- c. Geology and soil mechanics
- d. Soil
- e. Irrigation and drainage
- f. Vegetation
- g. Population
- h. Agriculture including livestock
- i. Land use
- j. Agro-economy and institutions
- k. Regional and national economy
- 1. Infrastructure
- m. Regional and national development plans
- (2) To identify possible project sites and to conduct preliminary screening of the sites by use of available data and maps, and Remote Sensing Technology.
- (3) To carry out field survey on the following items for proposed project sites.
 - a. Topography
 - b. Meteorology and hydrology
 - c. Geology and soil mechanics
 - d. Soil
 - e. Socio-economy
 - f. Inventory of possible medium size dams in the study area
 - g. Others
- (4) To conduct preliminary evaluation on the following items and to make an inventory of project sites with priority
 - a. Water resource
 - b. Dam scale
 - c. Irrigation area
 - d. Cropping area
 - e. Socio-economic condition
 - f. Infrastructure
 - g. Construction cost
 - h. Benefit
 - i. Others

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2. Phase II (Feasibility Study)

The following studies are to be carried out on the project sites agreed between MEWRD and the Study Team based on the result of Phase I Study.

- (1) To carry out additional field surveys necessary for the feasibility study on the following items,
 - a. Topography
 - b. Geology
 - c. Hydrology
 - d. Soil mechanics
 - e. Others
- (2) To carry out the following analyses and studies
 - a. Water resources
 - b. Soil and land use
 - c. Agriculture
 - (1) Farming
 - (2) Cropping
 - (3) Supporting services
 - (4) Marketing
 - d. Irrigation and drainage
 - e. Domestic and livestock water use
 - f. Fish farming
 - g. Socio-economy
- (3) To make a development plan of each project based on the above analyses and studies.
- (4) To make preliminary designs of the following
 - a. Dams
 - b. Irrigation and drainage facilities
 - c. Water supply facilities
- (5) To estimate cost and benefit of each project
- (6) To conduct project evaluation
- (7) To programme project implementation schedules

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V. WORK SCHEDULE

The tentative work schedule is shown in the APPENDIX. It is scheduled that all the works including feasibility study report be completed within eighteen (18) months.

VI. REPORTS

The following reports will be prepared and submitted to the Government of Zimbabwe.

- (1) Inception Report
 Twenty (20) copies in English at the commencement of Phase I field study
- (2) Field Report (I)
 Twenty (20) copies in English at the end of Phase I field study
- (3) Interim Report
 Twenty (20) copies in English at the end of home office work of
 Phase I
- (4) Field Report (II)
 Twenty (20) copies in English at the end of Phase II field study
- (5) Draft Final Report
 Twenty (20) copies in English at the end of home office work of
 Phase II. MEWRD shall, if any, present comments on the Draft
 Final Report to JICA within one month after the submission of
 the Draft Final Report.
- (6) Final Report
 Fifty (50) copies and Two (2) sets of Drawing Negatives in
 English within two months, after receiving the comments of the
 Government of Zimbabwe on the Draft Final Report.

VII. UNDERTAKING OF THE GOVERNMENT OF THE REPUBLIC OF ZIMBABWE

- 1. To facilitate the smooth implementation of the Study, the Government of the Republic of Zimbabwe shall take the following measures:
 - (1) To secure the safety of the Study Team.
 - (2) To permit the members of the Study Team to enter, leave and sojourn in Zimbabwe for duration of their assignment therein, and exempt them from alien registration requirements.

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- (3) To exempt the Study Team from taxes, duties and any other charges on equipment, machinery and other materials to be brought into Zimbabwe for the implementation of the Study.
- (4) To provide the Study Team with medical facilities when needed, but medical expenses shall be chargeable to the Study Team.
- (5) To exempt the members of the Study Team from income tax and duties imposed on any emolument or allowance paid to the members of the Study Team for their services in connection with the implementation of the Study.
- (6) To provide necessary facilities to the Study Team for remittance as well as utilization of the funds introduced into Zimbabwe from Japan in connection with the implementation of the Study.
- (7) To enable the Study Team to take all relevant data and materials concerned with the study out of Zimbabwe.
- (8) To secure permission where possible for entry into private properties or restricted areas for the conduct of the Study.
- 2. The Government of Zimbabwe shall bear claims, if any arise against the members of the Study Team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or wilful misconduct on the part of the members of the Study Team.
- 3. MEWRD shall act as counterpart body to the Study Team and also as coordinating body to other relevant organizations for the smooth implementation of the Study.
- 4. MEWRD shall, at its own expense, provide the Study Team with the following, in cooperation with other relevant organizations:
 - (1) Access to available data and information related to the Study;
 - (2) Credentials or identification documents to the members of the Study Team:
 - (3) Suitable office space with basic equipment;
 - (4) Counterpart officials during the study period;
 - (5) Arrangements for the Study Team to hire vehicles with drivers.



VII. UNDERTAKING OF JICA

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

- 1. To despatch, at its own expense, the Study Team to Zimbabwe.
- 2. To pursue technology transfer to the Zimbabwe counterpart personnel in the course of the Study.
- 3. To provide necessary equipment for implementation of the Study, which will remain the property of JICA unless otherwise agreed upon.

IX. OTHERS

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



APPENDIX

TENTATIVE WORK SCHEDULE

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MINUTES OF A MEETING BETWEEN REPRESENTATIVES OF THE MINISTRIES OF ENERGY AND WATER RESOURCES AND DEVELOPMENT (MEWRD); LANDS, AGRICULTURE AND RURAL RESETTLEMENT (MLARR); AND FINANCE. ECONOMIC PLANNING AND DEVELOPMENT (MFEPD) OF ZIMBABWE AND REPRESENTATIVES OF THE JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) HELD IN MEWRD OFFICES ON WEDNESDAY, 19TH FEBRUARY 1986 AT 0900 HOURS.

PRESENT:

Mr A.S. Mpala : Deputy Secretary (Operations) (MEWRD) Chairman.

Mr C.R. Chatora : CET I (Operations) (MEWRD)

Mr J. Makadho : Chief Irrigation Officer - Agritex (MIARR)

Mr W. Chirimuuta : MFEPD

Mr Y. Yamaguchi : JICA - Leader of Japanese Delegation

Mr K. Ishikawa : JICA
Mr Y. Kanou : JICA

Mr H. Shimizu : First Secretary - Embassy of Japan

DISCUSSION

To finalise and agree of the proposed "Scope of Work for the Feasibility Study on Medium Size Dams in Masvingo Province in the Republic of Zimbabwe" which had been prepared and presented by JICA.

The changes discussed and mostly requested by the Zimbabwe delegation and agreed on in the last meeting of Friday 14th February 1986, were discussed again, much to the disappointment of the Zimbabwean delegation, and new proposals to replace those changes were presented by JICA.

These were discussed and the attached document (Appendix A) was finally accepted as the agreed "Scope for Work" document. However, the following points which were also discussed but do not appear on the "Scope of Work" document should be noted.

i) SECTION III: on Undertaking by the Government of the Republic of Zimbabwe on No. 4, Item 3. Besides the office space they will be allocated
at MEWRD Head Office, the Japanese delegation also requested for
an office at the MEWRD offices in Masvingo Province. This request
was granted.

2) SECTION VIII, on 'Undertaking of JICA"

(i) On the thorny issue of the responsibility of hiring and firing the Consultant, the Japanese delegation again refused the Zimbabwe Government to have any input in the selection of the Consultant.

The Chairman warned JICA that their Consultant will be very closely monitored during the Study period. If he is found wanting or incompetent, the Government of Zimbabwe will stop him from continuing and complain to JICA through the Embassy of Japan, and probably publicly.

Hence it is in the interests if JICA to choose a really experienced and professional Consultant who is also capably of listening to advice from the Zimbabwe Government.

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He stressed that the Zimbabwe Government required and could only accept proper and accurate engineering reports and documents from JICA's Consultant.

They were then shown some of the documents produced by DANIDA in the Midlands Province and the Yugoslavs in Mashonaland West Province, for which they requested and were given examples.

(ii) The Question of the Client

The Zimbabwe delegation requested that it be specified in the "Scope of Work" document that the Zimbabwe Government was "The Client".

They pointed out difficulties which have arisen in the past when Comsultants on similar projects have refused advice and orders from the Zimbabwe Government on the pretext that they were not under the employment of the Government of Zimbabwe, and yet, technically, the Consultant should really answer to the Zimbabwe Government.

The Japanese delegation did not agree to have this item included in the "Scope of Work" document, arguing that they expected a good working relationship between their Consultant and the Government of Zimbabwe, and that therefore it was commonsense that the Consultant should take advice and orders from the Government of Zimbabwe.

However, the Zimbabwe delegation requested JICA to inform the Consultant that he will be responsible to the Government of Zimbabwe on all technical and professional matters pertaining to the project.

The Japanese delegation agreed to this request, saying that they will honour this request even if it was not going to be inserted in the "Scope of Work" document.

There being no further business to be discussed, the Chairman closed the meeting at 10.45 a.m.

The next meeting was set for the following day, Thursday 20th February 1986, when the Permanent Secretary of MEWRD is expected to sign the agreed "Scope of Work" document with Mr. Yamaguchi, the Leader of the Japanese delegation.

This will be the last meeting between the Government of Zimbabwe and this mission of JICA. The mission will be flying out of Zimbabwe on Saturday, 22nd February 1986.

19 February 1986

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SCOPE OF WORK

FOR

UPDATING FEASIBILITY STUDY

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BAGUINEDA AGRICULTURAL DEVELOPMENT PROJECT

I. INTRODUCTION

In response to the request of the Government of the Republic of Mali, the Government of Japan, in accordance with the relevant laws and regulation in force in Japan, has decided to conduct the updating feasibility study on the Banguineda Agricultural Development Project in the Republic of Mali (hereinafter referred to as "the Study").

The Japan International Cooperation Agency (hereinafter referred to as "the JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will carry out the Study in close cooperation with the Government and the authorities concerned of the Republic of Mali.

The present document sets forth the Scope of Work for the Study.

II. OBJECTIVES OF THE STUDY

The objectives of the study are

- to review and update the technical and economic feasibility of the project on the basis of current situation in Mali;
- ii) to formulate stepwise development plan; and
- iii) to undertake on-the-job training of the counterpart personnel in the course of the Study.

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III. STUDY AREA

The study area is located at about 30 to 40 km east of Bamako, capital of Mali, and covers Baguineda Agricultural Development area of 4,500 ha in gross under the management of Baguineda Integrated Development Operation, slenderly extending along the right bank of the Niger river.

IV. SCOPE OF THE STUDY

The activities to be undertaken by the Japanese Study Team (hereinafter referred to as "the Study Team") will be broadly divided into two categories as shown below.

Work-I: Additional data collection, supplemental field survey and (Work in Mali) investigation, and review of the basic concept of the project

Work-II: Review of the previous development plan of the project and (Work in Japan) preparation of updating feasibility study report

Each Work consists of the follwoing work items.

Work I (Work in Mali)

- (1) To collect and review the additional data and information relevant to the study on the following items.
 - i) Meteorology
 - ii) Hydrology
 - iii) Irrigation and drainage
 - iv) Agriculture
 - v) Agro and regional economy and institution
 - v1) Infrastructure
 - vii) Others
- (2) To execute the supplemental field survey and investigation on the following items.
 - i) Irrigation and drainage survey
 - ii) Longitudinal and cross sectional survey of the existing main canal to be included in the first stage development of the project

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- iii) Agricultural survey
 - iv) Construction material and cost survey
 - v) Other surveys
- (3) To review the previously established basic concept of the project
 - i) Delineation of the project area
 - ii) Agricultural development plan
 - iii) Basic layout of irrigation and drainage facilities
 - iv) Formulation of stepwise development plan

Work-II (Work in Japan)

- (1) To review and update, if necessary, development plan of the project formulated in the previous feasibility study, based on the results of supplemental field survey and investigation.
 - i) Final delineation of the project area
 - ii) Agricultural development plan including land use, cropping pattern, farming practice, input and output, farm settlement, livestock, etc.
 - iii) Estimate of irrigation and drainage water requirement
 - iv) Layout and feasibility study level design of the proposed facilities
 - v) Organization plan for operation and maintenance
 - vi) Implementation plan and schedule
 - vii) Benefit and cost estimate
 - viii) Economic and financial analyses
- (2) To carry out preliminary design of the proposed facilities to be included in the first stage development.
- (3) To prepare the feasibility report.

V. REPORT

The Study Team will prepare the following reports in English with French summary and submit them to the Government of Mali.

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(1) Plan of Operation: Twenty (20) copies at the beginning of

field work in Mali

(2) Interim Report : Twenty (20) copies at the end of field

work in Mali

(3) Draft Final Report: Twenty (20) copies at the end of home

office work in Japan

(4) Final Report : Fifty (50) copies within two (2) months after

receiving comments of the Government of Mali

on the Draft Final Report

VI. STUDY SCHEDULE

The study, in principle, will be carried out in accordance with the attached Tentative Work Schedule.

VII. UNDERTAKING OF THE GOVERNMENT OF THE REPUBLIC OF MALI

- 1. To facilitate the smooth implementation of the Study, the Government of the Republic of Mali shall take necessary measures.
 - (1) to secure the safety of the Study Team,
 - (2) to permit the members of the Study Team to enter, leave and sojourn in Mali for duration of their assignment therein, and exempt them from alien registration requirements and consular fees.
 - (3) to exempt the members of the Study Team from taxes, duties and other charges on equipment, machinery and other materials brought into Mali for the implementation of the Study,
 - (4) to exempt the members of the Study Team from income tax and other charges imposed on or in connection with any emolument or allowance paid to the members of the Study Team for their services in connection with the implementation of the Study.

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- (5) to provide necessary facilities to the Study Team for remittance as well as utilization of funds introduced into Mali from Japan in connection with the implementation of the Study,
- (6) to secure permission for the study Team to take all data and documents (including photographs) related to the Study,
- (7) to let the Study Team receive medical care without any hindrance as necessary, provided that any expenses shall be borne by the Study Team, and
- (8) to secure permission for the entry into private properties or restricted area, if any, for the conduct of the Study.
- 2. The Ministry of Agriculture, the Republic of Mali (hereinafter referred to as "MOA") shall act as counterpart body to the Study Team and also is coordinating body to other relevant organizations for the smooth implementation of the study.
- 3. MOA shall, at its own expense, provide the study Team with the following, in cooperation with other relevant organizations:
 - (1) available data and information related to the Study,
 - (2) counterpart personnel to assist the Study Team and participate in the various activities for the study,
 - (3) suitable office space with necessary equipment in Bamako,
 - (4) credentials or identification cards to the members of the Study Team, and
 - (5) appropriate number of vehicles with drivers.

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The Government of the Republic of Mali shall bear claims, if any arises against the members of the Study Team resulting from, occuring 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 Study Team.

VIII. UNDERTAKING OF JICA

1st July 1985

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

- to send, at its own expense, the study Team to the Republic of Mali,
- to perform technology transfer to the counterpart personnel in the course of the Study in Mali, and

to arrange, at its own expense, equipment and machinery necessary for the Study.

(Samako 1-July-1985

For the Mali Government

Managachi Insanador MAKIK.A. TALL
YAMAGUCH Kasami General Director Instructional Cooper

Had of the JACA Team

TENTATIVE WORK SCHEDU

4) Final Report	3) Draft Final Report	2) Interim Report	1) Plan of Operation	III. Report	3) Preparation of Draft Report	2) Preliminary Design for First Stage Development	1) Review & Updating of Previous Study	II. <u>Second Stage</u> (Work in JAPAN)	3) Basic Concept Review	2) Field Survey & Investigation	1) Data Collection & Review	I. <u>First Stage</u> (work in Mail)		Description
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SCOPE OF WORK

FOR

THE MASTER PLAN STUDY

ON.

THE AGRICULTURAL DEVELOPMENT PROJECT IN THE ADJACENT AREA TO THE YACYRETA DAM

IN THE PROVINCE OF CORRESPES

OF THE REPUBLIC OF ARGENTINA

AGREED UPON BETWEEN

THE GOVERNMENT OF THE PROVINCE OF CORRIENTES

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

SEPTEMBER 16, 1986

pr. Jose antonio romero feris

COBERNADOR DE

LA PROVINCIA DE CORRIENTES

Mr. MASAKI FUKUDA

RESIDENT REPRESENTATIVE OF

JAPAN INTERNATIONAL COOPERATION

AGENCY IN ARGENTINA

Arg. OSCAR YUJNOVSKY

SUBSECRETARIO DE

COOPERACION INTERNACIONAL

MINISTERIO DE RELACIONES EXTERIORES Y CULTO

Ing. Agr. FIDEL MARIA BRACERAS

SUBSECRETARIO DE AGRICULTURA

SECRETARIA DE AGRICULTURA, GANADERIA Y PESCA

I. INTRODUCTION

In response to the request of the Government of the Republic of Argentina, the Government of Japan decided to conduct the Master Plan Study on the Agricultural Development Project in the adjacent area to the Yacyreta Dam in the Province of Corrientes of the Republic of Argentina (hereinafter referred to as "the Study"), in accordance with the Agreement on Technical Cooperation between the Government of Japan and the Government of the Republic of Argentina.

The Japan International Cooperation Agency (hereinafer referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will undertake the Study, in close cooperation with the Government of the Province of Corrientes, and other relevant authorities and organizations of the Republic of Argentina.

The present document sets forth the Scope of Work for the Study.

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II. OBJECTIVE OF THE STUDY

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The objective of the Study is to draw up the Master Plan related to the proposed area for realizing high productive agriculture and promoting integrated rural development.





III. CUTLINE OF THE STUDY

1. Study area

The study will cover approximately 400,000 has in Corrientes province as shown in Appendix.

2. Outline of the Study

The Study will consist of the following three (5) phases.

Phase I

In the first phase, it is intended to ascertain the present conditions in the study area and to study the basic direction of planning.

- 1. Collection and analysis of existing data and information
- 2. Field survey on the existing conditions in the study area
- 3. Installment of measuring equipment for data collection
- 4. Study on the present conditions including the following items
 - (1) Natural conditions
 - 1) Topography including aerial photogrammetry
 - 2) Meteorology
 - 3) Hydrology
 - 4) Soil and geology
 - 5) Land classification
 - 6) Vegetation
 - (2) Land improvement section
 - 1) Irrigation
 - 2) Drainage
 - 3) Existing road networks
 - (5) Agricultural section
 - 1) Land use
 - 2) Land ownership
 - 3) Cropping pattern
 - 4) Crop production
 - 5) Agricultural facilities

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- 6) Grassland improvement
- 7) Agricultural institutions
- (4) Social and economic section
 - 1) Agro and regional economy
 - 2) Agricultural marketing
 - 3) Administrative organizations
 - 4) Social infrastructure
- (5) Other necessary items related to the project
- 5. Study of the basic direction of planning including delineation of the develorment area

Phase II

Based on the results of the Phase I study, Phase II will cover the collection of supplementary data, the formulation of an outline of project components, and the outlining of the Master Plan.

1. Collection and analysis of supplementary data

The results of the survey conducted in the first phase will be reviewed, and supplemental field work and analysis will be conducted.

- 2. Formulation of outline of the land use plan and the following projects components.
 - (1) Land improvement section
 - 1) Irrigation
 - 2) Drainage
 - 3) Land reclamation
 - 4) Land rearrangement
 - 5) Road networks
 - 6) Operation and maintenance of facilities
 - (2) Agriculture section
 - 1) Farm management
 - 2) Cultivation
 - 3) Grassland improvement
 - 4) Settlement
 - 5) Agricultural institutions

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- (3) Social and economic section
 - 1) Agroindustry
 - 2) Marketing
 - 3) Social infrastructure
- (4) Other necessary items related to the project
- 3. Cutlining the Master Plan

Phase III

Phase III will cover the formulation of the project components, and the finalization of the Master Plan.

- 1. Formulation of the project components
 - (1) Field surveys to supplement Phase II study
 - (2) Formulation of the project components
- 2. Finalization of the Master Plan
- (1) Study of integration of the project components
- (2) Identification of the subprojects
- (3) Prioritization of the subprojects
- (4) Estimation of the project cost
- (5) Project evaluation
- (6) Finalization of the Master Plan
- 3. Recomendation of the basic policy for the implementation of the project

IV. SCHEDULE OF THE STUDY

The Study will be conducted in accordance with the attached tentative study schedule.

V. REPORTS

JICA will prepare and submit the following reports in Spanish to the Provincial Government of Corrientes through Ministry of Foreign Affairs of Argentina as follows;

- 1. Inception Report;
 - Twenty (20) copies at the commencement of the Phase I field work
- 2. Progress Report (I);

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

Interim Report (I);

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

4. Plan of Operation;

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

Progress Report (II);

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

6. Interim Report (II);

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

7. Plan of Operation (II);

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

8. Progress Report (III);

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

9. Draft Final Report;

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

The Provincial Government of Corrientes through Ministry of Foreign Affairs of Argentina is requested to provide its comments on the Draft Final Report to JICA office in Buenos Aires within one (1) month from its reception.

10. Final report

Forty (40) copies within two (2) months after receiving the comments on the Draft Final Report

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VI. UNDERTAKINGS OF THE COVERNMENT OF THE REPUBLIC OF ARGENTINA

- 1. The Government of the Republic of Argentina shall accord privileges, immunities and other benefits to the Japanese Study Team in accordance with the Agreement on Technical Cooperation between the Government of Japan and the Government of the Republic of Argentina.
- 2. In order to facilitate the smooth implementation of the Study, the Government of the Republic of Argentina 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 Republic of Argentina 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 brought into the Republic of Argentina for the implementation of the Study,
 - (4) to exempt the members of the Japanese Study Team from income tax and other charges of any kind imposed on or in connection with any emolument or allowance paid to them for their services in relation to the implementation of the Study,
 - (5) to provide the members of the Japanese Study Team with necessary facilities for remittance as well as utilization of the funds introduced into the Republic of Argentina from Japan in the course of the implementation of the Study,
 - (6) to secure the permission for the members of the Japanese Study Team to enter into private properties and restricted areas for the implementation of the Study,
 - (7) to secure the permission for the members of Japanese Study Team to take all data and documents (including photographs and maps) related to the Study out of the Republic of Argentina to Japan, and,
 - (8) to provide with medical services as needed. Their expenses will be chargeable on the members of the Japanese Study Team.

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- 3. The Government of the Republic of Argentina 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.
- 4. The Government of the Province of Corrientes shall act as counterpart agency to the Japanese Study Team and organize a coordinating group consisted of the personnel from related organizations for the smooth implementation of the Study.
- 5. The Government of the Province of Corrientes shall, at its own expense, provide the Japanese Study Team with the followings, in cooperation with other relevant organizations;
 - (1) available data and information related to the Study,
 - (2) counterpart personnel,
 - (3) suitable office space with necessary office equipment and furniture in the capital of the Province of Corrientes and the project site,
 - (4) credentials and identification cards,
 - (5) appropriate number of vehicles with drivers,

6. The Government of the Province of Corrientes shall, at its own expense, install measuring equipment for data collection.

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VII. UNDERTAKING OF JICA

For the implementation of the Study, JTCA shall take necessary measures;

- 1. To dispatch, at its own expense, study teams, which have been referred to as "the Japanese Study Team" so far, to the Republic of Argentina, and,
- 2. To perform technology transfer to the counterpart personnel in the course of the Study.

VIII. CONSULTATION

The Government of the Province of Corrientes and JICA will consult with each other in respect of any matter which has not been agreed upon in this document and may arise from or in connection with the Study.

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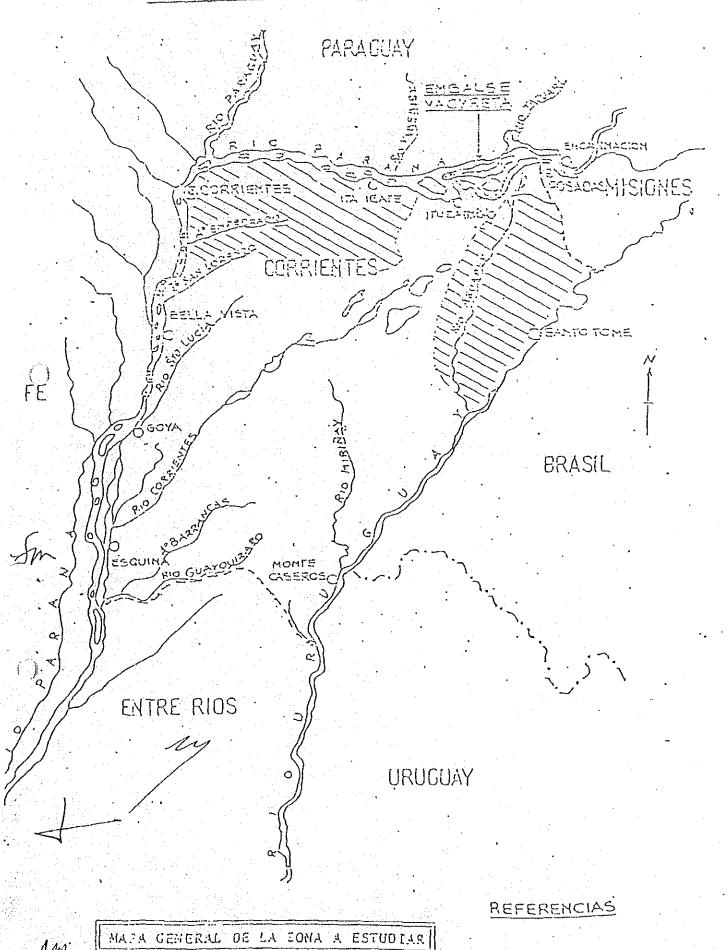
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SCOPE OF WORK

or

THE PRE-FEASIBILITY STUDY FOR THE DEVELOPMENT

OF MINING PROJECT

IN

SAN ANTONIO AREA

IN

THE REPUBLIC OF BOLIVIA

AGREED UPON BETWEEN

CORPORACION MINERA DE BOLIVIA

AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY AND
THE METAL MINING AGENCY OF JAPAN

LA PAZ, 5 SEPT. 1986

ING. GUILLERMO ARROYO RODRIGUEZ
/ PRESIDENTE

CORPORACION MINERA DE BOLIVIA

IZUMI TAKESHI LEADER OF JAPANESE

MISSION

JICA AND MMAJ

ING. GONZALO BARRIENTOS CAREAGA
GERENTE GENERAL
CORPORACION MINERA
DE BOLIVIA

I. INTRODUCTION

In response to the request of the Government of the Republic of Bolivia, (hereinafter referred to as "Bolivia"), the Government of Japan decided to conduct the pre-feasibility study for the development of mining project in San Antonio Area (hereinafter referred to as "The Study"), in accordance with the Agreement on Technical Cooperation between the Government of Japan and the Government of Bolivia.

Accordingly the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the conduct of the technical cooperation programs of the Government of Japan, and the Metal Mining Agency of Japan (hereinafter referred to as "MMAJ"), the official agency for the conduct of technical cooperation for mineral exploration in the joint operation with JICA, will undertake the Study, in close cooperation with the authorities of the Government of Bolivia.

The present document sets forth the scope of work with regard to the Study.

II.OBJECTIVES OF THE STUDY

The main objective of the Study is to undertake the study considered necessary for the Mining Development - plan of San Antonio Area.

III.OUTLINE OF THE STUDY

- 1. The Study shall be conducted in Japanese fiscal year 1986.
- 2. The area to be studied is shown on the location map attached hereto.
- 3. The Study shall be carried out from the viewpoint of geology, mining engineering, processing and economics as indicated in annex.
- 4. Processing test and compilation of the data regarding the result of the Study shall be conducted in Japan.

IV. REPORT

JICA and MMAJ shall prepare and submit the report in Spanish to the Government of Bolivia.

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V. UNDERTAKINGS OF THE GOVERNMENT OF BOLIVIA

- 1. The Government of Bolivia will accord privileges, immunities and other benefits to the Japanese survey team in accordance with the Agreement on technical cooperation between the Government of Japan and the Government of Bolvia.
- To facilitate smooth conduct of the Study, the Government of Bolivia shall take necessary measures:
 - (1) To secure the safty of the Japanese study team.
 - (2) To permit the members of the Japanese study team to enter, leave and sojourn in Bolivia 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 brought into Bolivia for the conduct of the Study.
 - (4) To provide necessary facilities to the Japanese study team for unrestricted re-export of equipment and machinery brought into Bolivia for the conduct of the Study.
 - (5) 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 conduct of the Study.
 - (6) To provide necessary facilities to the Japanese study team for remittance as well as utilization of the funds introduced into Bolivia from Japan in connection with the conduct of the study.
 - (7) To secure permission for entry into the study area for execution of the field study.
 - (8) To secure permission for the study team to take all data document and specimen including photographs related to the study out of Bolivia.

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- (9) To provide medical services as needed. Its expenses will be chargeable on members of the Japaneses study team.
- (10) To secure permission to use walkie-talkies and other wireless telecommunications for execution of the field sutdy.
- (11) To provide services of liaison staff, local guides, laborers, drivers etc. required for the Study, the cost of which will be borne by the Japanese study team.
- 3. The Government of Bolivia bear claims, if any arises against members of the Japanese study team resulting from, occuring in the course of, or otherwise connected with the discharge of their duties in the conduct of the Study, except when such claims arise from gross negligence or wilful misconduct on the part of the members of the Japanese study team.
- 4. Corporacion Minera de Bolivia (hereinafter referred to as "COMIBOL") 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 conduct of the Study.
- 5. COMIBOL shall, at its own expense, provide the Japanese study team with following:
 - (1) Available data and information related to the Study.
 - (2) Counterpart personnel including one geologist to work for the Study as a head of the Bolivian participants.
 - (3) Suitable office space with the necessary equipment in La Paz and/or Oruro.
 - (4) Credentials or identification cards.

VI. UNDERTAKINGS OF JICA AND MMAJ

For the conduct of the Study, JICA and MMAJ shall take the following measures:

- 1. To dispach the study team to Bolivia.
- 2. To bear the cost of field and laboratory work, international travel and living allowances in Bolivia for the Japanese study team.

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