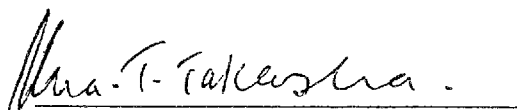


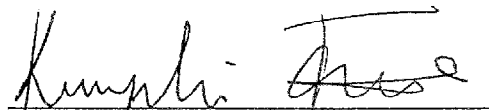
**THE SCOPE OF WORK
FOR
THE FEASIBILITY STUDY
ON THE LOWER MUNYATI RIVER BASIN
AGRICULTURAL DEVELOPMENT PROJECT
IN
THE REPUBLIC OF ZIMBABWE**

**AGREED UPON
BETWEEN
MINISTRY OF LANDS AND AGRICULTURE
AND
JAPAN INTERNATIONAL COOPERATION
AGENCY**

HARARE, 15 APRIL 1998



Dr. T. Takavarasha
Permanent Secretary
Ministry of Lands and Agriculture,
The Republic of Zimbabwe



Mr. Kazuyuki TSURUMI
Leader,
Preparatory Study Team,
Japan International Cooperation Agency

I. INTRODUCTION

In response to the request of the Government of the Republic of Zimbabwe (hereinafter referred to as "GOZ"), the Government of Japan (hereinafter referred to as "GOJ") has decided to conduct the Feasibility Study on the Lower Munyati River Basin Agricultural Development Project (hereinafter referred to as "the Study"), in accordance with the relevant laws and regulations in force in Japan.

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

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 the Feasibility Study on the Lower Munyati River Basin Agricultural Development Project, in order to formulate the irrigation and drainage plan and the agricultural development plan for the Communal Area and the Resettlement Area in the Lower Munyati River Basin,
2. to select priority project area(s) and to formulate the irrigation canal construction plan and the agricultural development plan for the priority project area(s), and
3. to carry out, in the course of the Study, technology transfer to counterpart personnel of Zimbabwe.

III. STUDY AREA

The Study area shall cover

1. Kudu Dam and two main irrigation canals, and
2. approximately 14,700 ha of proposed irrigation land in the Communal Area and Resettlement Area

in the lower Munyati River Basin. (See location map attached as ANNEX I)

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IV. SCOPE OF THE STUDY

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

1. Phase I

1-1. to collect and review;

- Master Plan on "The Lower Munyati Basin Agricultural Development"
- relevant data and information
- relevant plan(s) and project(s)

1-2. to collect and analyze the following additional data and information through the field survey and interviews;

(1) natural condition including,

- location, acreage and topography
- meteorology and hydrology
- geology
- soils
- water quality
- vegetation
- others

(2) socio-economic conditions including,

- economic indices (population, birthrate, food situation, etc.,)
- educational system
- social infrastructure
- gender
- others

(3) agricultural and agro-economic conditions including,

- present land use
- land tenure
- farming practices (cultivation technique, cropping pattern, yield, agricultural machinery, etc.)
- research activities
- agricultural economy
- post-harvest and processing system
- marketing system and analysis
- others

(4) water resources

- existing water resources
- hydrology of the Lower Munyati River Basin

- (5) agricultural and rural infrastructure
 - existing dam
 - irrigation and drainage facilities
 - farm road networks
 - post-harvest and marketing system
 - rural water supply system
 - construction materials
 - others
- (6) agricultural supporting service
 - farmer's organizations
 - extension service (extension worker, farmers' recognition levels of irrigation)
 - supply of seed, fertilizer and chemicals, agricultural machinery including spare parts
 - credit services
 - others
- (7) operation and maintenance, and
 - water management organizations
 - customs of water use, water right, water charge, etc.
 - others
- (8) environmental aspects
 - natural environmental aspects
 - social environmental aspects

1-3. to formulate the Agricultural Development Plan in the Study area which includes the followings;

- (1) irrigation and drainage plan
- (2) land use plan
- (3) agricultural technology improvement plan
- (4) cultivation and extension plan
- (5) farmers supporting service plan
- (6) farmer's organization plan
- (7) marketing plan
- (8) water resource development plan
- (9) environment conservation plan
- (10) project implementation plan

1-4. to select the priority area(s) for the detailed study

1-5. to prepare a topographic map(s) at scale 1/5,000 for designing of main irrigation canal(s)

1-6. to prepare a topographic map(s) at scale 1/5,000 for the priority area(s)

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2. Phase II

- 2-1. to review and design Kudu Dam and main irrigation canal(s)
- 2-2. to estimate the Agricultural Development Plan in the Study area cost and benefits
- 2-3. to evaluate the Agricultural Development Plan in the Study area
- 2-4. to prepare the recommendations for the Agricultural Development Plan in the Study area
- 2-5. to conduct the field survey to collect supplementary data and information on the priority area(s)
- 2-6. to formulate of the optimum Agricultural development plan for the priority area(s), which includes the followings;
 - (1) farmers support plan
 - (2) agricultural and rural infrastructure development plan
 - (3) farmers organization plan
 - (4) agriculture and extension plan
 - (5) farming and planting program
 - (6) irrigation and drainage plan
- 2-7. to estimate the priority project(s) cost and benefit, and
- 2-8. to prepare the recommendations for the priority project(s)

V. STUDY SCHEDULE

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

VI. REPORTS

JICA shall prepare and submit to the GOZ the following reports in English


1. Inception Report

Twenty (20) copies in English at the commencement of the Phase I field work.

2. Progress Report I

Twenty (20) copies in English at the end of the Phase I field work.

3. Interim Report


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Twenty (20) copies in English at the commencement of Phase II field work.

4. Progress Report II

Twenty (20) copies in English at the end of the first part of Phase II field work .

5. Draft Final Report

Thirty (30) copies in English after the home office work in Japan. The GOZ will provide JICA with its comments on the Draft Final Report within one (1) month after receipt of the Draft Final Report.

6. Final Report

Fifty (50) copies in English within two (2) months after receipt of the GOZ's comments on the Draft Final Report.

VII. UNDERTAKING OF THE GOVERNMENT OF ZIMBABWE

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

1-1. to secure the safety of the Japanese study team,

1-2. to permit the members of the Japanese study team to enter, leave and sojourn in Zimbabwe for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees,


1-3. to exempt the members of the Japanese study team from taxes, duties, fees and any other charges on equipment, machinery and other materials brought into Zimbabwe for the conduct of the Study,

1-4. 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,

1-5. to provide necessary facilities to the Japanese study team for the remittance as well as utilization of the funds introduced into Zimbabwe from Japan in connection with the implementation of the Study,

1-6. to secure permission for entry into private properties or restricted areas for the implementation of the Study,

1-7. to secure permission for the Japanese study team to take all data and documents


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(including photographs and maps) related to the Study out of Zimbabwe to Japan and

- 1-8. to provide medical services as needed. Its expense will be chargeable on the members of the Japanese study team.
2. The GOZ shall bear claims, if any arises, against the members of the Japanese study team resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Japanese study team.
3. The Ministry of Lands and Agriculture (hereinafter referred as "MOLA") shall act as the coordinating body in relation with other governmental organizations and non-governmental organizations concerned for smooth implementation of the Study. MOLA shall appoint the Department of Agricultural, Technical and Extension Services and also the Ministry of Rural Resources and Water Development shall appoint the Department of Water Development as counterpart agencies to the Japanese study team.
4. The GOZ shall, at it's own expenses, provide the Japanese study team with the following, in cooperation with other organizations concerned ;
 - 4-1. available data and information related to the Study,
 - 4-2. counterpart personnel,
 - 4-3. suitable office spaces with necessary equipment and furniture in Harare and Kadoma, and
 - 4-4. 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 Japanese study team to Zimbabwe, and
2. to pursue technology transfer to the Zimbabwe counterpart personnel in the course of

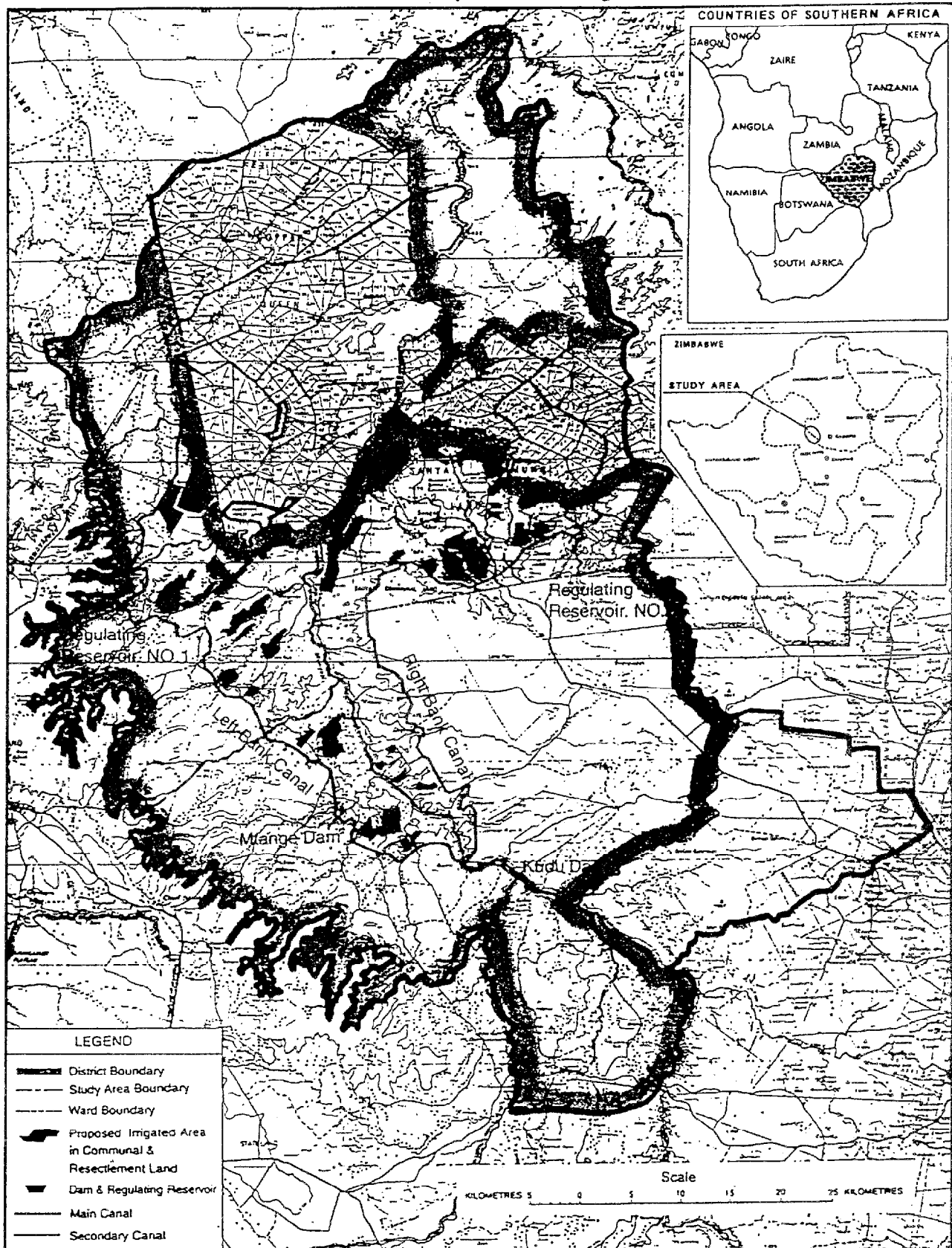
the Study.

IX. CONSULTATION

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

ANNEX I

Location Map of Study Area



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TENTATIVE SCHEDULE

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Item																		
Works in Zimbabwe																		
Works in Japan																		
Phase	Phase 1						Phase 2											
Reports	▲Ic/R	▲P/R(1)					▲It/R	▲P/R(2)					Df/R▲	◎	▲F/R			

(Remarks)

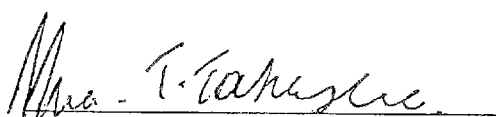
- Ic/R : Inception Report
 P/R (1) : Progress Report (I)
 It/R : Interim Report
 P/R (2) : Progress Report (II)
 Df/R : Draft Final Report
 F/R : Final Report
 ◎ : Comments on Df/R by Zimbabwe side

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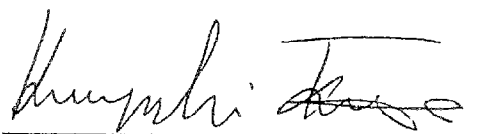
**MINUTES OF MEETING
ON
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Ministry of Lands and Agriculture,
The Republic of Zimbabwe



Mr. Kazuyuki TSURUMI
Leader,
Preparatory Study Team,
Japan International Cooperation Agency

The preparatory study team (hereinafter referred to as "the Team") organized by Japan International Cooperation Agency (hereinafter referred to as "JICA"), and headed by Mr. Kazuyuki Tsurumi, visited the Republic of Zimbabwe from 4 April to 26 April, 1998 for the purpose of discussing and exchanging views in relation to the Scope of Work for the Feasibility Study on the Lower Munyati River Basin Agricultural Development Project in the Republic of Zimbabwe (hereinafter referred to as "the Study") with the officials concerned of the Government of the Republic of Zimbabwe (hereinafter referred to as "GOZ").

As a result of the discussions, the GOZ and the Team mutually agreed to the Scope of Work for the Study.

The following Minutes have been prepared to confirm the main issues discussed and matters agreed upon by both sides. The list of participants in a series of meetings is attached as ANNEX.

1. Both sides confirmed that the Ministry of Lands and Agriculture (hereinafter referred to as "MOLA") would act as the coordinating body in relation with other governmental organizations and non-governmental organizations concerned for smooth implementation of the Study, and that MOLA would appoint the Department of Agricultural Technical and Extension Services (hereinafter referred to as "AGRITEX") and also the Ministry of Rural Resources and Water Development would appoint the Department of Water Development (hereinafter referred to as "DWD") as counterpart agencies to the Japanese team to be dispatched for the Study (hereinafter referred to as "the Study Team").
2. The Team requested that AGRITEX and DWD should collaborate closely for the implementation of the study. AGRITEX and DWD accepted the request.
3. The GOZ requested that Small Scale Commercial Areas should be included in the Study area.

The Team explained that if the Small Scale Commercial Areas were included in the Study area, the Study area would be too large for a feasibility study.

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Both sides confirmed that the study would be carried out mainly aiming at agricultural development in the Communal and Resettlement Areas through the introduction of an irrigation system by Kudu Dam.

As a result, the GOZ agreed that the Study area should comprise three main components, that is Kudu Dam, two(2) main canals and the proposed irrigated land in Communal and Resettlement Areas of the Scope of Work.

4. Both sides recognized the importance of taking environmental aspects into consideration, and therefore confirmed that an Environmental Impact Assessment (EIA) would be carried out at an early stage of the Study and that its results would be reflected in the Study, i.e. the project would be modified to mitigate any adverse impacts on the environment.
5. Both sides confirmed that the GOZ would be responsible for the planning and implementation of displacement of the inhabitants and allocation of farm-lands.
6. Both sides confirmed that the medium-size dams proposed as one of the options in the Master Plan would not be considered in the Study. However, if it is concluded that any of those dams would play an important role as a part of the irrigation system by Kudu Dam, such medium-size dam(s) would be included in the Study.
7. For the smooth and effective implementation of the Study, both sides agreed upon the need for establishment of an Inter-Ministerial Committee consisting of representatives of the following ministries and organizations before the commencement of the Study.
 - (1) Ministry of Lands and Agriculture (Chairman)
 - (2) Ministry of Rural Resources and Water Development
 - (3) Ministry of Finance
 - (4) Ministry of Mines, Environment and Tourism
 - (5) Ministry of Local Government and National Housing

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- (6) National Economic Planning Commission
- (7) Ministry of National Affairs, Employment Creation and Cooperatives
- (8) JICA Zimbabwe Office, and
- (9) The Study Team

Basically, it is expected that this Committee will meet when the Study Team comes to explain the reports.

- 8. It was confirmed that a map at the scale of 1/5,000 did not exist to cover the Study area. As a result, both sides agreed that the work for topographic mapping would be conducted as a part of the Study to cover the main canals and the priority project area(s).
- 9. The GOZ promised to assign the necessary number of counterpart personnel for each field to the Study Team from the ministries concerned.
- 10. The GOZ expressed difficulties in providing necessary vehicle(s), photocopy machine, personal computer and facsimile to the Study Team and requested JICA to make the arrangements. The Team promised to convey the request to the Government of Japan.
- 11. The GOZ agreed that the Final Report would be made available to any interested party .



LIST OF PARTICIPANTS

【The Ministry of Lands and Agriculture】

Mr. T. Takavarasha	Permanent Secretary
Mr. G. Sithole	Deputy Secretary
Ms. N. Zitsanza	Chief Agricultural Economist
Mr. D. Mfote	Principal Agricultural Economist
Mr. P. Goko	Senior Agricultural Economist

【Department of Agricultural, Technical and Extension Services, MOLA】

Mr. J. Makadho	Director
Mr. R. Chitsiko	Deputy Director
Mrs. N. Chasi	Chief Planning Officer

【Department of Water Development, the Ministry of Rural Resource and Water Development】

Mr. J. H. Choga	Director
Mr. D. S. Durham	Deputy Director
Mr. P. Mashoko	Engineer

【Department of Natural Resources, the Ministry of Mines, Environment and Tourism】

Mrs. Chimbetete	Ecologist (EIA)
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【The Ministry of Finance】

Mr. R. P. Kavhuru	Economist
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【The National Economic Planning Commission】

Mrs. T. Madziva	Economist
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【Preparatory Study Team】

Mr. Kazuyuki Tsurumi	Leader
Mr. Nobuhiro Moriyama	Member
Mr. Masakiyo Kohara	Member




Dr. Koji Yamanaka Member

Mr. Toshio Ogawa Member

Mr. Yoshihisa Masanaga Member

【JICA Expert】

Mr. S. Mitoma Irrigation Specialist, AGRITEX

【JICA Zimbabwe Office】

Ms. Fumiko Nakai

Mr. M. Mandiveyi

Ms.

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