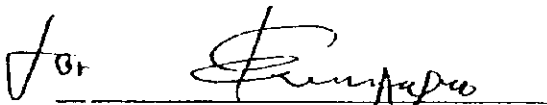
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添付資料- 1 1

ドラフトファイナル・レポートに係る協議議事録

MINUTES OF MEETING
FOR
THE DRAFT FINAL REPORT
ON
THE FEASIBILITY STUDY
FOR
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT
IN
THE UNITED REPUBLIC OF TANZANIA

28 APRIL 1998

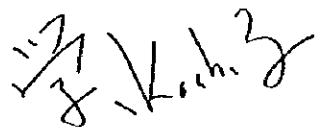


Lt. Col. T.P. MAGERE
Permanent Secretary
Ministry of Agriculture and Cooperatives
The United Republic of Tanzania



Mr. Yusaku TOYA
Leader
The Study Team
Japan International Cooperation Agency

Witnessed by



Mr. Manabu KASHIWABARA
Leader
The Advisory Team
Japan International Cooperation Agency

MINUTES OF MEETING
FOR
THE DRAFT FINAL REPORT
ON
THE FEASIBILITY STUDY
FOR
LOWER MOSHI INTEGRATED AGRICULTURE AND RURAL
DEVELOPMENT PROJECT

The JICA Study Team submitted thirty (30) copies of the Draft Final Report (the Report) to the Ministry of Agriculture and Cooperatives (MAC) on 16th April 1998 in accordance with the Scope of Work for the Feasibility Study on Lower Moshi Integrated Agriculture and Rural Development Project (the Project) in the United Republic of Tanzania agreed upon between MAC and JICA on 31 October, 1996.

A meeting was held on 28th April 1998 at the conference room of MAC among MAC, Kilimanjaro Authorities, JICA Tanzania Office, JICA Advisory Team and JICA Study Team. The meeting started with an address by Mr. E.J. Lujuo, Ag. Commissioner for Agriculture and Livestock Development on behalf of the Permanent Secretary of MAC, and then Mr. Y. Toya, Leader of the JICA Study Team, presented the highlights of the Report and also, explained the discussion results in the 5th Technical Steering Committee Meeting held on 23rd April 1998 at KADP conference room. These were followed by discussions on the contents of the Report among the participants (see attachment). The following are the results of the discussions:

(1) The Contents of the Report

In principle, the contents of the Report were accepted by MAC and Kilimanjaro Authorities.

(2) Provisional Water Right

MAC stated that the Provisional Water Right for the Project would be discussed in the Board of Directors' meeting scheduled to be held towards the end of April 1998. The JICA Study Team requested MAC to follow up the meeting and settle this Water Right issue as early as possible. MAC agreed to this request, and stated that it was optimistic that the Project would be granted the Provisional Water Right.



(3) Research on New Varieties of Paddy

MAC stated that new varieties of paddy in addition to IR54 should be researched and introduced into the Project as early as possible. The JICA Study Team explained that research on new varieties of paddy is very important, therefore experimental programme should be worked out as indicated in the Report.

(4) Urgent Implementation of the Project

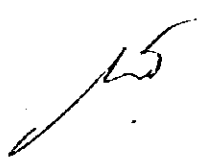
MAC gave its expression for urgent implementation of the Project, taking into consideration the severe water shortage of the existing Lower Moshi Project area.

(5) Further Comments on the Report

MAC agreed that more comments on the Report should be sent to the JICA Headquarters by 10th May 1998 through the JICA Tanzania Office, Dar es Salaam.

(6) Treatment of the Report

JICA offered MAC that the Final Report would be available to any person who is interested in the Study. MAC agreed to this offer.



LIST OF PARTICIPANTS

Tanzania Side

1. Ministry of Agriculture and Cooperatives

Mr.E.J.Lujuo	Ag. Commissioner for Agriculture and Livestock Development (Chairman)
Mr.G.M. Kalinga	Ag. Assistant Commissioner, Irrigation
Mr.E.M.Achayo	Economist, Permanent Secretary Office
Mr.J.S. Lugaganya	Economist, Desk Officer for Japan

2. Kilimanjaro Authorities

Mr. G.R. Moshi	Director, KADP, Kilimanjaro
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Japanese Side

1. Advisory Team :

JICA Headquarters (Japan)

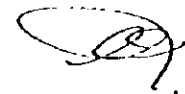
Mr.Manabu Kashiwabara	Leader
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JICA Tanzania Office

Mr. Erito Uchiyama	Assistant Resident Representative
Ms. Deborah Sungusia	Programme Officer

2. JICA Study Team :

Mr. Yusaku Toya	Leader
Mr. Hitoshi Shimazaki	Irrigation and Drainage Engineering
Mr. Takashi Shiraki	Agriculture/Land Use



JICA