Annex-2

SCOPE OF WORK

FOR

THE MASTER PLAN STUDY

ON

THE INTEGRATED AGRICULTURAL AND RURAL DEVELOPMENT

IN

CENTRAL REGION

IN

THE MONGOLIA

AGREED UPON BETWEEN

THE MINISTRY OF FOOD AND AGRICULTURE

OF

THE MONGOLIA

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

ULAANBAATAR, 17th MARCH, 1994

Mr. Chultemyn Perenlei

General Director,

Economics and International Cooperation

Department,

Ministry of Food and Agriculture

Mr. Yyekka Sasaki

Leader.

JICA Study Team

Mr. Choindongiin Enebish

Deputy Director,

Department of Industrial Trade and Cooperation,

Ministry of Trade and Industry

### I. INTRODUCTION

In response to the request of the Government of Mongolia the government of Japan decided to conduct The Master Plan Study on the Integrated Agricultural and Rural Development in Central Region in the Mongolia (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan.

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

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 formulate a master plan on the agricultural and rural development for Central Region in the Mongolia; and
- 2. To carry out technology transfer to the Mongolian counterpart personnel in the course of the Study.

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#### III. OUTLINE OF THE STUDY

# 1. the Study Area

The Study covers about 238,000km2 in the Central Region in Mongolia (Aimag of Tov. Selenge, Bulgan and Ovorhangai and City of Ulaanbaatar, Darkhan and Erdenet).

# 2. Outline of Study

#### I. Phase I

- 1) Diagnostic Analysis
- 1-1) Collection and Review of Data and Information
  - Natural Condition
  - Socio-economic
  - Agricultural
  - Agricultural-economics
  - Farmer's Organization
  - Agricultural Supporting System
  - Agricultural-Finance
  - Agricultural and Livestock Processing Plants
  - Others

# 1-2) Review of Existing Plan , Existing Examination and Associated Projects

- National Development Plan of the Government
- Agricultural and Livestock Production
- Agricultural Infrastructures in Rural Area
- Administration and Budget System
- · Activities of Other Donor Agency
- Others

# 1-3) Field Survey

- Natural and Social Conditions
- Environment
- Farmer's Economy
- Others

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- 2) Analysis of Development Potential
  - Market Analysis
  - Production and productivity of Agriculture and Livestock
  - Others
- 3) Formulation of the Substance of Development
  - The Frame of Development
  - The Development Schedule
  - Others

#### II Phase II

- 4) Formulation of Master Plan on the Integrated Agricultural and Rural Development
  - Agricultural Administration and Institutional System
  - Agricultural Development
  - Livestock Development
  - Agricultural and Livestock Processing Development
  - Agricultural Market
  - Rurai Infrastructure
  - Farmer's Support System
  - Others
- 5) Selection of the Model Program and Project
- 6) Formulation of Model Program and Project Schedule

Agricultural and Rural Development Project

- Agricultura: Administration and Institutional System Program
- Improvement of Management and Agricultural Technology Development Program
- Others

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#### IV. STUDY SCHEDULE

The Study will be carried out in accordance with the attached tentative work schedule.

#### V. REPORTS

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

1. Inception Report

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

2. Progress Report(1)

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

3.Interim Report

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

4. Progress Report(2)

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

5. Draft Final Report

Twenty(20)copies at the end of the Phase II home office work. Mongolia provides 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 within one(1)month after receiving Mongolia's comments on the Draft Final Report

#### VI. UNDERTAKING OF THE GOVERNMENT OF MONGOLIA

- 1. To facilitate smooth conduct of the study, the Government of Mongolian 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 Mongolia for the duration of their assignment therein, and exempt them from alien registration requirements and consular fees.
  - (3) to exempt the members of the Japanese study team from taxes, duties and other charges on equipment, machinery and other materials bought into Mongolia 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 Japanese study team for their services in connection with the implementation of the Study.

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- (5) to provide the necessary facilities to the Japanese study team for remittance as well as utilization of the funds introduced into Mongolia 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 all data, documents (including photographs and maps) and specimens related to the Study out of Mongolia to Japan.
- (8) to provide medical services as needed. Its expenses will be chargeable on the members of the Japanese study team.
- (9) to provide the necessary facilities to the Japanese study team for unrestricted re-export of equipment and machinery brought into Mongolia for the conduct of the Study.
- (10) to secure permission to use walkie-talkies and other wireless telecommunications for execution of the field study.
- (11) to provide services of liaison staff, local guides, laborers, drivers, fuel, rent-a-car etc.
- The Government of Mongolia 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 Economics and International Cooperation Department, The Ministry of Food and Agriculture, (hereinafter referred to as "EICD") shall act as counterpart agency to the Japanese study team and also as coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.
- 4. ECD shall, at its own expense, provide the Japanese study team with me followings, in cooperation with other organizations concerned.
  - (1) available and data information related to the Study.
  - (2) cou iterpart personnel,
  - (3) suitable office space with necessary equipment in Ulaanbaatar and Survey Sites.
  - (4) credentials or identification cards.

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#### VII. UNDERTAKING OF JICA

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

- (1) to dispatch, at its own expense, the study teams to Mongolia.
- (2) to pursue technology transfer to the Mongolian counterpart personnel in the course of the Study.

#### VIII. CONSULTATION

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



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O Comments on DF /R by the Mongolian side

Ic/R: Inception Report
P/R(1): Progress Report (1)
It/R: Interim Report
P/R(2): Progress Report
DF/R: Draft Final Report
F/R: Final Report

#### MINUTES OF MEETING

**FOR** 

#### THE MASTER PLAN STUDY

ON

# THE INTEGRATED AGRICULTURAL AND RURAL DEVELOPMENT

#### CENTRAL REGION

IN

# THE MONGOLIA

The preparatory study team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA"), headed by Mr. Yutaka Sasaki, visited the MONGOLIA from March 7 to 20. 1994 for the purpose of discussing and confirming the Scope of Work for the MASTER PLAN STUDY ON THE INTEGRATED AGRICULTURAL AND RURAL DEVELOPMENT IN CENTRAL REGION IN THE MONGOLIA (hereinafter referred to as "the Study").

The Team had a series of discussions with the officials concerned of the Economics and International Cooperation Department (hereinafter referred to as "EICD"). Ministry of Food and Agriculture (hereinafter referred to as "MFA") on the Scope of Work for the Study. The list of participants in a series of meetings is attached in the Annex 1.

As a result of the discussions, EICD and the Team agreed on the Scope of Work for the Study.

The followings are the main issues discussed and agreed upon by the both sides in relation to the Scope of Work for the Study.

- 1. EICD shall supply the Japanese study team offices equipped with electricity, water supply, and telephones in Ulaanbaatar, and in other aimag's center offices.
- 2. The Japanese study team shall carry out the Initial Environmental Examination which includes collection of existing data, additional investigation to identify the environmental conditions and preliminary assessment of potential environmental impact of the proposed project.

But, all procedures required by the Mongolian laws of environment and or regulations shall be taken by EICD Necessity of detailed Environmental Impact Assessment will be discussed between Mongolian side and the Japanese study team.

3. EICD requested that the following equipment necessary for the Study be provided by JICA.

The Team promised to convey its request to the Government of Japan.

- copymachine
- survey equipments
- vehicles
- 4. EICD requested the counterpart training in Japan. The Team promised to convey its request to the Government of Japan.
- 5. The team requested EICD organize Steering Committee for the Study and EICD agreed upon this request.

Ulaanbaatar 17 March, 1994

Mr. Chvltemyn Perenlei

General Director,

Economics and International Cooperation

Department,

Ministry of Food and Agriculture

Mr. Yuyaka Sasaki

Leader.

JICA Study Team

Mr. Choindongiin Enebish

Députy Director,

Department of Industrial Trade and Cooperation,

Ministry I Trade and Industry

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#### LIST OF PARTICIPANTS

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Mr. G. Svrenjargal

Deputy Minister

EICD

Mr. Ch. Perenlei

General Director

Mr. D. Dorligsvren

Deputy Director

Mrs. R. Durima

Officer

Ministry of Trade and Industry

Mrs. L. Nasanbuyan

Assistant Director

The Team

Mr. Yutaka Sasaki

Leader

Mr. Kensyv Oosawa

Member

Mr. Yosio Watanabe

Member

Mr. Tutomu Kananaya

Member

Mr. Masaki Oga

Member

Mr. Naoto Morioka

Member

The Japanese Embassy in Mongolia

Mr. Keizo Kagawa

First Secretary

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#### Members of Steering Committee

- 1. Chairman of Steering Committee:

  Deputy Minister of Food and Agriculture (MFA)
- 2.Coordinator of Steering Committee:

  General Director of Economic and International Cooperation Dep., MFA
- 3. Members:
- (1) General Director of Dep., National Development Board (NDB)
- (2) Deputy Minister of Trade and Industry (MTI)
- (3)Officer of Asian and African Dep., Ministry of Foreign Relations (MFR)
- (4) General Director of Technology and Investment Policy Dep., NDB
- (5)Director of International Co-operation Dep., Ministry of Nature and Environment (MNE)
- (6)Director of Agricultural Dep. of Ulaanbaatar city
- (7) General Director of Science and Technology Dep., Ministry of Science and Education (MSE)
- (8) General Director of Medical Aid Dep., Ministry of Health (MOII)
- (9) General Director of City Construction, Architecture, Social Service Dep., Ministry of Infrastructure Development (MID)
- (10) Head of Central Energy Network, Ministry of Energy (MOE)

List of Study Team Members and Counterparts

Member' Name	Assignment		Counterparts' Name and Position
K.Hattori	Team Leader	D.Dorligsuren	: General director of EICD, MOFA
· · · · · · · · · · · · · · · · · · ·	Environment	D.Avaadorj Sh.Bayasgalan E.Oyunchimeg	: Chief of Section, Rangeland institute, MNE : Chief of Section, Hydro meteorological research institute, MNE : Officer of autoroad dep., MID
T.Tajíri	Agricultural Institutional System  Irrigation & Drainage	Z.Oyuntsetseg N.Batjargal G.Hishgee D.Batbayar Luvsandavaajav D.Avaadorj	: -do- : Officer of the EICD : Officer of Animal husbandry dep. : Officer of Crop, machinery and irrigation dep. : Research worker of Water policy research institute, MNE : Head of section of Water policy research institute, MNE : -do-
H.Takai	fiel New	T. Lubsanbud	: Officer of Crop, machinery and irrigation dep.
n. raxa i	Land Use Rural Society	D.Avaadorj Ch.Tungalag	: -do- : Officer of the EICD
T.Kiyonaga	Meteorology Hydrology	Sh.Bayasgalan Luvsandavaajav	: -do-
	Rural Infrastructu- re	-	: -do- : Officer of Crop, machinery and irrigation dep.
K.Kuniyasu	Soil	G.Mijiddorj	: Director of Plant science and agricultural research
	Cultivation	G.Hishgee Ts.Galbadrakh Ts.Horloobaata	institute : -do- : Officer of Crop, machinery and irrigation dep. r:Officer of Crop, machinery and irrigation dep.
	Agricultural Econo- my Market-Economy		
	Finance	D.Dorligsuren	: -do-
K.Sakai	Farm Management	G.Hishgee	:do-
	Agricultural Farmi- ng & Extension	R.Namkhai	: Officer of the EICD
	International Trade	R.Namkhai	:-do-
	ment	N.Batjargal S.Namjildorj G.Unenbat G.Hashbaatar	: -do- : Officer of General dep.of State Veterinary Service : Officer of Animal husbandry dep. : Officer of Food department
f.Takano	Facilities Planning	T. Enebish	: Officer of Macro-economic policy dep. of National
	Farmland Protection	D. Avaadorj	Development Board: -do-
	Agro-products Mar- keting & Processing	N.Tsagaach	: -do- : Officer of Technology and investment policy dep. of NDB
	Project Evaluation Economic & Financi- al Analysis	2.0yuntsetseg 2.0yuntsetseg	: -do-

Working Group's Members (organized by counterparts)
Chairman : D.Dorligsuren
Deputy Chairman : D.Bayartsogt
Coordinator : A.Shiilegdamba
: D.Dalantainyam

Coordinator : D.Dalantainyam

Coordinator : D.Dalantainyam

Annex-4

# LIST OF STUDY TEAM MENBERS

Name	Assignment
Koji Hattori	Study Team Leader, Environment
(Masaru Sasaki) 「Teruhisa Tajiri」	Agricultural Institutional System, Irrrigation , Drainage
Hiroyuki Takai	Land Use , Rural Society
Toshiyuku Kiyonaga	Hydrology & Meteorology , Rural Infrastructure
(Kazuo Ogawa) 「Katuto Kuniyasu」	Soil , Cultivation
(Kunihiro Ozaki) 「Shuichi Takahasi」	Agricultural Economy , Market-Economy, Finance
Kiyoshi Sakai	Agricultural Farming , Farm Management, Extension , International Trade
Yukio Shinomi	Development of Livestock , Marketing & Processing of Livestock products
Teruhiko Takano	Facilities Planning , Presevation of Farmland
Kazuo Okano	Marketing & Processing of Agricultural Products, Project Evaluation, Economic & Financial Analysis
Toshio Hujino	Coordinator
Ren Saima	Interpreter
「Noriko Katou」	Interpreter

Annex-5

Table of Work Schodule (1)

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Study Item	4 5 5 6 1 7 7 8 9 9 10 10 11 12 11 2 2 3 4	5 6 7 8 9 10 11 12 1 2 3
A. Study Period		∇-∇
B. Phase	Phase I	Phase II
C. Fiscal Year	1st Year	2nd Year
D. Explanation of Report	A-Δ   Δ-Δ   Δ-Δ     Intofim   In	$\Delta - \Delta$ $\Delta - \Delta$ $\Delta = \Delta - \Delta$ $\Delta = \Delta$ $\Delta$ $\Delta = \Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$
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1. Advance Preparation in Japan		
2. Phaso I Study		
1) Field Survey (Stage 1)		
(1) Briefing/Discussion of Inception Report, etc.	V-V	
Collection and Review of Data and (2) Information, Riview of Existing Plan, etc., Field Survey, etc.		
C Review of Economic Policy		
@ Analysis of Production Sector		
Agriculture, Livestock and Rural		
♠ Natural Conditions		
5 Environment		
Additional Contracted Survey of Project Site		
Step 1 Analysis of Present Cond. Assesment of Obstructing Factores Asses, of Need for Development		
(3)Stop 2 Analysis of Development		
Legend: Probletion	Field Work in A — A Explanation of Survey	tion of Others

Table of Work Schedule (2)

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(4) Preparation and Briefing of Prodress Report (1)							◁	۵-۵		• • • • •												
2) Work in Japan (Stage 2)			ļ		· • • • •			, <b>.</b>		П					<b></b>						44	
(1) Step 3 Formulation of the Substance of Deveropment								. ا														
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(2) Survey Suplementary to Phase I					<u>.</u>						· .			8.		: 						
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(4) Step 5 Selection of the Model			ļ													 	ļ					
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(6) Preparation and Brieting of Progress Report (2)					;										7	Δ‡Φ						
2) Work in Japan (Stage 4)				3 						 		• • • •				U					• • • •	
(1) Step 6 Formulation of Model prog.	· · · · · ·			. i <b></b> .			•													-1		
(2) Preparation of Draft Final Report						1							· · · ·		· · · ·							
4. Briefing/Discussion of Draft Final Report in Mongol		<b> </b>				  ,								<b> </b>					Δ-Δ			
5. Proparation of Final Report						• • •	1				<u>-                                   </u>									:	 :	
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FY 1995 9 10 တ e a ဖ H Work in Japan Study က г. О 4 10 11 12 Schedule Field Survey Work Animal Products Marketing & Processing Agro-Products Marketing & Processing Agricultural Farming & Extension Economic & Financial Analysis Rural Infrastructure Livestock Development Irrigation & Drainage Meteorology/Hidrology Institutional System Agricultural Economy international Trade Facilities Planning Farmland Protection Project Evaluation Farm Management Assignment Rural Society Cultivation Team Leader Environment Legend Land Use Finance Soil

Annex-6

Collected Data

Item	DATA & INFORMATION
Cultivation	PLANTS FOR GREEN MANURE AND FEED IN MONGOLIA
Cultivation	VEGETABLES AND THEIR CULTIVATION IN MONGOLIA
Agricultural EconomyUl	yUlaanbaatar Membership Business Directory
Farming	Pattern norm of the Machinery Agriculture works
Farming	Mongolian Agricultural Management Development Project (Crop Farm Management Training P
Farming	Agriculture Development Project(F/R)
Intenational Trade	The Designing and Implementation of Export Promotion and Development Policy of Mongol
Intenational Trade	PRODUCTION & TRADE YEARBOOK (1983-1993)
Livestock Develop.	Animal Hygien and Genetic Control Low
Livestock Develop.	Fodder Production and Feeding Technology for Mechanized Dairy Farm
Livestock Develop.	Policy Alternatives for Livestock Development (No.4), 1993
Livestock Develop.	Policy Alternatives for Livestock Development (No.6), 1993
Livestock Develop.	Livestock Feed Improvement Project Final Report, 1992
Livestock Develop.	Livestock Sector Study Phase 2 Draft Final Report, 1993
Livestock Develop.	Livestock Genepool Project Mission Report, 1995
Livestock Develop.	Livestock Population and Productivity and the Human Population
Livestock Develop.	Pilot Livestock Sample Survey Report
Livestock Develop.	Statistical Data of Livestock Sector in 1994
System Design	Designing Standard for Building Works
Marketing/ProcessingPR	SPRICE SURVEY RESULTS OF MAIN AGRICULTURAL PRODUCTS BY AIMAG
Marketing/ProcessingPR	EPROJECT ON ESTABLISHMENT OF SUGAR FACTORY IN ZUUN-KHARAA
Marketing/ProcessingAG	SAGRICULTURAL PROCESSING, STORAGE & DISTRIBUTION PROJECT
Economic Analysis	Mongolia Annual Economic Development Report
Economic Analysis	MONGOLIAN ECONOMY AND SOCIETY IN 1993
Economic Analysis	MONTHLY BULLETIN OF STATISTICS (January 1995)
Economic Analysis	MONTHLY BULLETIN OF STATISTICS (April 1995)
Economic Analysis	MONTHLY BULLETIN OF STATISTICS (July 1995)
Miscellaneous	INFORMATION OF MONGOLIA
Miscellaneous	NATIONAL PROGRAMME ON THE POPULATION'S FOOD SUPPLY IMPROVEMENT
Miscellaneous	-do- Sub Project(Food grain & bread, Sugar, Vegetable oil, Fruit & berry, Meat, Milk
Miscellaneous	idi
Miscellaneous	National Privatization Law

Collected Data

Item	DATA & INFORMATION
Environment	National Report Mongolia June 1991
Environment	Management law for administration units in Mongolia
Environment	Mongolia National Plan of Action to Combat Desertification
Environment	Government Regulation No. 121 on the Environmental Impact Assessment Procedure
Agricultural system	
Irrigation	Irrigation Rehabilitation Project (FAO/ADB)
Irrigation	Water Policy Institute(Activities & Duty)
Land Use	Land Use by Aimag(1986 - 1989)
Land Use	Land law
Hydrometeorology	Mean monthly precipitation (mm) (1961-1992)
Hydrometeorology	Meteorological Location map (1/1,000,000)
Hydrometeorology	Hydorological Location map (1/1,000,000)
Hydrometeorology	River system map
Hydrometeorology	Number of Rivers, Lakes, and Springs
Hydrometeorology	Ground water and surface water Resources
Hydrometeorology	Mean monthly water discharge of study area (m3/sec)(1973-1992)
Hydrometeorology	Irrigation water requirement by crops
Hydrometeorology	Water consumption
Hydrometeorology	Mean monthly temperature (°C) (1962-1992)
Hydrometeorology	Mean monthly rainy days (days)
Hydrometeorology	Mean monthly Wind speed, Wind vane (m/sec, %)(1982-1992)
Hydrometeorology	Mean monthly Humidity (%) (1961-1992)
Hydrometeorology	Mean monthly Solar radiation (hour) (1961-1992)
Hydrometeorology	Mean monthly Soil temperature ("C) (1959-1991)
Hydrometeorology	Mean monthly Snowfall days (days)
Hydrometeorology	Evaporation (mm) (April-Oct.)
Rural InfrastructureCentral	Central Energy System
Rural Infrastructure	Rural InfrastructureUtilization of wells by Aimags
Rural Infrastructurewat	water supply area of one well by Aimags
Cultivation	WARIETIES OF MAIN CROP AND THEIR CHARACTERISTICS IN MONGOLIA
Cultivation	CONTROL OF CROP DISEASES, PESTS, WEEDS IN MONGOLIA
	STANDARD OF FERTILIZER APPLICATION IN MONGOLIA
Cultivation	CULTIVATION METHOD OF WHEAT, BARLEY IN CENTRAL MONGOLIA

