## MINUTES OF MEETING AMONG

JAPAN INTERNATIONAL COOPERATION AGENCY, AUTHORITIES CONCERNED OF THE GOVERNMENT OF FEDERATIVE REPUBLIC OF BRAZIL

AND AUTHORITIES CONCERNED OF THE GOVERNMENT OF REPUBLIC OF MOZAMBIQUE ON TRIANGULAR COOPERATION

FOR THE PROJECT FOR IMPROVING RESEARCH AND TECHNOLOGY
TRANSFER CAPACITY FOR NACALA CORRIDOR
AGRICULTURE DEVELOPMENT, MOZAMBIQUE

The Detailed Planning Survey Team (hereinafter referred to as "the Team") jointly organized by Japan International Cooperation Agency (hereinafter referred to as "JICA"), headed by Mr. Yoshiaki Kano, and by Brazilian Cooperation Agency (hereinafter referred to as "ABC") headed by Mr. Frederico Dimas de Paiva, visited the Republic of Mozambique from 9 August to 25 August, 2010 for the purpose of working the detail of the technical cooperation on the Project for Improving Research and Technology Transfer Capacity for Nacala Corridor Agriculture Development, Mozambique (hereinafter referred to as "the Project") in response to the request made by the Government of Republic of Mozambique.

During their stay in the Republic of Mozambique, the Team exchanged views and had a series of discussions with the Mozambican authorities concerned with respect to desirable measures to be taken by JICA, ABC and the Mozambique Government for the successful implementation of above mentioned Project.

As a result, the three parties have reached a mutual understanding regarding the matters referred to the documents attached hereto.

Maputo, 25 August, 2010

Mr. Yoshiaki Kano

Leader

**Detailed Planning Survey Team** 

Japan International Cooperation Agency

ederico Dimas de Paiva

eader

Brazilian Cooperation Agency (ABC)

Federative Republic of Brazil

Dr. Calisto António Laurinda Francisco Bias

General Director

Mozambique Agricultural Research Institute

Ministry of Agriculture Republic of Mozambique

Calisto #

#### **ATTACHMENT**

#### 1. BACKGROUND

Agriculture is one of the most important sectors for Mozambican economy, contributing to 23% of the country's gross national product (GNP) and employing about 80% of the total working population. The tropical savannah zone in northern part of the country has high potential for agricultural production because of its reliable rainfall pattern and a large area of cultivable land. In spite of estimates indicating a total of 36 million hectares of arable land is available in Mozambique, only 5.7 million hectares, 16% of the total, are actually being used. In addition, productivity of both self-sustenance crops and commercial crops are limited mostly due to the use of both, low inputs and traditional agricultural technology. Therefore it is foreseen an agriculture booming in agricultural production and productivity by introducing adequate technology and capital investment.

The Japan-Brazil Cooperation Programme for the Development of the Brazilian Cerrado, which started in the 70's, has implemented projects of technical and financial cooperation for about 20 years and made a great contribution not only to Brazil inland development but also to balancing the supply and demand for food in global standards by increasing food production. Through agricultural development of the Cerrado, Brazil has now a large knowledge related to sustainable agricultural development in tropical savannah zones. Based on these facts, the governments of Japan and Brazil have been investigating cooperation possibilities to assist some African countries in tropical savannah zone by transferring knowledge and technology accumulated through the Brazilian Cerrado development programmes. Considering its political stability and high agricultural potential in savannah area as mentioned before, Mozambique was nominated as the first beneficiary country of the Triangular Cooperation Programme for Agricultural Development of the African Tropical Savannah of Japan and Brazil (hereinafter referred to as the ProSAVANA -JBM").

The preparatory study on ProSAVANA-JBM which was conducted from September 2009 to March 2010, reported that It is clear that many aspects of the knowledge accumulated during the development projects at the Brazilian Cerrado and semi-arid can be applied to contribute in the increase of agricultural production at the Mozambique savannah". However, "there are significant differences between the Brazilian Cerrado region and the Mozambique savannah concerning socioeconomic conditions". Therefore, it is necessary to establish adequate "Agriculture Development Model" for Mozambique, which requires "results of research and investigation and the execution of pilot projects", as the first stage of the programme, thus, the project of Improving Research and Technology Transfer Capacity for Nacala Corridor Agriculture Development, Mozambique has been proposed by the Government of Mozambique.

In response to Mozambican Government that proposal, JICA and ABC dispatched a Detailed Survey Team in August 2010 in order to discuss with Mozambican authorities: 1 – the Project framework; 2 – the basic plan assessment; and 3 – the preliminary project evaluation.

#### 2. PURPOSES OF THE SURVEY MISSION

- 2-1. To develop a basic plan of the Project through site survey and a series of discussion with the related organizations
- 2-2. To conduct preliminary evaluation of the basic plan by examining the viability of the Project in terms of five evaluation criteria (Relevance, Efficiency, Effectiveness, Impact and Sustainability), using the Project Cycle Management (PCM) method
- 2-3. To sign M/M that includes the result of the discussions

125

2

## 3. MAJOR POINTS DISCUSSED AND AGREED AMONG THE THREE PARTIES

#### 3-1. Concept of the Project

- 3-1-1. The objective of the Project is to strengthen the capacity of the IIAM research centers in Northeast and Northwest, and to develop adequate agricultural technology and its transfer to farmers and other beneficiaries in Nacala Corridor.
- 3-1-2. The three parties confirmed that the Project is a technical cooperation and its activities are focused on the development of adequate agricultural technology for Nacala Corridor.
- 3-1-3. The Project will be implemented as a triangular cooperation among the Government of Japan, Brazil and Mozambique under the framework of the Japan Brazil Partnership Programme.

## 3-2. Title of the Project

The original title of the Project in the requested proposal is of the Project for Improving Research Capacity for Nacala Corridor Agriculture Development, Mozambique".

Taking into account the Purpose of the Project, the three parties agreed to change the title to "Project for Improving Research and Technology Transfer Capacity for Nacala Corridor Agriculture, Mozambique"

#### 3-3. Framework of the Project

As a result of the discussions, the framework of the Project is given as follows: the Tentative Master Plan (Annex 1), the Tentative Project Design Matrix (Annex 2), the Tentative Plan of Operation (Annex 3) and the Draft Record of Discussions (R/D) (Annex 4). Due to the Brazilian internal procedures, Brazil will send the input list to Japan and Mozambique until October 25, 2010. Based on this information, each of the three parties confirmed that the due approval will be obtained. In case of JICA, after going through its internal approval procedure the R/D will be formally signed by the Chief Representative of JICA Mozambique Office and the representative of Mozambique Agricultural Research Institute, on behalf of the Government of Mozambique. The framework of the Project will be finally confirmed when the R/D is signed. In case of Brazil, a Technical Cooperation Project document (PCT) will be formulated with all the activities, inputs and other related information of the Project which will be formally signed by representatives of the three parties.

3-4. Explanation of the Project purpose, Outputs and Activities of the Project The three parties confirmed the meaning of the Project purpose, Outputs and Activities described in the Master Plan (Annex 1) as follows.

## 3-4-1. Project Purpose

"Appropriate agricultural technology is developed and transferred in Nacala Corridor."

#### 3-4-2. Output 1

- "Capacity of IIAM research centers in Northeast and Northwest is strengthened."
- <Activities>
- <1-1.> To make installation/equipment inventory.
- <1-2.> To repair existent installation/equipment.
- <1-3.> To provide new research equipment.
- <1-4.> To construct experimental laboratory in Nampula and Lichinga.
- <1-5.> To train research center staff for usage and maintenance of facilities and equipment.
- <1-6.> To advise IIAM Research Centers on management.

M

1

- -

## 3-4-3. Output 2

"Natural resources and socio-economic conditions in Nacala Corridor are evaluated."

- <Activities>
- <2-1.> To evaluate soil and vegetation.
- <2-2.> To collect and analyze meteorological data.
- <2-3.> To collect and analyze water resources data.
- <2-4.> To collect and analyze landscape data.
- <2-5.> To assess the potentiality of crop/livestock production.
- <2-6.> To develop a land use plan for agricultural purpose.
- <2-7.> To survey socio-economic conditions.

#### 3-4-4. Output 3

"Soil improvement technology for Nacala Corridor is developed."

- <Activities>
- <3-1.> To develop soil improvement technology.
- <3-2.> To develop fertilization schemes/recommendation by crops.
- <3-3.> To develop soil conservation technology.

## 3-4-5. Output 4

"Appropriate cultivation technology in Nacala Corridor is developed."

- <Activities>
- <4-1.> To select appropriate crops/varieties.
- <4-2.> To develop appropriate seed production systems.
- <4-3.> To select appropriate microorganism for leguminous and other crops.
- <4-4.> To develop appropriate methods to enhance the access to water resources for agriculture purposes.
- <4-5.> To develop appropriate cropping systems

#### 3-4-6. Output 5

"New agricultural technology developed/validated is implemented in the demonstration units."

- <Activities>
- <5-1.> To select pilot farms and to establish demonstration units for crop/livestock.
- <5-2.> To organize technology transfer activities (seminars, field days, etc) on the demonstration units for farmers.
- <5-3.> To organize training courses for extension workers.
- <5-4.> To develop a Decision Support Model applicable for farmers to select appropriate cropping system.

#### 3-5. Mozambican Counterparts of the Project

- 3-5-1. Responsible agency
- Mozambique Agricultural Research Institute (IIAM), Ministry of Agriculture

W

B

#### 3-5-2. Implementing agencies

- Northeast IIAM Zonal Research Center
- Northwest IIAM Zonal Research Center

## 3-5-3. Cooperating agency (Provincial and District level)

- Provincial Directorate of Agriculture, Nampula Province
- Provincial Directorate of Agriculture, Niassa Province
- Provincial Directorate of Agriculture, Zambezia Province
- Other related organizations

#### 3-6. Target area of the Project

Nacala Corridor, Northern area of Mozambique

#### 3-7. Beneficiaries

Direct beneficiaries

- The staff of Northeast and Northwest IIAM Zonal Research Centers (about 218 staff)
- Farmers from pilot units and its surroundings

#### Indirect beneficiaries

- Farmers in Nacala Corridor (about 24% of all farmers households in Mozambique)

#### 3-8. Term of the cooperation

Five years (tentatively, from November 2010 to October 2015)

#### 3-9. Measures to be taken by JICA

- 3-9-1. Japanese experts
  - Chief Advisor of Japanese Team
  - Liaison Officer

Other Japanese experts will be dispatched when the necessity arises.

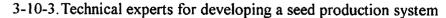
## 3-9-2. Training of Mozambican personnel in Japan and other countries

JICA will accept the Mozambican personnel related with the Project for technical training in Japan and other countries.

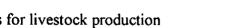
#### 3-9-3. Provision of equipment:

JICA will provide machinery, equipment and other necessary materials for the implementation of the Project.

- 3-9-4. Running expenses for the Project mostly related to Japanese experts
- 3-10. Measures to be taken by the Government of Brazil
  - 3-10-1. Brazilian research and extension experts
  - 3-10-2. Technical experts for the infrastructures needed (laboratories, pilot projects, seed processing unit, etc)



3-10-4. Technical experts for livestock production



- 3-10-5. Tropical agricultural technologies developed in Brazil
- 3-10-6. Provision of materials for management, monitoring and evaluation assessments
- 3-10-7. Provision of technical publications and multimedia materials related to tropical agriculture
- 3-10-8. Provision of laboratory equipment
- 3-10-9. Provision of Brazilian made machinery for small scale farmers, seedlings and seeds
- 3-10-10. Running expenses related to Brazilian experts
- 3-10-11. Training of Mozambican personnel in Brazil
- 3-11. Measures to be taken by the Government of Mozambique
  - 3-11-1. Assignment of Counterpart personnel

Qualified personnel will be assigned continuously to work with Japanese and Brazilian experts.

- 3-11-2. Necessary procedure to manage and use of the Equipment provided by JICA 3.-9-3 and by the Government of Brazil 3.-10-6 and 7 above.
- 3-11-3. Provision of office space for Japanese and Brazilian Experts, land for the pilot site(s) and facilities for the Project activities
- 3-11-4. Running expenses for the Project

Allowance and transportation cost for counterpart personnel and maintenance related costs of the office space and equipments provided

- 3-12. Administration of the Project
  - 3-12-1. The General Director of Mozambique Agricultural Research Institute, Ministry of Agriculture as the Project Director, will bear overall responsibility for the implementation of the Project.
  - 3-12-2. The Directors of Northeast and Northwest IIAM Zonal Research Centers, as the Project Managers, will be responsible for the managerial and technical matters of the Project and will conduct the Project activities.
  - 3-12-3. The Coordination Unit composed of the representatives of the three parties will be established in order to facilitate the activities of the Project.
  - 3-12-4. For the effective and successful implementation of this triangular cooperation, the important issues regarding the implementation of the Project will always be discussed among three parties, Japan, Brazil and Mozambique. When any other cooperation relating to this Project is planned between Mozambique and Brazil, or Japan and Mozambique, information will always be shared among the three parties.
  - 3-12-5. The Japanese and Brazilian experts will provide necessary technical assistance and advices to Mozambican counterpart personnel on pertaining to the implementation of the Project.



B

#### 4. TENTATIVE SCHEDULE

After going through JICA's internal approval with the result of the Detailed Planning Survey, Record of Discussion (R/D) will be signed in the fourth quarter of 2010. The schedule may be subject to change during the preparation.

#### 5. OTHER RELEVANT ISSUE

This Minutes of Meeting is written in two languages, namely, Portuguese and English. In case of any divergence in interpretation, the English version shall prevail.

Annex 1: Tentative Master Plan

Annex 2: Tentative Project Design Matrix (PDM)

Annex 3: Tentative Plan of Operation (PO)

Annex 4: Draft Record of Discussions (R/D)





B

#### (Tentative) MASTER PLAN

#### 1. Overall Goal

Agriculture production in Nacala Corridor is increased.

## 2. Project Purpose

Appropriate agricultural technology is developed and transferred in Nacala Corridor.

## 3. Outputs of the Project

- 1. Capacity of IIAM research centers in Northeast and Northwest is strengthened.
- 2. Natural resources and socio-economic conditions in Nacala Corridor are evaluated.
- Soil improvement technology for Nacala Corridor is developed.
- 4. Appropriate cultivation technology in Nacala Corridor is developed.
- 5. New agricultural technology developed/validated is implemented in the demonstration units.

## 4. Activities of the Project

- 1-1. To make installation/equipment inventory.
- 1-2. To repair existent installation/equipment.
- 1-3. To procure new research equipment
- 1-4. To construct experimental laboratory in Nampula and in Lichinga
- 1-5. To train research center staff for usage and maintenance of facilities and equipment.
- 1-6. To advise IIAM research centers on management.
- 2-1. To evaluate soil and vegetation.
- 2-2. To collect and analyze meteorological data.
- 2-3. To collect and analyze water resources data.
- 2-4. To collect and analyze landscape data.
- 2-5. To assess the potentiality of crop/livestock production.
- 2-6. To develop a land use plan for agricultural purpose.
- 2-7. To survey socio-economic conditions.
- 3-1. To develop soil improvement technology.
- 3-2. To develop fertilization schemes/recommendation by crops.
- 3-3. To develop soil conservation technology.
- 4-1. To select appropriate crops/varieties.







- 4-2. To develop appropriate seed production systems.
- 4-3. To select appropriate microorganism for leguminous and other crops.
- 4-4. To develop appropriate methods to enhance the access to water resources for agriculture purposes.
  - 4-5. To develop appropriate cropping systems.
  - 5-1. To select pilot farms and to establish demonstration units for crop/livestock.
- 5-2. To organize technology transfer activities (seminars, field days, etc) on the demonstration units for farmers.
  - 5-3. To organize training courses for extension workers.
- 5-4. To develop a Decision Support Model applicable for farmers to select appropriate cropping system.

## 5. Target Area

Nacala Corridor, Northern area of Mozambique

## 6. Terms of Cooperation

Five (5) years (tentatively, from November 2010 to October 2015)



Date: 2010/08/25

Turget Aren: Nuculu Corridoc, Northern Aren in Mazambique

Target Group: The staff of Northeast and Northwest HAM Zonal Researth Centers, and Farmers from pilot units and its surroundings

	Nurrathe Surgary	Objectively Verifiable Indicators	Means of Vertification	Imperiant Assumptions			
Overall Goal	Agriculture production in Nacela Contidor is increased	Productivity of technology transferred farms increase X  -Total production of technology transferred farms increase X	Progress Report of the Project Questionnaire/Esterview	IMPORTANT ATTUMPUSES			
Project Purpose	Appropriate agricultural technology is developed and transferred in Nacala Corridor.	No of futurer practicing developed technology increases X No. of extension workers transffering developed technology increases X	Progress Report of the Project Questionnaire/Interview				
	1. Capacity of IIAM tesearch curiors in Northeast and Northwest is strengthened.	(Rescribe concrete facility or equipment here, ix. Soil Analysis Laboratory in Nampula) is removated . No of auditional analysis samples activities X No of sent for soil-plant analysis increases X Result of evaluation for research contents till about usage and maintenance of equipment and mantaney actives XX is in some goatem defined in the beginning of the project Result of soil evaluation for management staff about managements of the Centers achieves X is scoring system defined in the beginning of the project.	Progress Report of the Project Questionnize Interview				
	2. Natural resources and socio-economic conditions in Nacala Comidor are evaluated.	-Presence of soil and regetation data -Presence of meteorological data -Presence of meteorological data -Presence of instance course data -Presence of insufscipe data spicularial purpose	Progress Report of the Project				
Cuipais	3. Soil improvement technology for Nacala Corridor is developed.	-Presence of recommendation on soil improvement technology -Presence of recommendation on femiliar application by crop and by soil type -Presence of recommendation on soil conservation technology	Progress Report of the Project	*Equipment conditions of the research centers do not get worse. *Large-scale weather disaster or abnormal climate do not occur			
	-Presence of the last of appropriate crops/vanches secommended -Presence of massual for appropriate seed production systems  4. Appropriate cultivation technology for Nicela Corridor is developedPresence of the last of appropriate microorganism tested -Presence of the set of appropriate microorganism tested -Presence of the second propriate microorganism tested -Presence of appropriate cultivation and appropriate econographic system						
	<ol> <li>New agricultural technology developed validated is implemented in the demonstration units.</li> </ol>	Progress Report of the Project Questionnum o Unionies					
Activities	1-1. To make installation/equipment inventory. 1-2. To repair existent installation/equipment. 1-3. To provide new research equipment. 1-4. To construct experimental laboratory in Numpula and Lichinga. 1-5. To train research center staff for usage and maintenance of facilities and equipment. 1-6. To advise IIAM Research Centers on management	Inputs  Ispanese party -Long-term expects -Chief Advisor of Ispanese Team -Laison Officer -Short-term experts as necessary					
	2-1. To evaluate soil and vegetation.  2-2. To collect and analyze meteorological data.  2-3. To collect and analyze meteorological data.  2-3. To collect and analyze meteorological data.  2-4. To collect and unlyze meteorological data.  2-5. To series the method in the method of t						
	3-1. To develop sed improvement technology. 3-2. To develop fartilization schemes/recommendation by crops. 3-3. To develop sed conservation technology.	Disartion party  * Bisartion research and estension experts  * Technical expents for the facts trustages needed (laboratories, pilot projects, seed processing unit, et  * Technical expents for developing a seed production system					
	4-1. To select appropriate crops/valeties. 4-2. To develop appropriate seed production systems. 4-3. To select appropriate ancoorganisms for legamonous and other crops. 4-4. To develop appropriate methods to enhance the access to water resources for agriculture purposes. 4-5. To develop appropriate cropping systems.	- Tectrical expects for inestock production - Teopical agricultural technologies developed in Brazil - Provision of materials for management, monitoring and evaluation assessments - Provision of technical publications and other editions related to tropical agriculture - Provision of Brazilian made machinery for small scale farmers, seedings and seeds - Provision of Brazilian made machinery for small scale farmers, seedings and seeds - Running expenses related to Brazilian expects - Thinning of Machinician personnel in Brazil					
	5-1. To select plot farms and to establish demonstration units for crop-livestock.  5-2. To expusive technology trausfer activities (seminuss, field days, etc) on the demonstration units for farmers.  5-3. To expusive training courses for extension workers.  5-4. To devide a Decision Support Model applicable for farmers to select appropriate excepting system.						





25/8/2010
PLAN OF OPERATION (PQ)
The Project for improving Research and Technology Transfor Capacity for Necala Corridor Agriculture Devolupment, Mozambique

readizon/equpment eventory  readizon/equpment  readizon/equpment  readizon/equpment  readizon/equpment  readizon/equpment  readizon/equpment  readizon/equpment  readizon/equpment  readizon  readiz		
1-2. To repure sustaint enstalithon-lequipment.  1-3. To provide now research equipment.  1-4. To construct experimental blorezony in Nampule and  1-5. To provide now research equipment.  1-7. To construct experimental blorezony in Nampule and  1-7. To cohest and exclusion that is not experiment.  2-7. To cohest and exclusion methodogical data  2-8. To cohest and exclusion methodogical data  2-9. To cohest and exclusion methodogical data  2-9. To cohest and exclusion methodogical data  2-9. To develop a land use pian for agricultural purpose.  2-9. To develop sol improvement sectindogy  3-1. To develop sol improvement sectionology  3-2. To develop sol improvement sectionology  3-3. To develop sol improvement sectionology  4-1. To select appropriate seed production systems.  4-2. To develop soli constance conditions in the loguminous and other sugar.  4-3. To select appropriate method systems.  4-3. To develop appropriate and to stabish demonstration  4-4. To select propriate methods to enhance the methodogy appropriate and to stabish demonstration  4-5. To develop appropriate and to stabish demonstration  4-6. To develop appropriate cropping systems.  5-1. To organize transit course for approage systems.  5-1. To develop a Demonstration of Immers.  5-2. To organize transit course for approage systems.  5-3. To organize transit course for approage systems.  5-3. To organize transit course a for approage system.  5-4. To develop a Demonstration of Immers.  5-5. To organize transit course a for approage system.  5-7. To develop a Demonstration of Immers is select approaged to a transition for thems.  5-8. To organize transit course a for arguming system.		
1-3. To provide new research equipment.  1-4. To contruct experimental laboratory in Nampule and Lehmer and Le		
1-4. To construct experimental blootrapy in Nampule and Litch controlled experimental blootrapy in Nampule and minimatures of Inclines and experiment.  1-6. To brain seasorth ceriter staff for usage and minimatures of Inclines and experiment.  2-1. To evaluate stal and waysterboom.  2-2. To codect and analyze water resources data  2-3. To codect and analyze water resources data  2-4. To develop a band use plan for apricultural purpose.  2-7. To survey socio-economic conditions.  2-8. To develop to land use plan for apricultural purpose.  2-9. To develop to land use plan for apricultural purpose.  2-1. To develop to land use plan for apricultural purpose.  2-1. To develop to land use plan for apricultural purpose.  2-1. To develop to land use plan for apricultural purpose.  2-1. To develop to land use plan for apricultural purpose.  3-1. To develop to land use plan for apricultural purpose.  3-2. To develop proportiate recopulation systems.  3-3. To develop appropriate microorgavian for logaminious and date cupp.  3-4. To select appropriate microorgavian for logaminious and date cupp.  3-5. To develop appropriate select appropriate select appropriate selection systems.  3-6. To develop appropriate select appropriate selection systems.  3-7. To develop appropriate selection systems.  3-8. To develop appropriate selection such for farmers.  3-9. To organize trained governation until for farmers.  3-1. To develop appropriate selection systems.  3-1.		
1-6. To term research center suff for usage and minimum management 1-6. To achies public Research Centers on management 2-1. To achies public Research Centers on management 2-2. To codest and analyze meteorited data 2-3. To codest and analyze meteorited data 2-4. To codest and analyze landscape data 2-5. To codest and analyze landscape data 2-6. To develop to band use plan for agricultural purpose. 2-7. To survey sociol-economic conditions. 2-7. To develop to band use plan for agricultural purpose. 2-7. To develop to band use plan for agricultural purpose. 2-7. To develop to band use plan for agricultural purpose. 2-7. To develop to band use plan for agricultural purpose. 2-7. To develop to band use plan for agricultural purpose. 2-7. To develop to band use plan for agricultural purpose. 2-7. To develop to band use plan for agricultural purpose. 2-7. To develop to band use plan for agricultura purposes. 2-7. To develop appropriate seed production systems. 2-8. To develop appropriate response to depicultura purposes. 2-8. To develop appropriate cropping systems. 2-9. To organize strange definition where the access to water resources for agricultura purposes. 2-9. To organize trange appropriate cropping systems. 2-9. To organize trange topopriate seed production where the access to water resources for agricultura purpose. 2-9. To organize trange topopriate seed production with for farmers. 2-9. To organize trange topopriate seed to for agricultural purpose. 2-9. To organize trange topopriate seed to for agricultural purposes. 2-9. To organize trange topopriate seed to for agricultural purpose. 2-9. To organize trange topopriate seed top		
1-6. To evaluate sold und vegetation  2-2. To codest and enables meteorological deta  2-3. To codest and analyze meteorological deta  2-4. To codest and analyze meteorological deta  2-5. To essess the potentiatry of cropkvescck production  2-6. To develop a tend use plan for agricultural purpose.  2-7. To survey social economic conditions.  2-7. To develop a tend use plan for agricultural purpose.  2-7. To develop to tend use plan for agricultural purpose.  2-7. To develop to tend use plan for agricultural purpose.  2-7. To develop fortization schemes/accommendation by crops.  3-7. To develop fortization schemes/accommendation by crops.  3-8. To develop soil improvement technology  4-1. To develop proprieta microorigative for leguminant and other cupps appropriate are opping systems.  4-3. To develop appropriate are plan for attain until for farmers.  5-1. To general transfer sources for autonomy workers  5-1. To general transfer sources for autonomy workers  5-2. To originary action of pupping systems.  5-3. To originary or tendence of Lopping systems.  5-4. To develop and purpopriate original systems.  5-5. To originary or tendence of Lopping systems.  5-6. To develop and purpopriate original systems.  5-7. To develop and purpopriate original systems.  5-7. To develop and purpopriate original systems.  5-8. To develop and purpopriate original systems.  5-9. To develop and purpopriate original systems.  5-1. To develop and purpopriate original systems.		
2.1 To evanuate sed and vegetabon  2.2 To cobest and exultee meteorotogical defa  2.3 To cobest and exultee meteorotogical defa  2.4 To cobest and analyze water resources data  2.5 To assess the potentiality of croplivestact production.  2.6 To develop a land use pian for egricultural purpose  2.7 To survey socio-economic conditions.  2.7 To develop soil improvement betinology  2.7 To develop soil improvement betinology  2.8 To develop soil constancement actinology  3.1 To develop soil constancement actinology  4.1 To select appropriate crops/warsefor.  4.2 To develop soil constancement inclinituates  4.3 To develop soil constancement inclinituates  4.4 To select appropriate methods to enhance the  4.5 To develop appropriate and to astabish demonstration  4.6 To develop appropriate and to astabish demonstration  4.7 To develop appropriate cropping systems.  5.1 To develop appropriate stropping systems.  5.2 To develop appropriate stropping systems.  5.3 To develop appropriate stropping systems.  5.4 To develop appropriate stropping systems.  5.5 To develop appropriate stropping systems.  5.6 To develop appropriate stropping systems.  5.7 To develop appropriate stropping systems.  5.8 To develop appropriate stropping systems.  5.9 To develop appropriate stropping systems.  5.1 To develop appropriate stropping systems.  5.1 To develop appropriate stropping systems.  5.2 To develop appropriate stropping systems.  5.3 To develop appropriate stropping systems.  5.4 To develop appropriate stropping systems.		
2.3. To cobest and enables meteorological data 2.4. To cobest and orus/see water resources data 2.5. To cobest and orus/see water resources data 2.6. To covere and analyzee water resources data 2.7. To survey socie-occurance conditions. 2.8. To develop to lamid use plan for agricultural purpose. 2.9. To develop to lamid use plan for agricultural purpose. 2.9. To develop sold improvement technology 2.9. To develop sold improvement technology 2.9. To develop sold improvement technology 2.9. To develop sold consorvation technology 3.9. To develop sold consorvation technology 4.1 To select appropriate resources the agricultural purposes. 4.2 To develop appropriate microgrammic for logurinous and data crops. 4.3 To select appropriate microgrammic for logurinous and data crops. 4.4 To develop appropriate microgrammic and to select the crops a statems. 4.5 To develop appropriate and to setableh demonstration 4.6 To develop appropriate and to setableh demonstration 4.7 To organize thermology transfer activities (communes. 4.6 To develop appropriate cropping systems. 4.7 To develop appropriate cropping systems. 4.8 To organize transfer taperopriate scropping systems. 4.9 To develop appropriate selection systems. 4.9 To develop appropriate selection systems. 4.9 To develop appropriate selection systems. 4.9 To develop appropriate cropping systems. 4.9 To develop appropriate selection Support Model explacable for farmers: 4.9 To develop appropriate selection for systems. 4.9 To develop appropriate selection Support Model explacable for farmers. 4.9 To develop appropriate selection Support Model explacable for farmers. 4.9 To develop appropriate selection Support Model explacable for farmers. 4.9 To develop appropriate selection Support Model explacable for farmers. 4.9 To develop appropriate selection Support Model explacable for farmers.		
2-4. To colect and analyze water resources data 2-5. To colect and analyze water resources data 2-5. To colect and analyze landscape data. 2-6. To develop to land use plan for agricultural purpose. 2-7. To survey socio-economic conditions. 3-1. To develop soil improvement bacthrology 3-2. To develop soil enanverson technology 3-3. To develop soil cansarverson technology 3-3. To develop soil cansarverson technology 4-1. To select appropriate seed production systems. 4-2. To develop appropriate seed production systems. 4-3. To select appropriate microorgavian for loguminous and dates copy. 4-1. To select appropriate microorgavian for loguminous and dates copy. 4-2. To develop appropriate methods to admite the access to water resources for agriculture purposes. 4-3. To select appropriate seed to agriculture purposes. 4-4. To develop appropriate methods to admite the access to water seriources for agriculture purposes. 4-5. To develop appropriate soft agriculture purposes. 4-6. To develop appropriate seed of agriculture purposes. 4-7. To develop appropriate organization waters. 4-8. To develop appropriate seriources for agricultures. 4-9. To organize transfer curses for astablish demonstration. 4-9. To develop appropriate seriources for agricultures. 4-1. To develop appropriate seriources for agricultures. 4-1. To develop appropriate seriources for agricultures. 4-1. To develop appropriate seriources for agricultures. 4-2. To organize transgroundes (commerces) 4-3. To develop appropriate seriources for agricultures. 4-4. To develop appropriate seriources for agricultures. 4-5. To organize transgroundes (commerces) 4-6. To develop appropriate seriources for agricultures. 4-7. To develop appropriate seriources for agricultures.		
2-4 To colect and analyze landscape data. 2-5 To assess the potentiality of cropkvestock production. 2-8 To develop a tend use plan for egitudianal purpose. 2-7 To survey socio-economic conditions. 3-1 To develop a tend use plan for egitudianal purpose. 3-1 To develop tool improvement sectimology. 3-2 To develop tool conservation technology. 3-3 To develop tool conservation technology. 3-3 To develop appropriate crops/variation. 3-4-1 To select appropriate and production systems. 3-5 To develop appropriate microorgavism for loguminous and dather tools. 3-1 To select appropriate methods to enhance the second to develop appropriate responses to the second to waster resources for agriculture purposes. 3-1 To develop appropriate responses to the select tool for the select tool for the select tool forms and to astacksh demonstration. 3-1 To develop appropriate cropping systems. 3-1 To organize training courses for agriculture purposes. 3-1 To organize training courses for admittent workers. 3-1 To develop appropriate cropping systems.		
2.8. To develop a land use plan for agricultural purpose. 2.9. To develop a land use plan for agricultural purpose. 2.9. To develop a land use plan for agricultural purpose. 3.1. To develop soli environment backmondon by crops. 3.2. To develop soli constancem technology. 3.3. To develop soli constancem technology. 4.1. To asked uppropriate respondante or parameters. 4.2. To develop appropriate seed production systems. 4.3. To asked uppropriate methods to enhance the case of the constance of the case of the constance of the case		
2.7. To develop a tend use pian for egricultural purpose.  2.7. To develop sol improvement technology.  3. To develop sol improvement technology.  4.1 To develop sol constance conditions.  4.2 To develop sol constance repulsanteden.  4.3 To develop sol constance repulsanteden.  4.3 To develop sol constance repulsanteden.  4.4 To select appropriate recognistic seed production systems.  4.5 To develop appropriate methods to enhance the and other cogn.  4.6 To develop appropriate methods to enhance the secess to water resource for agricultura purposes.  4.6 To develop appropriate enopping systems.  5.1 To select populations are activates (sommers.  5.1 To develop appropriate sold to establish demonstration.  5.1 To organize transfer sections by systems.  5.2 To organize transfer activates to reapping systems.  5.3 To organize transfer appropriate scripping systems.  5.4 To organize transfer appropriate systems.  5.5 To organize transfer appropriate systems.  5.6 To organize transfer appropriate systems.  5.7 To organize transfer appropriate systems.  5.8 To organize transfer appropriate systems.  5.9 To organize transfer appropriate systems.		
2-7 To survey socio-economo conditions.  3-1 To develop tod improvement bathrology  3-2 To develop Indiazono schemes/becommendacon by  4-1 To select appropriate crops/varieties.  4-2 To develop suci conservation technology  4-3 To select appropriate microrgarem for logarimitous and dather citigs.  4-4 To select appropriate microrgarem for logarimitous and dather citigs.  4-4 To develop appropriate methods to enhance the access to water resource of the appropriate and dather citigs.  4-5 To develop appropriate and to astabish demonstration  5-1 To organize thermology transfer activities (comment.  5-2 To organize transfer such as demonstration until for farmers.  5-3 To organize transfer appropriate such as a stabish demonstration  5-4 To develop appropriate organized systems.  5-5 To organize transfer appropriate such desirems workers  5-6 To organize transfer appropriate such appeatable for finances to select appropriate such appearable for finances to select appearable for for appropriate such appearable for for developed appearable for for for for the for formatices for an appearable for for formatices for formatices for formatices for appearable for formatices for form		
3-1 To develop tool improvement sectivology 1-2 To develop braitzeon schemes/accommendation by crips 3-3 To develop braitzeon schemes/accommendation by crips 4-1 To select appropriate enclosivements 4-2 To develop appropriate microngavism for loguminous and other cops. 4-3 To select appropriate microngavism for loguminous and other cops. 4-4 To develop appropriate methods to enhance the access to water resources for appricants 4-4 To develop appropriate responses 4-5 To develop appropriate responses 4-5 To develop appropriate responses 4-5 To develop appropriate cropping systems 5-1 To experience their farms and to astabath demonstration 4-4 To respect their farms and to astabath demonstration 4-5 To organize training courses for experience for themses 5-1 To organize training courses to element workers 5-1 To develop appropriate cropping system 5-1 To develop and the propriate training to a Desiron appropriate a Desiron app		
1.2. To develop fortilization schemeu/becommendation by crops.  1.3. To develop soil constantion technology  1.1. To select appropriate proplemental statements.  1.2. To develop appropriate seed production systems.  1.3. To develop appropriate metroorgarism for legaminous and further crops.  1.4. To develop appropriate metroorgarism for legaminous and further crops.  1.4. To develop appropriate methods to enhance the secrets to water resources for agriculture purposes.  1. To develop appropriate properties recoping systems.  1. To select piol fessor.  1. To select piol fessor.  1. To conguruse technology transfer activities (sommers.  1. To organize transg cases for elemental morkers.  1. To develop a Devision Support Model applicable for fermers to select topoprists cropping system.		33 33
10 select appropriate crops/varietion.  4-1 To select appropriate crops/varietion.  4-2 To develop appropriate seed production systems.  4-3 To select appropriate methods to enhance the access to water crops.  4-4 To develop appropriate methods to enhance the access to water secure of or gentlands.  4-6 To develop appropriate cropping systems.  5-1 To develop appropriate cropping systems.  5-1 To organze technology transfer activities (somures.  5-3 To organze technology transfer activities (somures.  5-4 To develop a Dericano Support Model appicable to farmers to select topologiste cropping system.  5-4 To develop a Dericano Support Model appicable to farmers to select topologiste cropping system.		522
4-1 To select appropriate cropulvanetor. 4-2 To develop appropriate seed production systems 4-3 To select appropriate microngaren for loguminous 4-3 To select appropriate microngaren for loguminous 4-4 To develop appropriate methods to enhance the 4-5 To develop appropriate response a to the select plot forms and to assabish demonstration 5-1 To select plot forms and to assabish demonstration 5-1 To organize formology transfer activities (commune. 5-2 To organize formology transfer activities (commune. 5-3 To organize formology transfer activities (commune. 5-3 To organize formology transfer activities where the formology formology systems 5-4 To develop a Decision Support Model applicable for formology for the formology formology systems		
4-2 To develop appropriate seed production systems. 4-3 To select appropriate microorpavism for loguminos. 4-4 To develop appropriate microorpavism for loguminos. 4-4 To develop appropriate resources for agriculture purposes. 4-5 To develop appropriate resources for agriculture purposes. 4-5 To develop appropriate resources for agriculture purposes. 5-1 To develop appropriate resources for agriculture purposes. 5-1 To organize their families activities (comment. 5-2 To organize tecnology) transfer activities (comment. 5-3 To organize transg courses for admitten workers. 5-3 To organize transg courses for admitten workers. 5-4 To develop a Decision Suppost Model applicable for farmers to select appropriate cropping system.		
4-3 To select appropriate microorgavien for legaminous 4-4 To develop appropriate methods to enhance the access to water resource if or agriculture perpesses. 4-5. To develop appropriate cropping systems. 5-1. To select pilot farms and to establish demonstration 5-1. To select pilot farms and to establish demonstration 5-1. To organize technology transfer activities (sommers. 5-2. To organize transfer activities (sommers. 5-3. To organize transfer activities (sommers. 5-4. To develop a Decision Support Model applicable for farmers to select appropriate or reapping system.	Section   Sect	
4-4. To develop appropriate memorals to enhance the access to water resources for agriculture purposes.  4-5. To develop appropriate cropping systems.  5-1. To develop appropriate cropping systems.  5-1. To estem prime and to establish demonstration.  5-2. To organize technology transfer activities (sommers.  5-3. To organize technology transfer activities (sommers.  5-3. To organize technology transfer activities workers.  5-4. To develop a Dacision Support Model appicable for femmer to select appropriate cropping system.		
4.5. To develop appropriate cropping systems.  5.1. To select pilot ferms and to establish demonstration was for croplivescolk.  5.2. To oppure bethindoy transfer scholes (sommers. Edd days, act) on the demonstration until for farmers.  5.3. To organize training courses for extension workers.  5.4. To develop a Decision Support Model applicable for farmers to select appropriate cropping system.  Farmers to select appropriate cropping system.		
1. To sever plus farms and to setablish demonstration   1. To sever plus demonstration   1. To sever plus demonstration   1. To organize technology transfer activities (sommers.   1. To organize training conservation until for farmers.   1. To organize training conservation until for farmers.   1. To develop a Destraining Support Model applicable for   1. To develop a Destraining Support   1. To organize the several paper plus between   1. To develop a Destraining Support   1. To organize the several plus person   1. To o		
5-2. To organzo technology trensfer activities (sommers. 5-3. To organzo transge construction with for fermers. 5-3. To organzo transge courses for elements workers 5-4. To develop a Derison Support Model applicable for fermers to select topologiste cropping system.		
5-3. To organize training courses for externation workers 5-4. To develop a Docision Support Model applicable for farmers to select appropriate cropping system.		
5-4. To develop a Decision Support Model applicable for farmer to select appropriate cropping system  ******** Chief Advisor of Japanese Team  ***********************************		
(Chief Advisor of lapanese Team		
	医绿斑形状 医克里氏试验检尿素 医甲基甲基甲基甲基甲基甲基甲基甲基甲基甲甲基甲甲基甲甲甲甲甲甲甲甲甲甲甲甲甲	· · · · · · · · · · · · · · · · · · ·
Contraction of the contraction o		
Dispatch of Brazilian िम्ह		
experts B		
Light Continues		
nackerm review & terminal eveluation)		
Joint montaining ACTIVITIES 2010 2011		





Annex 4

# RECORD OF DISCUSSIONS BETWEEN

JAPAN INTERNATIONAL COOPERATION AGENCY

AND

AUTHORITIES CONCERNED OF THE GOVERNMENT OF REPUBLIC OF MOZAMBIQUE

ON

TRIANGULAR COOPERATION

FOR THE PROJECT FOR IMPROVING RESEARCH

AND TECHNOLOGY TRANSFER CAPACITY

FOR NACALA CORRIDOR AGRICULTURE DEVELOPMENT, MOZAMBIQUE

The Chief Representative of the Japan International Cooperation Agency (hereinafter referred to as "JICA") in the Republic of Mozambique had a series of discussions with the Mozambican authorities concerned on desirable measures to be taken by JICA and the Government of Republic of Mozambique for the successful implementation of the Project for Improving Research and Technology Transfer Capacity for Nacala Corridor Agriculture Development, Mozambique.

As a result of the discussions, and in accordance with provisions of the Agreement on Technical Cooperation between the Government of Japan and the Government of Republic of Mozambique, signed in Maputo, Mozambique on March 30, 2005 (hereinafter referred to as the Agreement) and under the framework of Japan Brazil Partnership Programme (hereinafter referred as "JBPP"), the Chief Representative of JICA and the representative of Mozambican authorities agreed to recommend to their respective Governments the matters referred to in the document attached hereto.

Maputo ++ ++, 2010

Mr. Masami SHUKUNOBE
Chief Representative
Mozambique Office
Japan International Cooperation Agency

Dr. Calisto António Laurinda Francisco Bias General Director Mozambique Agricultural Research Institut Ministry of Agriculture Republic of Mozambique



## (DRAFT) THE ATTACHED DOCUMENT

#### I. COOPERATION BETWEEN JICA AND MOZAMBIQUE GOVERNMENT

- The Government of Republic of Mozambique (hereinafter referred to as "the Government of Mozambique") will implement the Project for Improving Research and Technology Transfer Capacity for Nacala Corridor Agriculture Development, Mozambique (hereinafter referred to as "the Project") in cooperation with JICA.
- 2. The Project will be implemented in accordance with the Master Plan which is given in Annex I.

#### II. MEASURES TO BE TAKEN BY JICA

In accordance with the laws and regulations in force in Japan, JICA, as the executing agency for technical cooperation by the Government of Japan, will take, at its own expense, the following measures according to the normal procedures under the Technical Cooperation Scheme of Japan.

#### 1. DISPATCH OF JAPANESE EXPERTS

JICA will provide the services of the Japanese experts as listed in Annex II.

## 2. PROVISION OF MACHINERY AND EQUIPMENT

The Government of Japan will provide such machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project as listed in Annex III. The Equipment will become the property of the Government of Mozambique upon being delivered C.I.F. (cost, insurance and freight) to the Mozambican authorities concerned at the ports and/or airports of disembarkation.

## 3. TRAINING OF MOZAMBICAN PERSONNEL IN JAPAN, BRAZIL AND/OR OTHER COUNTRIES

JICA will receive the Mozambican personnel connected with the Project for technical training in Japan, Brazil and/or Other Countries on JBPP cost share basis.

## III. MEASURES TO BE TAKEN BY THE GOVERNMENT OF MOZAMBIQUE

 The Government of Mozambique will take necessary measures to ensure that the self-reliant operation of the Project will be sustained during and after the period of Japanese technical cooperation, through full and active involvement in the Project by all related authorities, beneficiary groups and institutions.



- 2. The Government of Mozambique will ensure that the technologies and knowledge acquired by the Mozambican nationals as a result of Japanese technical cooperation will contribute to food security and poverty reduction and commercial agriculture in Mozambique.
- 3. The Government of Mozambique will grant in Mozambique, privileges, exemptions and benefits as listed in Annex IV and will grant privileges, exemptions and benefits no less favorable than those granted to experts of third countries or international organizations performing similar missions to the Japanese experts referred to in II above and their families.
- 4. The Government of Mozambique will ensure that the Equipment referred to in III above will be utilized effectively for the implementation of the Project in consultation with the Japanese experts referred to in Annex II.
- 5. The Government of Mozambique will take necessary measures to ensure that the knowledge and experience acquired by the Mozambican personnel from technical training in Japan, Brazil and/or other countries will be utilized effectively in the implementation of the Project.
- 6. In accordance with the laws and regulations in force in Mozambique, the Government of Mozambique will take necessary measures to provide at its own expense:
  - (1) Services of the Mozambican counterpart personnel and administrative personnel as listed in Annex V;
  - (2) Land, buildings and facilities as listed in Annex VI;
  - (3) Supply or replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than the Equipment provided through JICA under III above;
  - (4) Obtain means of transport for official travel within Mozambique.
  - (5) Expenses necessary for transportation within Mozambique of the Equipment referred to in III above as well as for the installation, operation and maintenance thereof;
  - (6) Customs duties, internal taxes and any other charges, imposed in Mozambique on the Equipment and Materials referred to in III above; and
  - (7) Running expenses necessary for the implementation of the Project.



#### IV. ADMINISTRATION OF THE PROJECT

- 1. The General Director of Mozambique Agricultural Research Institute, Ministry of Agriculture, as the Project Director, will bear overall responsibility for the administration and implementation of the Project.
- 2. The Director of Northeast IIAM Zonal Research Center and Northwest IIAM Zonal Research Center, as the Project Manager, will be responsible for the managerial and technical matters of the Project and conduct the Project activities.
- Chief Advisor of Japanese Team will provide necessary recommendations and advice to the Project Director and the Project Manager on any matters pertaining to the implementation of the Project.
- 4. The Japanese experts will give necessary technical guidance and advice to the Mozambican counterpart personnel on technical matters pertaining to the implementation of the Project.
- 5. For the effective and successful implementation of technical cooperation for the Project, a Joint Coordinating Committee will be established whose functions and composition are described in Annex VII.

#### V. JOINT EVALUATION

Evaluation of the Project will be conducted jointly by JICA, the Brazilian authorities and the Mozambican authorities concerned, at the middle and during the last six months of the cooperation term in order to examine the level of achievement.

#### VI. CLAIMS AGAINST JAPANESE EXPERTS

The Government of Mozambique undertakes to bear claims, if any arises, against the Japanese experts engaged in technical cooperation for the Project resulting from, occurring in the course of, or otherwise connected with the discharge of their official functions in Mozambique except for those arising from the willful misconduct or gross negligence of the Japanese.

## VII. MUTUAL CONSULTATION

There will be mutual consultation between JICA, Brazil and Mozambique Government on any major issues arising from, or in connection with this Attached Document.



# VIII. MEASURES TO PROMOTE UNDERSTANDING OF AND SUPPORT FOR THE PROJECT

For the purpose of promoting support for the Project among the people of Mozambique, the Government of Mozambique will take appropriate measures to make the Project widely known to the people of Mozambique.

## IX. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this Attached Document will be five (5) years from the date of the first dispatch of expert of JICA.

#### LIST OF ANNEX

ANNEX I MASTER PLAN

ANNEX II LIST OF JAPANESE AND BRAZILIAN EXPERTS

ANNEX III LIST OF MACHINERY AND EQUIPMENT

ANNEX IV PRIVILEGES, EXEMPTIONS AND BENEFITS FOR JAPANESE AND

**BRAZILIAN EXPERTS** 

ANNEX V LIST OF MOZAMBIQUE COUNTERPART AND ADMINISTRATIVE

**PERSONNEL** 

ANNEX VI LIST OF LAND, BUILDINGS AND FACILITIES

ANNEX VII JOINT COORDINATING COMMITTEE

#### ANNEX I MASTER PLAN

#### 1. Overall Goal

Agriculture production in Nacala Corridor is increased..

## 2. Project Purpose

Appropriate agricultural technology is developed and transferred in Nacala Corridor.

## 3. Outputs of the Project

- 1. Capacity of IIAM research centers in Northeast and Northwest is strengthened.
- 2. Natural resources and socio-economic conditions in Nacala Corridor are evaluated.
- 3. Soil improvement technology for Nacala Corridor is developed.
- 4. Appropriate cultivation technology for Nacala Corridor is developed.
- 5. New agricultural technology developed/validated is implemented in the demonstration units.

## 4. Activities of the Project

- 1-1. To make installation/equipment inventory.
- 1-2. To repair existent installation/equipment.
- 1-3. To procure new research equipment
- 1.4.To construct experimental laboratory in Nampula and in Lichinga
- 1-5. To train research center staff for usage and maintenance of facilities and equipment.
- 1-6. To advise IIAM research centers on management.
- 2-1. To evaluate soil and vegetation.
- 2.2. To collect and analyze meteorological data.
- 2-3. To collect and analyze water resources data.
- 2.4. To collect and analyze landscape data.
- 2-5. To assess the potentiality of crop/livestock production.
- 2.6. To develop a land use plan for agricultural purpose.
- 2.7. To survey socio-economic conditions.
- 3.1. To develop soil improvement technology.
- 3-2. To develop fertilization schemes/recommendation by crops.
- 3.3. To develop soil conservation technology.
- 4-1. To select appropriate crops/varieties.

- 4.2. To develop appropriate seed production systems.
- 4-3. To select appropriate microorganism for leguminous and other crops.
- 4-4. To develop appropriate methods to enhance the access to water resources for agriculture purposes.
  - 4-5. To develop appropriate cropping systems.
  - 5.1. To select pilot farms and to establish demonstration units for crop/livestock.
- 5-2. To organize technology transfer activities (seminars, field days, etc) on the demonstration units for farmers.
  - 5-3. To organize training courses for extension workers.
- 5.4. To develop a Decision Support Model applicable for farmers to select appropriate cropping system.

## 5. Target Area

Nacala Corridor, Northern area of Mozambique

## 6. Terms of Cooperation

Five (5) years (tentatively, from November 2010 to October 2015)

## ANNEX II LIST OF JAPANESE EXPERTS

- Chief Advisor of Japanese Team
- Liaison Officer

Other experts will be dispatched when the necessity arises.

Note: The assignment schedule of the experts will be fixed depending on the progress of the Project and availability of the suitable experts. The number and terms of reference of experts will be decided in consideration of the progress of the Project through mutual consultation.

## ANNEX III

## LIST OF MACHINERY, EQUIPMENT AND MATERIALS

- 1. Vehicle
- 2. Construction of experimental laboratory
- 3. Laboratory equipment
- 4. Reagent
- 5. Office equipment

# ANNEX IV PREVILEGES, EXEMPTIONS AND BENEFITS FOR JAPANESE EXPERTS AND THEIR FAMILIES

- 1. Exemption from income tax and other charges of any kind imposed on or in connection with the living allowances remitted from abroad.
- 2. Exemption from import tax, export duties and any other charges in respect of personal and household effects of the Japanese experts and their families, including one motor vehicle per expert and per family.
- 3. The Government of Mozambique will use all of its available means to provide medical and other necessary assistance to the Japanese experts and their families, equivalent to that of Mozambican civil servants.
- 4. To issue, upon application, entry and exit visas for the Japanese experts and their families free of charge.
- 5. To issue an identification card to the Japanese experts and their families to secure the cooperation of all governmental organizations necessary for the performance of the duties of the experts.
- 6. Exemption from customs duties for import and export of professional equipment by the Japanese experts in connection with the activities of the Project.

#### ANNEX V

## LIST OF MOZAMBICAN COUNTERPART AND ADMINISTRATIVE PERSONNEL

1. Project Director:

The General Director of Mozambique Agricultural Research Institute, Ministry of Agriculture

2. Project Manager:

The Directors of Northeast and Northwest IIAM Zonal Research Centers

- 3. Counterpart Personnel:
- (1) Personnel(s), Northeast IIAM Zonal Research Center
- (2) Personnel (s), Northwest IIAM Zonal Research Center

Note: Suitably qualified personnel will be assigned continuously to work with Japanese experts as specified in ANNEX II.

4. Other personnel mutually agreed upon as necessary

## ANNEX VI

## LIST OF LAND, BUILDINGS AND FACILITIES

- 1. Land, buildings and facilities necessary for implementation of the project
- 2. Rooms and space necessary for installation and storage of equipment
- 3. Office space and necessary facilities for the Japanese and Brazilian experts and related staff members
- 4. Other facilities mutually agreed upon as necessary

#### ANNEX VII

#### JOINT COORDINATING COMMITTEE

#### 1. JOINT COORDINATING COMMITTEE

The Joint Coordinating Committee will meet once a year and whenever the necessity arises.

- (1) Functions
  - 1) To formulate the Annual Work Plan of the Project
  - 2) To review the overall progress and annual expenditure of the Project.
  - 3) To review and exchange views on major issues arising from or in connection with the Project.
- (2) Chairperson: General Director of Mozambique Agricultural Research Institute (IIAM)
- (3) Members
  - 1) Mozambican side:

Ministry of Agriculture

- (a) Advisor, Cabinet of Minister of Agriculture
- (b) Head of Department of International Cooperation
- (c) Director of National Directorate of Agricultural Extension
- (d) Director of Center for Promotion of Agriculture (CEPAGRI)

#### IIAM

- (e) Director of IIAM Northeast zonal centre
- (f) Director of IIAM Northwest zonal centre

#### Provincial government

- (g) Provincial Director of Agriculture, Nampula
- (h) Provincial Director of Agriculture, Niassa
- (i) Provincial Director of Agriculture, Zambezia
- 2) Japanese side:
- (a) Japanese experts
- (b) Chief Representative of the JICA Mozambique Office
- (c) Representative of JIRCAS in Mozambique
- (d) Personnel concerned to be dispatched by JICA
- 2) Brazilian side:
- (a) Brazilian experts
- (b) Chief Representative of the ABC Mozambique Office
- (e) Chief Representative of the EMBRAPA Mozambique Office
- (f) Personnel concerned to be dispatched by JICA

#### Notes:

(1) Officials of the Embassy of Japan and Brazil may attend the Joint Coordinating Committee meetings as observers.

(2) Persons who	are i	invited	by th	e (	Chairperson	may	attend	the	Joint	Coordinating	Committee
meeting.											
-											: