

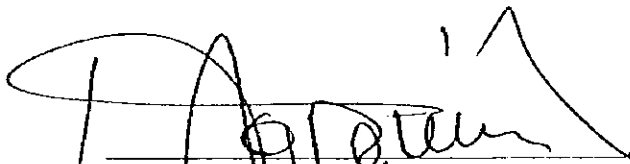
APENDICES

APENDICE-1
ALCANCES DE LOS TRABAJOS

**MINUTES OF MEETING
ON
SCOPE OF WORK
FOR
THE STUDY
ON
AGRICULTURAL DEVELOPMENT
FOR
THE REGION 2 AND 4
IN
THE PACIFIC COAST
IN
THE REPUBLIC OF NICARAGUA**

**AGREED UPON BETWEEN
MINISTERIO DE AGRICULTURA Y GANADERIA
AND
JAPAN INTERNATIONAL COOPERATION AGENCY**


Managua, 20 March, 1997



Dr. Horacio Jarquim Delgado
Vice Minister,
Ministerio de Agricultura y Ganadería
(MAG)



Mr. Noboru Saito
Leader,
Preparatory Study Team,
Japan International Cooperation
Agency (JICA)



Ms. Isolda Frixione Miranda
Directora General Gestión Bilateral
Ministerio de Cooperación Externa
(MCE)

In response to the request of the Government of Nicaragua (hereinafter referred to as "GON"), the Government of Japan (hereinafter referred to as "GOJ") decided to dispatch through Japan International Cooperation Agency (hereinafter referred to as "JICA"), which is responsible for the implementation of technical cooperation programs of GOJ, the preparatory study team (hereinafter referred to as "the Team") headed by Mr. Noboru Saito, to Nicaragua from March 11th to March 27th, 1997 so as to discuss and exchange views on the study with Ministerio de Agricultura y Ganaderia (hereinafter referred to as "MAG"), and officials concerned of GON for the implementation of the study.

MAG and the Team mutually agreed to the Scope of Work for the Study on Agricultural Development for the Region 2 and 4 in the Pacific Coast in the Republic of Nicaragua (hereinafter referred to as "the Study").

The following minutes were prepared to confirm the main issues discussed and matters agreed upon by both sides in connection. The list of participants in a series of meetings is attached as ANNEX 1.

1. Identifying the projects to conduct a Feasibility study are principally based on the following criteria, for example:

- * To select area where the understanding for the necessity of the projects is deep among farmers and potential for organizing farmers is high.
- * To select area where potential of agricultural development(water resources, soil, etc.) is high.
- * To select area where condition of marketing is comparatively good and demonstration effect is high.
- * To select area where possibility to diversify crops is high and conversion to non-traditional crops is expected in the near future from traditional crops.
- * To select area where rehabilitation and construction of agricultural infrastructures(irrigation facilities, etc.) are urgently required.

2. For the smooth implementation of the Study, both sides agreed upon the necessity of establishing a Steering Committee for the Study. The Steering Committee will be formed comprising the following institutions:

Ministerio de Agricultura y Ganaderia (MAG) - coordinator
Ministerio del Ambiente y de los Recursos Naturales (MARENA)
Instituto Nicaraguense de Reforma Agraria (INRA)
Instituto Nicaraguense de Tecnologia Agraria (INTA)
Programa Nacional de Desarrollo Rural (PNDR)
Ministerio de Cooperacion Externa (MCE)
Embassy of Japan(EOJ) - observer

3. The work for topographic mapping will be conducted as a part of the study between Phase I and Phase II, which will take about five(5) months, in case it is considered as necessary.
4. The concept of the Pilot Study was discussed and agreed in principle based on the paper attached as ANNEX 2.
The Nicaraguan side will guarantee the operation and maintenance of the pilot study farm.
5. MAG requested that the additional vehicles and necessary equipment (personal computer, copying machine, etc.) for the study other than provided by Nicaraguan side and should be provided by JICA. The Team promised to convey the request to the GOJ.
6. MAG requested that the counterpart personnel training in Japan related to the study to promote an effective technology transfer. The Team promised to convey this request to GOJ.
7. The Final Reports shall be opened to public whenever it shall be requested.

LIST OF PARTICIPANTS

1. Nicaraguan Side

1) MAG

Alvaro Montalvan Pallais	Direccion General de Cooperacion Externa
Cecilia Baez Ordonez	Direccion General de Cooperacion Externa
Carmen Largaespada	Direccion Politicas y Programas
Eduardo Hanon	Direccion Politicas y Programas
Cidar Cardenas	Unidad Formuladora de Proyectos
Alberto Jose Morales	Unidad Formuladora de Proyectos
Ottoniel Saravia C.	Unidad Formuladora de Proyectos
Erwing Gutierrez	Direccion Delegaciones Regionales
Alvaro Icaza V.	Direccion Delegaciones Regionales
Luis Mejia Selva	Direccion Delegaciones Regionales
Francisco Montalvan	Delegado Regional II
Carlos M. Espinoza	Delegado Regional IV
Arkangel Abhaunza	Programa Agricola
Orlando Siu S.	Consultor

2) PNDR

Juan Jose Quintanilla	Region IV (PROSESUR)
Carlos Espinoza	Region II

3) MARENA

Damaso Barquero	Planif. Forestal
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4) INRA

Francisco Chevez H.	Direc. Planific.
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5) INTA

Danilo Montalvan	Cooperacion Externa
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6) MCE

Alejandro Maltez	Consultor
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2. Japanese Side

1) Preparatory Study Team

Noboru Saito	Leader
Tomoki Sato	Member
Shigeru Nishihara	Member
Kenichiro Kobayashi	Member
Yoshitaka Ishikawa	Member

2) Embassy of Japan

Satoshi Uematsu	Second Secretary
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The Pilot study on Agricultural Development for the region 2 and 4 in the Pacific Coast

1. Justification of the Pilot Study

In the study area, the rural economy has deteriorated due to a considerable drop in the cotton price. There is an urgent need to establish more productive agricultural system including the introduction of new crop varieties and technologies as well as the provision of agricultural infrastructure.

Groundwater is the main water source for agriculture in the study area. Irrigation development with more sophisticated groundwater exploitation seems to have a great potential and is likely to be given a priority for the agricultural development in the area. Appropriate farming systems and the operation and maintenance are the key factors to determine the sustainability of such project. Thus the pilot study is proposed in order to verify the sustainability of groundwater irrigation and to identify possible difficulties and problems which might arise in due course. Based on these close monitoring and evaluation of the pilot study, it makes it possible to formulate plans that are more feasible and realistic to be implemented.

In addition to the existing wells, if necessary, a new well will be dug to carry out pumping tests and to monitor the groundwater level. This new well will serve as water source for the irrigation component for the pilot study.

2. Outline of the pilot study

(1) Objectives

1) During the phase III, the activities proposed in the study (e.g. introduction of new crops) will be put into practice on a small scale. It is intended to examine whether the groundwater reserve will be the sustainable water supply source for irrigation proposed in the study as well as to identify difficulties and problems that are not fully addressed in the initial plan. These findings will be taken into consideration prior to the formation of the plan on a full scale.

2) The pilot study will offer opportunities to transfer new technologies on irrigation farming to the Nicaraguan counterparts and local farmers through practical training on the ground. At the same time, the pilot farm is expected to have a demonstration effect to the surrounding areas.

(2) The Location

An appropriate area selected in the Region 2 with the high groundwater potential

(3) Pilot Farms

1) The number of farmers to participate in the pilot study

About 10 households : a part of one polo preferably

2) Area to be irrigated

About 10 ha : the area which could be irrigated by the groundwater tapped from one well.

3) Crops to be planted

Will be decided

4) The design of the facilities (tentative)

Whether the following facilities and equipment will be provided by the Japanese side or not will be examined as soon as the details are agreed upon. The proposed designs specified in the below are subjected to changes in the course of the study.

a) Well (test well is used)

b) Pumping facilities

Pump (head 30-50m and 10 l/s)

Dynamo (20 HP)

Switchboard

Shed

c) Irrigation facilities

Main pipeline

Movable sprinkler

(4) Monitoring activities on the pilot farm

a) The ground-water level and the water quality (the monitor of the ground-water level and the water quality are conducted other existing wells).

b) Underground water use (pump up results and irrigation results, etc.)

c) Operation and maintenance (pump operation condition and operation and maintenance organization activity condition, etc.)

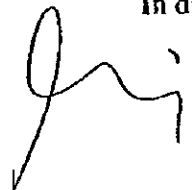
d) Farming (growing condition, yield, and farming work)

e) Farm household economy (farming cost and earnings)

3. Action of the Study Team

(1) The Study Team dispatch schedule to Nicaragua

In dry season (from November to April) and in rainy season (from May to October) ; 2 seasons,



respectively.

Japanese side will decide a period that the study team is dispatched in obedience to farming pattern etc.

(2) Matters by which study and guidance are done

Irrigation technique (Irrigation volume of water, time, and method etc.)

Operation and maintenance (operation and organization etc.)

Farming guidance

Additional, advice to various problems

Japanese side will dispatch experts (e.g. experts in irrigation, farming, operation and maintenance).

4. Activities to be done by the Nicaraguan side for the pilot study

(1) In order for the pilot study to succeed, farmers will have to be the main actors to implement the plan with the assistance and advice from government staff in accordance with the pilot study plan (e.g. farming system, operation and maintenance, implementing mechanism), which will be formulated by the study team in close cooperation with the Nicaraguan side. The Nicaraguan government should also be actively involved in the implementation of the pilot study, for example, collecting data and information (keeping records of on-farm activities from planting to harvesting, operating hours of pumps, amount of fertilizers and pesticides applied, etc.).

(2) Prior to the selection of the pilot farms, the candidates will be selected with consultation between MAG and the farmers who will be the beneficiary in the region.

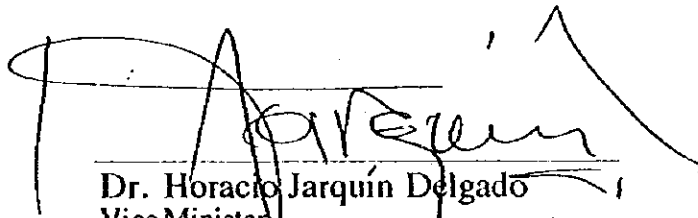
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**SCOPE OF WORK
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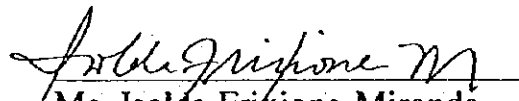
Managua, 20 March, 1997



Dr. Horacio Jarquín Delgado
Vice Minister
Ministerio de Agricultura y Ganadería
(MAG)



Mr. Noboru Saito
Leader,
Preparatory Study Team,
Japan International Cooperation
Agency (JICA)



Ms. Isolda Frixione Miranda
Directora General Gestión Bilateral
Ministerio de Cooperación Externa
(MCE)

I. Introduction

In response to the request of the Government of the Republic of Nicaragua (hereinafter referred to as "GON"), the Government of Japan (hereinafter referred to as "GOJ") has decided to conduct the Study on Agricultural Development for the Region 2 and 4 in the Pacific Coast in the Republic of Nicaragua (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 technical cooperation programs of GOJ, will undertake the Study in close cooperation with the authorities concerned of GON.

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 for agricultural development for region 2 and 4 in the pacific coast in the Republic of Nicaragua,
2. To conduct a Feasibility Study to formulate development plans prioritized in the Master Plan, to execute a pilot study in the selected area identified in the course of the study, and
3. To carry out technology transfer to the Nicaraguan counterpart personnel through on -the-job training in the course of the Study.

III. Study area

The Study area are Region 2 (approximately 9,900km²) and 4 (approximately 4,700km²) in the Pacific coast.

IV. Scope of the Study

In order to achieve the above objectives, the Study will consist of three (3) phases and the following items.

1. Phase I (Master Plan Study for Region 2 and 4)

1.1. To review the existing development plans and policies.

1.2. To collect, review and analyze relevant existing data and information and field survey:

(1) Natural condition

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

(2) Social and economic condition

- a. population
- b. household
- c. gender issues
- d. employment
- e. regional economy
- f. farmers' economy
- g. land tenure
- h. rural and social infrastructure
- i. agricultural credit
- j. others

(3) Agricultural condition

- a. land use and cropping pattern
- b. agricultural production
- c. livestock production
- d. irrigation and drainage system
- e. water management
- f. agricultural facility and infrastructure
- g. farmers' organizations
- h. agricultural supporting system
- i. postharvest and marketing system
- j. others

(4) Environmental conditions

- a. natural condition
- b. social condition
- c. others

(5) Other information related to the project

- a. administrative organization
- b. others

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1.3. To identify development needs and constraints.

1.4. To formulate basic development plan, considering the following points:

- (1) Land use
- (2) Farm management
- (3) Livestock production
- (4) Irrigation and drainage
- (5) Agricultural and rural infrastructure
- (6) Investigation, agricultural extension and supporting system
- (7) Agricultural credit
- (8) Postharvest and marketing system
- (9) Farmers' organization

1.5. Initial Environmental Examination (IEE) .

1.6. To select priority projects for the feasibility study in Phase II .

2. Phase II (Feasibility study for selected projects)

2.1. To collect additional data and information, and detailed field survey.

2.2. To conduct feasibility study for the selected projects, considering the following points:

- (1) Land use
- (2) Farm management
- (3) Livestock production
- (4) Irrigation and drainage
- (5) Agricultural and rural infrastructure
- (6) Operation and maintenance
- (7) Investigation, agricultural extension and supporting system
- (8) Agricultural credit
- (9) Postharvest and marketing system
- (10) Farmers' organization
- (11) Environmental conservation
- (12) Preliminary design of major structures
- (13) Estimation of the projects cost and benefit

2.3. To conduct test well drilling, pumping test, and to collect data, if necessary

2.4. To prepare implementation schedule

2.5. To evaluate the projects

2.6. To formulate pilot study plan, with the following components:

- (1) Inventory survey on actual conditions of communities in the selected



area

- (2) Selection of a community for the pilot study
- (3) Planning for pilot study (facilities, crop production, extension, groundwater observation, operation and maintenance, etc.)

2.7. To make preliminary recommendations

3. Phase III (The pilot study implementation and final recommendations)

3.1. To implement the pilot study

- (1) Construction of the facilities for the pilot study
- (2) Monitoring of groundwater use condition
- (3) Monitoring of crop production
- (4) Monitoring of operation and maintenance
- (5) Evaluation of the pilot study and feedback for the development plan

3.2. To make final recommendations

V. Study schedule

The Study will be carried out in accordance with the attached tentative work schedule.(ANNEX 1)

VI. Reports

JICA shall prepare and submit the following reports in Spanish to GON.

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 in Spanish and English (only Main Report) at the end of the Phase II home office work. GON shall submit their comments within one (1) month after the receipt of the Draft Final Report.

In case any doubt arises in interpretation, English text shall prevail.



6. Monitoring Progress Report(1)

Twenty(20) copies around the halfway of Phase III.

7. Monitoring Progress Report(2)

Twenty(20) copies at the end of Phase III. GON shall submit their comments within one (1) month after the receipt of the Monitoring Progress Report(2).

8. Final Report

Fifty (50) copies in Spanish and English (only Main Report) within four (4) months after the receipt of the comments by Nicaragua on the Monitoring Progress Report(2).

In case any doubt arises in interpretation, English text shall prevail.

VII. Undertakings of GON

1. To facilitate the smooth conduct of the Study, GON will take the following necessary measures:

(1)To inform members of the Japanese study team (hereinafter referred to as "the Team") any existing risk in the Study area and to take any measures deemed necessary to secure the safety of the Team.

(2)To permit the members of the Team to enter, leave and sojourn in Nicaragua for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees,

(3)To exempt the members of the Team not only from taxes on purchase of equipment and other materials as well as services required for the conduct of the Study, but from taxes, duties, fees and any other charges on equipment, and other materials brought into Nicaragua for the conduct of the Study,

(4)To exempt the members of the 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 Team for their services in connection with the implementation of the Study,

(5)To provide necessary facilities to the Team for the remittances as well as the utilization of the funds introduced into Nicaragua from Japan in connection with the implementation of the Study,

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(6) To take necessary action to obtain permission for the Team to enter into private properties or restricted areas for the implementation of the Study,

(7) To secure permission for the Team to take all data and documents including photographs and maps after authorization by responsible organizations concerned, related to the Study out of Nicaragua to Japan,

(8) To provide medical services in case of necessity, and the fees shall be chargeable to the members of the Team.

2. GON shall bear claims, if any arises, against the members of the 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 Team.

3. Ministerio de Agricultura y Ganaderia (hereinafter referred to as "MAG"), shall act as a counterpart agency to the Team and also as coordinating body in relation with other relevant organizations for the smooth implementation of the study.

4. MAG shall, at its own expense, provide the Team with the following, in cooperation with other relevant organizations;

(1) Available data and information related to the Study,

(2) Additional survey related to the Study, if necessary,

(3) Counterpart personnel and supporting staff,

(4) Suitable office space with necessary equipment in Managua and selected project areas,

(5) Credentials or identification cards, and

(6) Necessary number of vehicles with drivers.

VIII. Undertakings 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 Nicaragua,

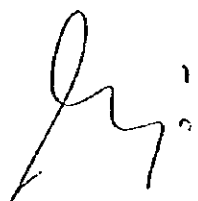
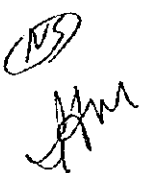
2. To pursue technology to counterparts personnel in the course of the Study.

IX. Consultation

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

X. Translation

The Scope of Work is prepared both in English and in Spanish, and the both versions are signed by the both parties. In case any doubt arises in interpretation, the English text shall prevail.

A handwritten signature in black ink, appearing to be 'J. G.' or similar, located on the left side of the page.Handwritten initials or a signature in the bottom right corner, possibly 'JMS' or 'J.M.', with a circled mark above it.



ANNEX 1

TENTATIVE WORK SCHEDULE

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
ITEM																																					
Works in the Nicaragua																																					
Works in Japan																																					
Phase	← PHASE I →										← PHASE II →										← PHASE III →																
Report	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	
	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	Ic/R	P/R(I)	

- (Remarks)
- Ic / R : Inception Report
 - P / R(I) : Progress Report(1)
 - It / R : Interim Report
 - P / R(II) : Progress Report(2)
 - Df / R : Draft Final Report
 - M / R(I) : Monitoring Progress Report(1)
 - M / R(II) : Monitoring Progress Report(2)
 - F / R : Final Report
 - ◎ : Comments on Df / R or M/R(II) by the Nicaragua side



APENDICE-2
MINUTAS DE REUNION

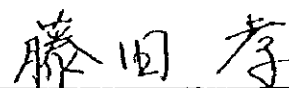
MINUTES OF MEETING
ON
THE INCEPTION REPORT
FOR
THE STUDY
ON
AGRICULTURAL DEVELOPMENT
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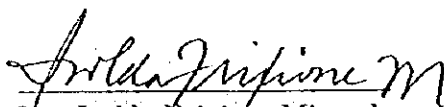
Managua, 26 August, 1997



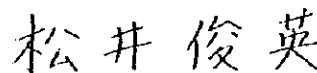
Ing. Juan F. Rodriguez
Secretario General
Ministerio de Agricultura y Ganadería



Mr. Takashi Fujita
Leader of Study Team
Japan International
Cooperation Agency (JICA)



Ing. Isolda Frixione Miranda
Directora General Gestión Bilateral
Ministerio Cooperación Externa



Mr. Toshihide Matsui
Leader of Advisory Mission
Japan International
Cooperation Agency (JICA)

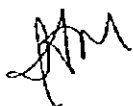
In accordance with the Scope of Work for the Study on Agricultural Development for the Region II and IV in the Pacific Coast in the Republic of Nicaragua (hereinafter referred to as "the Study") signed by the Government of the Republic of Nicaragua (hereinafter referred to as "the Government") and the Government of Japan on 20 March, 1997, the Government of Japan dispatched a JICA Study Team.

The JICA Study Team headed by Mr. Takashi Fujita submitted and explained the Inception Report on 20 August, 1997, under the attendance of the JICA Advisory Committee headed by Mr. Toshihide Matsui, to the Government headed by Mr. Juan F Rodriguez and to the Nicaraguan officials members involved to the present Study, at the same time exchange of opinions was made between the Nicaragua side and the Study Team.

As the result of the said explanation and an exchange of opinions, the Nicaragua side and the Study Team have agreed the following:

1. The Government received from the Study Team twenty (20) copies of the Inception Report in Spanish.
2. The Government has agreed with the contents of the Inception Report and study schedule.
3. The Study Team requested to the Government to assign one counterpart personnel for each Japanese expert.
4. The Study Team requested to the Government to provide suitable office space with necessary facilities in Managua as in Region II and IV .
5. The Study Team requested to the Government to provide necessary vehicles and drivers.

This Minutes of Meeting is prepared in English and Spanish. In case that any discrepancy may arise between these two versions, the English version shall prevail.



List of Participants

1. Nicaraguan side

1) Ministerio de Agricultura y Ganadería(MAG)

Juan F. Rodriguez	Secretario General
Alvaro Montalvan	Director Cooperación Externa
Alvaro Icaza V.	Director Delegaciones Regionales
Erwing Gutierrez	Dirección Delegaciones Regionales
Francisco Montalvan	Delegado Regional II
Carlos Manuel Espinosa	Delegado Regional IV
Eduardo Marín Castillo	Asesor en Planificación de la Tierra
Dinorah S. Moreno	Asist. Técnico Administrativo OPSA
María Auxiliadora Espinoza	Consultor OPSA
Arkangel Abaunza	Consultor OPSA
Eduardo Hanón	Consultor OPSA
Carmen Largaespada	Consultor OPSA
Víctor Tercero	Consultor OPSA
Augusto Oporta T.	Consultor IDC

2) Instituto Nicaragüense de Tecnología Agropecuaria(INTA)

Danilo Montalvan Duarte	Asistente Director General
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3) Ministerio de Cooperación Externa(MCE)

Alejandro Maltez M.	Consultor Cooperación Japonesa
Minoru Arimoto	Asesor Especial


2. Japanese side

1) Japan International Cooperation Agency (JICA)

Toshihide Matsui	Leader of Advisory Mission
Kazumi Yoshihara	Study Administration

2) The JICA Study Team

Takashi Fujita	Team Leader
Takahisa Isozuka	Agricultural and Rural Infrastructure
Zetsugaku Kurita	Agronomy
Akira Nakamura	Hydrology / Meteorology
Tomofumi Masuoka	Translator
Hideki Hiroshige	Coordinator



MINUTES OF MEETING
ON
THE PROGRESS REPORT (1)
FOR
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AGREED UPON BETWEEN
MINISTERIO DE AGRICULTURA Y GANADERIA
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

Managua, December 9, 1997



Lic. Juan F. Rodríguez
Secretario General
Ministerio de Agricultura y Ganadería



Mr. Takashi Fujita
Leader of Study Team
Japan International
Cooperation Agency (JICA)

In accordance with the Scope of Work for the Study on Agricultural Development for the Region II and IV in the Pacific Coast in the Republic of Nicaragua (hereinafter referred to as "the Study") signed by the Government of the Republic of Nicaragua (hereinafter referred to as "the Government") and the Government of Japan on March 20, 1997, the Government of Japan dispatched a JICA Study Team.

At the end of the field survey of the Phase I Study, the Study Team headed by Mr. Takashi Fujita submitted the Progress Report (1) and explained its contents with an emphasis on the results of data collection, its analyses, present conditions of the Study Area, and the basic concept of the Master Plan, on December 1 1997, to the Government represented by Mr. Mario A. De Franco. On December 5, a second meeting was carried out in order to exchange opinions between the both sides and to receive the Nicaraguan's comments, being represented by Mr. Juan P. Rodriguez.

After presentation made by the Study Team, Nicaraguan and Japanese side exchanged opinions and agreed upon the following:

1. The Government received from the Study Team twenty (20) copies of the Progress Report (1) in Spanish.
2. The Government has agreed with the contents of the Progress Report (1) and basic concept of the Master Plan.

This Minutes of Meeting is prepared in English and Spanish. In case that any discrepancy may arise between these two versions, the English version shall prevail.



List of Participants

1. Nicaraguan side

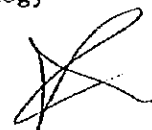
Ministerio de Agricultura y Ganadería (MAG)

Mario A. De Franco	Ministro
Juan F. Rodríguez	Secretario General
Alvaro Montalvan	Director Cooperación Externa
Alvaro Icaza	Director General Delegados Regionales
Luis Alberto Tercero	Director General de la DGIAP
Eduardo Marín Castillo	Asesor en Planificación de la Tierra
Arkangel Abaunza	Consultor OPSA
Eduardo Hanón	Consultor OPSA
Carmen Largaespada	Consultor OPSA
Roger Paguaga	Consultor OPSA
Orlando Siu	Consultor OPSA
Juan Velásquez	Consultor OPSA
Víctor Tercero	Consultor OPSA
Juan Sebastián Chamorro	Consultor OPSA

2. Japanese side

The JICA Study Team

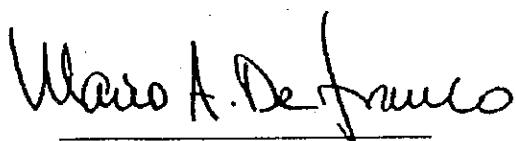
Takashi Fujita	Team Leader
Takahisa Isozuka	Agricultural and Rural Infrastructure
Zetsugaku Kurita	Agronomy
Yasushi Wada	Rural Society
Tatsuo Tashino	Agro-economy / Project Evaluation
Akira Nakamura	Hydrology / Meteorology
Tomofumi Masuoka	Interpreter
Hideki Hiroshige	Coordinator



MINUTES OF MEETING
ON
THE INTERIM REPORT
FOR
THE STUDY
ON
AGRICULTURAL DEVELOPMENT
FOR
THE REGION II AND IV
IN
THE PACIFIC COAST
IN
THE REPUBLIC OF NICARAGUA

AGREED UPON BETWEEN
MINISTERIO DE AGRICULTURA Y GANADERIA
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

Managua, 17 April, 1997

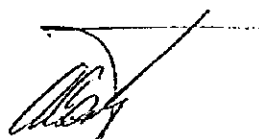


Dr. Mario A. De Franco
Ministro
Ministerio de Agricultura y Ganadería

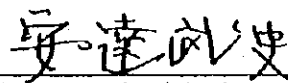


Mr. Takashi Fujita
Leader of Study Team
Japan International
Cooperation Agency (JICA)

Witness by



Ing. Adolfo Evertsz Vélez
Director General de Gestión
Ministerio Cooperación Externa



Mr. Takeshi Adachi
Leader of Advisory Mission
Japan International
Cooperation Agency (JICA)

In accordance with the Scope of Work for the Study on Agricultural Development for the Region II and IV in the Pacific Coast in the Republic of Nicaragua (hereinafter referred to as "the Study") signed by the Government of the Republic of Nicaragua (hereinafter referred to as "the Government") and the Government of Japan on 20 March, 1997, the Government of Japan dispatched a JICA Study Team.

The JICA Study Team headed by Mr. Takashi Fujita submitted and explained the Interim Report on 17 April, 1998, under the attendance of the JICA Advisory Committee headed by Mr. Takeshi Adachi, to the Government headed by Dr. Mario A. De Franco and to the Nicaraguan officials members involved with the present Study. At the same time, an exchange of opinions was made between the Nicaragua side and the Study Team.

As the result of the above mentioned explanation and an exchange of opinions, the Nicaragua side and the Study Team have agreed on the following points:

1. The Government received from the Study Team twenty (20) copies of the Interim Report in Spanish.
2. The Government requested the Final Report on the Master Plan to be presented as soon as possible. The Study Team promised to present the Report to the Government at the beginning of the Phase III (monitoring stage).
3. The Government mentioned that it will present to the Study Team the comments on the Interim Report during its stay in Nicaragua. The Study Team will analyze the comments and incorporate them, where relevant, into the Final Report of the Master Plan.
4. The Study Team explained the scope of the Feasibility Study and the methodology to be applied. The Government understood and accepted the explanation.
5. Discussions on the responsibilities for actions to be taken in the Pilot Study by the governments of Nicaragua and Japan and the beneficiaries took place. The Government and the Study Team agreed to further discuss the matter during the stay of the Study Team in Nicaragua. The final agreement on the matter will be made before the departure from Nicaragua of the Study Team.
6. The Study Team requested to the Government to assign one counterpart personnel for each Japanese expert and the counterpart for preparation of the Pilot Study.
7. The Study Team requested to the Government to provide suitable office space with necessary facilities in Managua as in Region II and IV.
8. The Study Team requested to the Government to provide necessary vehicles.

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List of Participants

1. Nicaraguan side

1) Ministerio de Agricultura y Ganadería (MAG)

Mario De Franco	Ministro
Horacio Jarquín	Vice-Ministro
Juan F. Rodriguez	Secretario General
Carlos Arce	Asesor Ministro
Alvaro Montalván	Director Cooperación Externa
Arkangel Abaunza	Consultor OPSA
Nestor Avedaño	Consultor OPSA
Roger Paguaga	Consultor OPSA
Eduardo Hanón	Consultor OPSA
Eduardo Marín Castillo	Asesor en Planificación de la Tierra
Juan Velásquez	Consultor OPSA
Jorge Luis Dubón	Consultor OPSA

2) Ministerio de Cooperación Externa (MCE)

Adolfo Evertsz Vélez	Director General de Gestión
Isolda Frixione M.	Directora Gestión Bilateral
Auxiliadora Vindel R.	Responsable del Dpto. Japón
Minoru Arimoto	Asesor Especial
Alejandro Maltez M.	Consultor Cooperación Japonesa

2. Japanese side

1) Japan International Cooperation Agency (JICA)

Takeshi Adachi	Leader of Advisory Mission
Kazuya Suzuki	Study Administration

2) The JICA Study Team

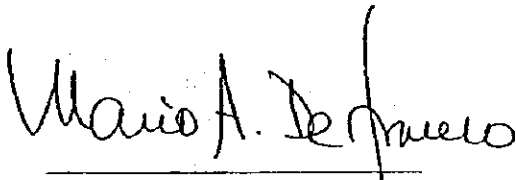
Takashi Fujita	Team Leader
Takahisa Isozuka	Agricultural and Rural Infrastructure
Zetsugaku Kurita	Agronomy
Yasushi Wada	Rural Society, Gender and Farmer's Organization
Akira Nakamura	Hydrology / Meteorology
Ruriko Tamate	Interpreter



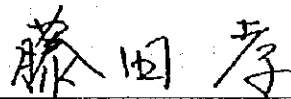
MINUTES OF MEETING
ON
THE PROGRESS REPORT (II)
FOR
THE STUDY
ON
AGRICULTURAL DEVELOPMENT
FOR
THE REGION II AND IV
IN
THE PACIFIC COAST
IN
THE REPUBLIC OF NICARAGUA

AGREED UPON BETWEEN
MINISTERIO DE AGRICULTURA Y GANADERIA
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

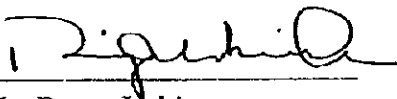
Managua, June 22nd, 1998



Dr. Mario A. De Franco
Minister
Ministry of Agriculture, Livestock,
and Forestry



Mr. Takashi Fujita
Leader of Study Team
Japan International
Cooperation Agency (JICA)



Mr. Roger Urbina
General Director
Nicaraguan Institute of
Agricultural Technology

In accordance with the Scope of Work for the Study on Agricultural Development for the Region II and IV in the Pacific Coast in the Republic of Nicaragua (hereinafter referred to as "the Study") signed by the Government of the Republic of Nicaragua (hereinafter referred to as "the Government") and the Government of Japan on 20 March, 1997, the Government of Japan dispatched a JICA Study Team.

The JICA Study Team headed by Mr. Takashi Fujita submitted and explained the Progress Report (II) on June 22th, 1998, to the Government headed by Dr. Mario A. De Franco and to the Nicaraguan officials members involved with the present Study. At the same time, an exchange of opinions was made between the Nicaragua side and the Study Team.

As the result of the above mentioned explanation and an exchange of opinions, the Nicaragua side and the Study Team have agreed on the following points:

1. The Government received from the Study Team twenty (20) copies of the Progress Report (II) in Spanish.
2. The Government presented the comments on the Master Plan which will be taken into consideration for the preparation of the Final Report on the Master Plan.
3. The Study Team explained the scope of the Progress Report (II) which dealt with the actual conditions of the Study Areas for the Feasibility Study and the methodology to be applied for the development of the Feasibility Study and the Pilot Study and its location. The Government understood and accepted the explanation.
4. The Study Team explained to the Government that the specific technical and financial details of the Feasibility Study and the Pilot Study will be studied in Japan. The results of the investigation will be explained in the Draft of the Final Report to be presented to the Government at the beginning of the Stage III of the Project.
5. Discussions on the responsibilities for actions to be taken in the Pilot Study by the governments of Nicaragua (MAG, INTA) and Japan took place. The Government and the Study Team agreed on the aspects concerning financial responsibilities to be taken jointly and separately by both sides.
6. The Government (MAG, INTA) accepted to assign adequate personnel for the implementation of the Pilot Study at the headquarters and regional levels.

This Minutes of Meeting is prepared in English and Spanish. In case that any discrepancy may arise between these two versions, the English version shall prevail.

UAT

Ruiz
(Signature)

List of Participants

1. Nicaraguan side

1) Ministerio de Agricultura y Ganadería (MAG)

Mario De Franco	Ministro
Juan F. Rodriguez	Secretario General
Arkangel Abaunza	Asesor
Eduardo Marin	Asesor
Alvaro Icaza	Director Delegaciones Regionales
Orlando Siu	Especialista en Proyectos
Antonio Reyes	Delegado Region II
Dionisio Soto	Asistente de la Dirección
Pedro Ruiz	Coordinador de Facilitadores (Region II)
Josefina Mendoza	Facilitadora (Región II)
Alcides Morales	Facilitador (Región II)

2) Nicaraguan Institute of Agricultural Technology (INTA)

Roger Urbina	Director General
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2. Japanese side

The JICA Study Team

Takashi Fujita	Team Leader
Takahisa Isozuka	Agricultural and Rural Infrastructure
Zetsugaku Kurita	Agronomy and Rural Extension
Yasushi Wada	Rural Society, Gender and Farmer's Organization
Joji Tokeshi	Agro-economy, Project Evaluation
Akira Nakamura	Hydrology / Meteorology
Daigo Yano	Design and Cost Estimation
Akeshi Mori	Agro-industry and Commercialization, Seeds Production Equipment
Hiroshi Ikeda	Seeds Production and Extension
Ruriko Tamate	Interpreter

APENDICE-3
LISTA DE MIEMBROS

Miembros del Equipo de Estudio JICA y Personal Contraparte Nicaraguense

Asignación	Equipo de Estudio JICA	Personal de Contraparte de Managua	Personal de Contraparte de León
Jefe de Equipo	Takashi Fujita	Lic. Juan F. Rodríguez R.	Francisco Montalván
Infraestructura Rural	Takahisa Isozuka	Eduardo Marín	
Agronomía/ Extensión	Zetsugaku Kurita	Arkángel Abaunza	Pedro Rubí Rolando Rivas (INTA)
Sociología, Género y Organización Campesina	Yasushi Wada	Carmen Largaespada	Juan Alcides Morales Ramona J. Mendoza
Economía Agrícola y Evaluación del Proyecto	Joji Tokeshi	Alvaro Icaza Orlando Siu	Ángel Navarrete (INTA)
Industria Agrícola y Comercialización	Akeshi Mori	Róger Paguaga	
Meteorología e Hidrología	Akira Nakamura	Eduardo Hanon	Ajax Fonseca (INTA)
Medio Ambiente	Tsukasa Kishimoto	Victor Tercero Arnoldo Paniagua	
Diseño y Estimación de Costos	Daigo Yano	Eduardo Hanon	
Geología	Hideki Mori	Eduardo Hanon	Ajax Fonseca (INTA)
Producción de Semillas y Extensión	Hiroshi Ikeda	César Boza José Bravo (INTA)	Freddy García (INTA Región IV)
Topografía y Geodesia	Shinichi Kono	Eduardo Hanon	
Intérprete	Ruriko Tamate		

Nota: Salvo en caso de ser especificado, las contrapartes pertenecen al MAG.

JICA