Democratic Republic of Timor-Leste
National Directorate of Forest Management (NDF)
Ministry of Agriculture and Fisheries (MAF)
Government of the Democratic Republic of Timor-Leste

# The Project for Community-Based Sustainable Natural Resource Management in the Democratic Republic of Timor-Leste

## **Project Completion Report**

January 2016

**Japan International Cooperation Agency (JICA)** 

NIPPON KOEI CO., LTD.

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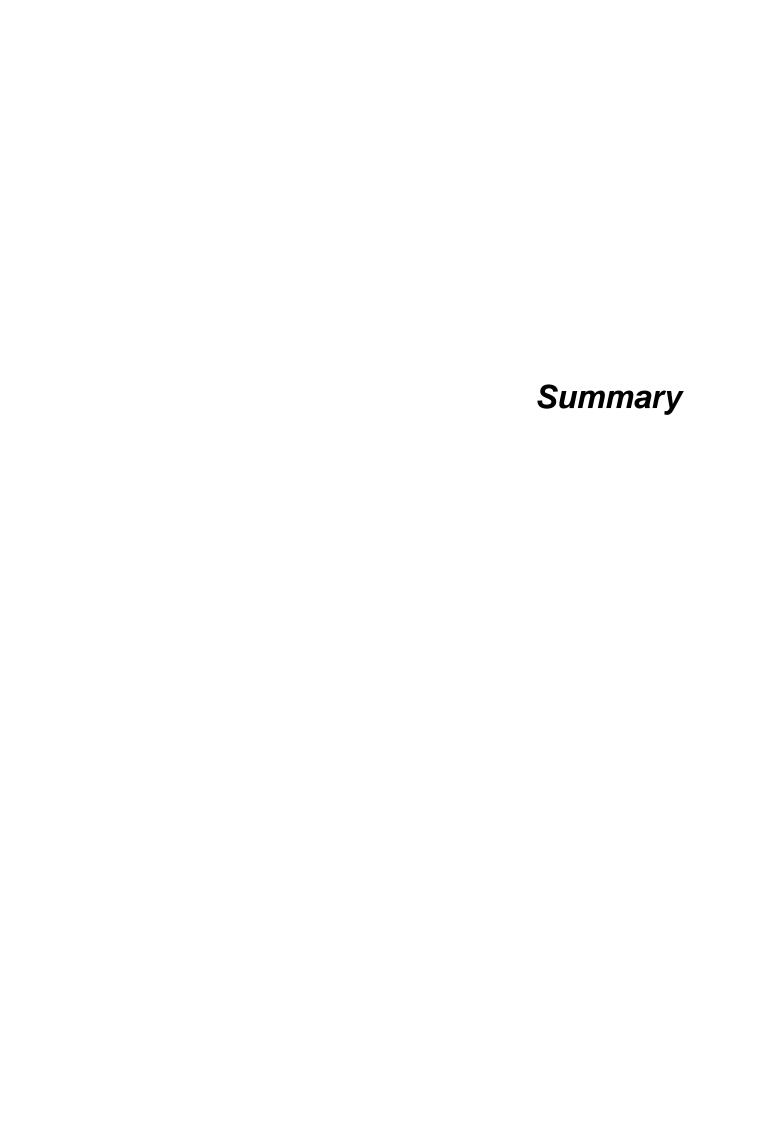
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### **Summary**

### **Chapter 1** Introduction

### 1.1 Background

Between 1972 and 1999, the Democratic Republic of Timor-Leste (Timor-Leste) had reduced its forest cover at a rate of 1.1 % per annum or by 24 % in total. In 2008, the Government of Timor-Leste (GoTL) issued the Forest Sector Policy to promote sustainable forest management in the country. Although the policy was in place, it is still difficult for the Ministry of Agriculture and Fisheries (MAF), particularly the National Directorate of Forestry (NDF), to take the necessary actions proposed in the policy due to the insufficient institutional set-ups and lack of human resources.

Under such circumstances, the GoTL and the Japan International Cooperation Agency (JICA) agreed to jointly implement a technical cooperation project named "The Project for Community-Based Sustainable Natural Resource Management" to assist MAF/NDF in the establishment of an operational mechanism for community-based sustainable natural resource management (CB-NRM) in 2010. JICA and MAF have implemented the Project from January 2011 to December 2015. This is the Project Completion Report describing all the activities done and results made by the Project during the project period.

### 1.2 Outline of the Project

### (1) Objectives of the Project

The project purpose (or the main objective of the Project) agreed upon by MAF and JICA is that "an operational mechanism" of CB-NRM at suco level is developed." The project purpose is to be supported by three (3) outputs:

- Output 1: Land use plans are agreed upon and implemented by local residents in accordance with relevant suco regulations;
- Output 2: Capacities of the staff of the implementing agency and relevant stakeholders<sup>2</sup> are enhanced to support CB-NRM; and
- Output 3: Effective processes with roles of stakeholders to support CB-NRM are identified.

### (2) Targets of the Project

Overall, the Project targets the Laclo and Comoro river basins; however each project output focuses its activities on the different targets as shown below.

- a. The activities for Output 1 have been carried out in six (6) sucos in the Noru and Bemos sub-watersheds in the Laclo and Comoro river basins, respectively.
- b. The capacity development activities for Output 2 are to be carried out for the staff of MAF, especially those assigned as the counterparts for the Project.
- c. The policy recommendations to be drafted under Output 3 are to be basically applicable to the Laclo and Comoro river basins, although it might be useful for other areas in the country when feasible.

<sup>&</sup>lt;sup>1</sup> Operational mechanism is embodied in the endorsed and practiced guidelines/manuals on the process with riles of stakeholders to support CB-NRM, technical manuals on CB-NRM, and the policy recommendations.

<sup>&</sup>lt;sup>2</sup> Personnel of relevant national directorates of Ministry of Agriculture and Fisheries (MAF), district directorates of MAF in the target area and other facilitating agencies, such as NGOs working in the target area.

### (3) Project Period

The Project has been implemented over 60 months from January 2011 to December 2015.

### (4) Institutional Framework for Implementation of the Project

The Project has been implemented jointly by JICA and MAF. From MAF side, the National Directorate of Forestry (NDF), which split into the National Directorate of Forest and Watershed Management (NDFWM) and the National Directorate of Nature Conservation<sup>3</sup> in 2014, was responsible for implementation of the Project among the national directorates of MAF. On the other hand, the JICA Project Team entrusted by JICA has borne the responsibility to carry out the project activities.

### Chapter 2 Overview of the Project

### 2.1 Overall Work Plan

The Project has been implemented in accordance with the plan of operations (PO) of the Project agreed upon and approved by the Joint Coordination Committee (JCC) organized by JICA and MAF.

### 2.2 Changes in the Project Design

There have been some changes in the project design to cope with changes in the situations and ensure the achievement of the project purpose over the course of the Project. The first major revision was made in March 2012 when the Project had the mid-term evaluation. It was further revised in May/June 2014 when JICA and MAF decided to establish a watershed management council of the Noru watershed.

### 2.3 Progress of the Works

The JICA and MAF Project Teams have monitored the progress of the Project over the course of the Project by using the latest PO. In general, the Project has been implemented according to the schedule.

### Chapter 3 Results of the Activities under Output 1

### 3.1 Village Profiling

In January 2011, the JICA and MAF Project Teams selected the following six (6) sucos as the target villages by evaluating the potential sucos located in the Noru and Bemos sub-watersheds.

Noru Sub-watershed: Suco Faturasa, Suco Fadabloco, and Suco Hautoho Sub-watershed: Suco Tohumeta, Suco Madabeno, Suco Talitu

In February 2011, the JICA and MAF Project Teams jointly held the consultation meetings at the target sucos to consult with local communities in the sucos about their willingness to participate in the Project. In general, local communities in the target sucos accepted the ideas of the Project and showed their willingness to participate in the project activities.

### 3.1.3 Village Profiling Survey (Baseline Survey and PRA) in the Target Sucos

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<sup>&</sup>lt;sup>3</sup> NDF was divided into two (2) national directorates, namely National Directorate of Forest and Watershed Management and National Directorate of Nature Conservation, in October 2014, when the Ministry of Agriculture and Fisheries was restructured

A village profile survey was carried out by two NGOs, USC Canada-Timor Leste, which was renamed RAEBIA in 2014, and Halarae Foundation, in 2011. The village profile survey was composed of two (2) parts, the baseline survey aimed at the collection of socio-economic baseline data of the target sucos and PRA which focused on the collection of data and information of natural resource management and potential of income generation in the sucos. The characteristics of the target sucos based on the results of the survey are summarized below.

**Summary of Characteristics of the Target Sucos** 

1.1 No. of Sub-villages (Aldeia)		illilliary of Cita					
1.1 No. of Sub-villages (Aldeia)	Suco	Faturasa	Fadabloco	Hautoho	Madabeno	Talitu	Tohumeta
1.2 Area (km²) < 1	1. General Features						
1.3 Population in 2014 < 2	1.1 No. of Sub-villages (Aldeia)	4	4	3	3	6	4
1.4 Household in 2014 < 2	1.2 Area (km <sup>2</sup> ) <1	48.22	17.64	15.22	7.67	11.54	22.82
1.5 Distance from Dili (Driving hrs)   3 hours   2 hours   NovFeb.   OctFeb.   Oct	1.3 Population in 2014 <2	1,220	1,600	600	813	572	1,327
1.6 Food shortage period	1.4 Household in 2014 <2	244	320	120	160	335	228
2. Agricultural Condition   2.1 Average Land holding size (ha/HH)    - Permanent farm	1.5 Distance from Dili (Driving hrs)	3 hours	2 hours	2 hours	1 hour	1.5 hours	1 hour
2.1 Average Land holding size (ha/HH)   - Permanent farm   2.0   1.9   0.9   0.7   1.2   0.9     - Coffee plantation   0.7   1.5   1.4   1.4   1.7   0.5     - Area for shifting cultivation   0.03   N.A.   N.A.   0.4   1.5   1.1     2.2 Major crops grown in the area   Maize, cassava, sweet potato, beans, and orange   Maize, cassava, beans, coffee   Coffee, clove   Coffee, clove     - Maize   0.5   0.5   0.5   0.5   0.4   0.2   0.1     - Cassav   0.5   0.4   0.6   0.3   0.4   0.2     - Sweet potato   0.4   0.3   0.5   0.3   0.3   0.3     - Coffee   0.2   0.2   0.2   0.4   0.2   0.1     - Vegetables     0.2     - Vegetables     0.2     - Cattle   45   33   22   40   15   22     - Goat   70   73   52   60   47   55     - Pig   100   95   93   70   77   88     - Ratio of household   100%   100%   100%   100%   100%   100%     - Ratio of household   100%   100%   100%   100%   100%     - Frequency of collection   3.6   2.9   4.4   2.5   2.5   2.5   2.6     - Volume of collection   3.6   2.9   4.4   2.5   2.5   2.5   2.6     - Volume of collection   3.6   2.9   4.4   2.5   2.5   2.5   2.6     - Continual resource management   2.5   2.5   2.5     - Continual resource forms   2.5   2.5   2.5     - Continual resource for	1.6 Food shortage period	NovFeb.	OctFeb.	NovFeb.	OctFeb.	OctFeb.	JanFeb.
- Permanent farm	2. Agricultural Condition						
- Coffee plantation	2.1 Average Land holding size (ha/HH	Í)					•
- Area for shifting cultivation 2.2 Major crops grown in the area  Maize, cassava, sweet potato, beans, and orange  Maize, cassava, seet potato, beans, and orange  2.3 Average yelds of crops (ton/ha)  - Maize  - Maize  - Maize, cassava, beans, coffee  - Maize  - Cassav  - Cas	- Permanent farm	2.0	1.9	0.9	0.7	1.2	0.5
Maize, cassava, sweet potato, beans, and orange   Maize, cassava, sweet potato, beans, and orange   Maize, cassava, beans, coffee   Cassava, coffee   Cass	- Coffee plantation	0.7	1.5	1.4	1.4	1.7	0.5
Cassava, beans, coffee   Cassava, cassava, coffee   Cassava, cof	- Area for shifting cultivation	0.03	N.A.	N.A.	0.4	1.5	1.1
beans, coffee   coffee, clove   coffee	2.2 Major crops grown in the area	Maize, cassava, sw	eet potato, bean	s, and	Maize,	Maize,	Maize, cassava,
2.3 Average yelds of crops (ton/ha)  - Maize  0.5  0.5  0.5  0.4  0.6  0.3  0.4  0.4  0.5  - Sweet potato  - Coffee  0.2  0.2  0.2  0.3  - Vegetables		orange			cassava,	cassava,	
- Maize					beans, coffee	coffee, clove	coffee
- Cassav	2.3 Average yelds of crops (ton/ha)						
- Sweet potato 0.4 0.3 0.5 0.3 0.3 0.1 0.1 - Coffee 0.2 0.2 0.2 0.2 0.4 0.2 0.1 - Vegetables 0.2 0.2 - Cattle 0.5 0.2 0.2 - Cattle 0.5 0.2 0.2 - Cattle 0.5	- Maize	0.5	0.5	0.5	0.4	0.2	0.1
- Coffee	- Cassav	0.5	0.4	0.6	0.3	0.4	0.4
- Vegetables 0.2 2.4 Ratio of household who own animals (%)  - Cattle	- Sweet potato	0.4	0.3	0.5	0.3	0.3	0.1
2.4 Ratio of household who own animals (%)  - Cattle	- Coffee	0.2	0.2	0.2	0.4	0.2	0.1
- Cattle	- Vegetables	-	-	-	-	-	0.2
- Goat 70 73 52 60 47 55 - Pig 100 95 93 70 77 88  3. Natural Resource Management 3.1 Use of firewood - Ratio of household 100% 100% 100% 100% 100% 100% 100% 100	2.4 Ratio of household who own anim	als (%)		•			
- Pig 100 95 93 70 77 88  3. Natural Resource Management 3.1 Use of firewood	- Cattle	45	33	22	40	15	25
3. Natural Resource Management     3.1 Use of firewood     100% <td>- Goat</td> <td>70</td> <td>73</td> <td>52</td> <td>60</td> <td>47</td> <td>55</td>	- Goat	70	73	52	60	47	55
3.1 Use of firewood  - Ratio of household  - Frequency of collection (times/wk)  - Volume of collection (bundle/time)  - Ratio of household  100%  100%  100%  100%  100%  100%  100%  100%  100%  100%  100%  100%  2.5  2.5  2.6	- Pig	100	95	93	70	77	88
- Ratio of household         100%<	3. Natural Resource Management						
- Frequency of collection (times/wk)     3     3     3     4     4     2       - Volume of collection (bundle/time)     3.6     2.9     4.4     2.5     2.5     2.5	3.1 Use of firewood						
(times/wk)     3.6     2.9     4.4     2.5     2.5     2.4       (bundle/time)     3.6     2.9     4.4     2.5     2.5     2.4	- Ratio of household	100%	100%	100%	100%	100%	100%
- Volume of collection (bundle/time) 3.6 2.9 4.4 2.5 2.5 2.5 2.6	- Frequency of collection	3	3	3	4	4	2
(bundle/time)	(times/wk)						
	- Volume of collection	3.6	2.9	4.4	2.5	2.5	2.4
3.2 NTFPs Honey, Bamboo Bamboo Bamboo Tua mutin Tua mutin	(bundle/time)						
	3.2 NTFPs	Honey, Bamboo	Bamboo	Bamboo	Bamboo	Tua mutin	Tua mutin

Note:

Source: JICA Project Team (2015)

### 3.2 Participatory Land Use Planning

After the village profile survey, the same NGOs hired by the JICA Project Team carried out the participatory land use planning (PLUP) activities with technical assistance of the JICA Project Team in 2011 and 2012 to help village leaders and communities in the target sucos develop future land use plans and village regulations in a participatory manner.

**Activities carried out in the Course of PLUP** 

Activity	Results	
Organization of a working group	Each village organized a working group composed of 20~25 persons including the members of succouncil, elders, and other key informants in the sucos.	со
Exposure visit	Prior to the conducts of the PLUP activities in the sucos, the members of the working groups of the target sucos were taken to the village where the village regulations had been already in place so that the members could get a clear picture of the process and results of the PLUP activities through dialogues with village leaders in the host village.	

<sup>&</sup>lt;1 Data are from ALGIS.

 $<sup>&</sup>lt;\!\!2$  Data are updated by the statistic data in 2014.

Activity	Results	
Present land use mapping	The working groups except that of Suco Faturasa made present land use maps of the sucos with the assistance of the NGOs and JICA Project Team.	
Future land use planning	The working groups dicussed how to use and manage the lands in the sucos with the assistance of the NGOs and JICA Project Team. In the meetings, the working groups decided to: i) protect the existing dense forests; ii) improve/rehabilitate the degraded forests; iii) use the severely degraded forests for production purposes; and iv) convert the existing shifting cultivation areas into coffee plantations, orchards, and permanent farms with soil conservation/agroforest techniques.	
Review of the customary rules/ existing village rules	Each working group had a one-day meeting to review and evaluate the past and current rules in the suco. They also assessed the effectiveness of the customary /existing rules as well as necessary revision to be made in the customary/existing village rules.	
Discussions on the village regulations	Based on the discussions made in the future land use planning and review of the customary/existing village rules in the sucos, the JICA Project Team prepared the draft viage regulations of the target sucos in advance of the meetings. The working groups had discussions on the village regulations based on the draft ones prepared by the JICA Project Team.	
Review of the draft village regulations to village leaders	Having revised the draft village regulations based on the results of the discussions, the NGOs made a presentation of the draft village regulations to the working groups and helped the members of the working groups check if there was no discrepancy between the revised one and their ideas. After the meetings, the JICA Project Team further revised the village regulations based on the comments and suggestions given by the members.	
g. Consultations with other communities at the aldeia level	The working groups with the assistane of the NGOs held consultation meetings at the aldeia level and explained the draft village regulations with future land use plans to local communities in the respective sucos.	
Finalization of the village regulations	The JICA Project Team and the NGOs finalized the villaege regulations of the target on the discussions in the consultation meetings with local communities.	et sucos based
Tara Bandu ceremonies at the target villages	In order to publicly announce the village regulations and future land use plans to local communities in and around the sucos, each target suco held the Tara Bandu ceremony.	

Source: JICA Project Team (2015)

### 3.3 Implementation of the Village Regulations

Although the village regulations were put in place in the target sucos after the Tara Bandu ceremony, it was still difficult for village leaders of the target villages to govern the sucos using the village regulations. There was a need to familiarize them with the village regulations and enhance their understanding of the village regulations among not only village leaders but also other local communities in the target sucos. The NGOs have helped village leaders hold the following meetings on a regular basis to enable them to use the village regulations to solve/settle issues happening in the villages.

- i) Monthly monitoring meeting at the suco level
- ii) Bi-monthly or quarterly information sharing meeting at the aldeia level

### 3.4 Selection of Priority Micro Programs

After PLUP, village leaders and other communities had the following consecutive workshops/meetings with the assistance of the NGOs and JICA Project Team to select and prioritize the potential micro programs suitable in the local settings of the target sucos.

Workshops for Selection of Micro Programs

Activities

- Explain the objectives and process of micro programs.
- Present potential micro programs that can be implemented.
- Hold separate meetings with male and female participants..
- Help the participants short-list the potential micro programs.
- Explain the evaluation criteria for selection of micro programs to the participants.
- Assist the participants in the evaluation of the short-listed micro programs using the evaluation criteria.
- Assist them in the selection of one or two priority micro program/s.
- Assist village leaders in explaining the process that they have taken for selection of the priority micro program/s.
- Facilitate their discussions among communities to enable them to deepen their

Source: JICA Project Team (2015)

Workshop

1st Workshop

2<sup>nd</sup> Workshop

Consultation meetings

3<sup>rd</sup> Workshop

Through a series of the meetings, the target villages selected the following programs.

understanding of the priority micro program/s.

### Suco Faturasa

 Sustainable Upland Farming Promotion with Community-Based Seed Extension Micro Program (SUFP with CBSE-MP)

Discuss the provisional scope/s of the priority micro program/s as well as roles and responsibilities of key stakeholders in the implementation of the micro program/s.

### Sucos Fadabloco and Hautoho

- i) Sustainable Upland Farming Promotion with Community-Based Seed Extension Micro Program (SUFP with CBSE-MP)
- ii) Income Generating/Livelihood Development Micro Program (IG/LD-MP)

### Sucos Talitu and Madabeno

- i) Seedling Production and Tree Planting Promotion Micro Program (SPTPP-MP)
- ii) Sustainable Upland Farming Promotion Micro Program (SUFP-MP)

### Suco Tohumeta

i) Sustainable Utilization of Backyard/Permanent Farm Micro Program (SUB/PF-MP)

### 3.5 Implementation of the Micro Programs in the Target Village

The micro programs had been implemented in a phased manners in consideration of the NGOs' capacity; therefore, the target sucos were divided into two (2) groups: Batch 1, in which the micro programs started in the 1<sup>st</sup> quarter of 2012, and Batch 2, where the micro programs began one year after those of batch 1 (in the 1<sup>st</sup> quarter of 2013). The overall implementation schedule of the micro programs in the target sucos is shown below.

 Overall Implementation Schedule of the Micro Programs in the Target Sucos

 Suco
 2012
 2013
 2014
 2015

 Ist Q
 2nd Q
 3rd Q
 4th Q
 1st Q
 2nd Q
 3rd Q
 4th Q
 1st Q
 2nd Q
 3rd Q
 4th Q
 1st Q
 2nd Q
 2nd Q
 <t

Source: JICA Project Team (2015)

Each micro program comprised two (2) cycles of Farmers Field Schools (FFSs)/hands-on training courses, which introduced all the techniques relevant to the micro programs. The major activities commonly carried out in the micro programs are shown below.

Batch

Batch 2

- i) Preparatory works in the 1<sup>st</sup> year
- ii) 1<sup>st</sup> year FFSs and technical assistance
- iii) Participatory evaluation and planning of an annual work plan
- iv) Preparatory works in the 2<sup>nd</sup> year
- v) 2<sup>nd</sup> year FFSs and technical assistance
- vi) Participatory evaluation and planning of an annual work plan

Moreever, SUFP-MP/SUFP with CBSE-MP/SUB/PF-MP employed a two-step extension approach to disseminate key techniques of the micro programs to the majority of the members. In the 2<sup>nd</sup> year, the beneficiaries' groups further formed several sub-groups under the groups by dividing their members based on the locations of farms or houses and conducted one cycle of FFSs/hands-on training on selected key techniques at one of the members' plots (which were called the "sub-group demonstration plot"). The strategy behind the approach was to encourage the members to help each other apply key techniques to their own farms according to the customary collective working system or mutual aid system in the sucos.

### 3.5.1 Results of the First (1<sup>st</sup>) Batch Sucos

The results of the activities carried out in the first batch sucos are summarized below.

**Summary of the Preparatory Works** 

			initially of the Frequency Horico
Year	Stage	Major Activities	Results
1 <sup>st</sup> year	Preparatory works	Organization of the beneficiaries' groups	A total of 24 beneficiaries'/women groups composed of 807 members were formed for the micro programs in January 2012.
		Exposure visits/ study tours for the beneficiaries'/ women groups	In February 2012, a total of 247 members of the beneficiaries'/women groups of the micro programs participated in the exposure visits/study tours to sucos where similar activities had been carried out so that core member could have a clear picture of the micro programs.
		Preparation of work plans of the micro progrms	Overall work plans of the respective micro programs were discussed and prepared by the beneficiaries'/women groups in the meetings held with the participation of 266 members in March 2012.
	1 <sup>st</sup> FFSs and technical assistance	FFSs/hands-on training courses for SUFP with CBSE-MP in Sucos Faturasa and Fadabloco	<ul> <li>A total of 10 demonstration plots were developed by the beneficiaries' groups in Sucos Faturasa and Fadabloco.</li> <li>A series of FFSs/training sessions covering the following topics had been held at each demonstration plot in both sucos from June 2012 to March 2013.         <ul> <li>Compost making</li> <li>Delineation of contour lines</li> <li>Application of soil conservation measures</li> <li>Cultivation and application of compost</li> <li>Seed selection andsowing of seeds</li> <li>Making of liquid fertilizer</li> <li>Farm management (weeding, application of liquid fertilizer, and fixing of terrces)</li> <li>Planting of oother upland crops</li> <li>Harvesting and post-harvesting</li> </ul> </li> <li>The beneficiaries' groups produced improved varieties</li> </ul>
			of maize, peanut, sweet potato, and cassava in the demonstration plots. The average productivity of the improved maiz planted in the plots was about 200:1 (production: seeds), which was significantly higher than the national average yield of maize (about 30: to 50:1)

Year	Stage	Major Activities	Results
1 <sup>st</sup>	1 <sup>st</sup> FFSs and	Hands-on training	◆ The women groups identified and selected the
1	technical	_	
year		courses for	following income generating/livelihood development
	assistance	IG/LD-MP in	activities as potentially promssing options after
		Suco Fadabloco	assessment of natural and social resources available in
			the localities.
			- Dried sweet potato production
			- Herb tea production
			- Salted vegetable production
			- Clothes making and bag making by sewing machine
			◆ The NGO had arranged and held a total of 35 training
			sessions on the above-listed topics from May 2012 to
			Februry 2013. Another one day session on chips
			making was held by the NGO with the assistance of
			the Japanese NGO (PARCIC).
			◆ The NGO also tried to enhance members' knowledge and skills on
			marketing and business management by providing the following
			opportunities to members.
			- Participation in the exhibitions
			- Lecture on marketing
			- Lecture on financial management
			◆ The women groups had continued some activities, such as production
			of banana chips and mending of clothes using sewing machines. The
			groups had been able to earn petty cash income from those activities.
		FFSs/hands-on	◆ A total of 10 nurseries and 12 demntrtion plots for
		training courses	planting of seedlings were established in Sucos
		for SPTPP-MP in	Madabeno and Talitu.
		Sucos Madabeno	◆ A series of FFSs/training sessions covering the
		and Talitu	following topics were held at each nursery and
			demonstration plot, respectively, in both sucos from
			May 2012 to January 2013.
			FFSs at the nurseries FFSs at the demonstration plots
			- Seedbed making - Delineation of contur lines
			- Selection and preparatin of - Staking and pitting
			seeds - Refilling and planting
			- Sowing of seeds - Staking and pitting
			- Preparation of poly bags - Transplanting of sprouts
			- Maintenance of seedlings
			◆ About 22,000 seedlings were produced and shared by
			members of the beneficiaries' groups. According to
			the NGO, all the seedlings given to members were
			planted in members' plots/farms.
		FFSs/hands-on	◆ A total of nine (9) demonstration plots were
		training courses	developed in Sucos Madabeno and Talitu.
		for SUFP-MP in	◆ A series of FFSs/training sessions covering the
		Sucos Madabeno	following topics were held at each demonstration plot
		and Talitu	in both sucos from August 2012 to June 2013.
		and runta	- Compost making (including maintenance)
			- Compost making (including maintenance) - Delineation of contour lines
			(1) 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
			- Application of soil conservation measures
			- Cultivation and application of compost
			- Sowing/planting of seeds and planting materials
			- Making of liquid fertilizer
			- Maintennce of farm
			- Harvesting and post-harvesting
			◆ Although the beneficiaries' groups were able to
			harvest improved maize, its production was not as
			high as expected due to unfavorable climatic
			conditions, and low soil fertility. The average ratio of
			production to seeds sown in the demonstration plots was about 60:1,
			which was rather h than those observed in the plots in Fadabloco and
			Faturasa. However, some demonstration plots, of which soil fertility
		<u> </u>	was rather high, showed better performance.

Year	Stage	Major Activities	Results	
2 <sup>nd</sup>	Participatory monitoring and evaluation	Meetings with members of the beneficiaries'/ women groups at the first batch sucos	of the micro programs in the 1s each for the micro programs to discuss necessary improvements t  ◆ The groups also discussed and respective micro programs in 2 NGOs in the meetings.	neficiaries' groups and women groups to batch sucos had a two-day meeting evaluate the results of the FFSs and no make the 2nd year FFSs effective. developed annual work plans of the 013/2014 with the assistance of the
year	technical assistance	training courses for SUFP with CBSE-MP in Sucos Faturasa and Fadabloco	beneficiaries' groups re-organize customary collective working syin the sucos. A total of 32 sub-gro  ◆ Almost the same FFS sessions had plots from May 2013 to May arranged the sessions on key technology the same period to encountersential to sustainable upland far	members into sub-groups based on the stem or the proximity of their houses tups were formed in April 2013. In the main demonstration 2014, while the NGO had further aniques at the sub-demonstration plots trage members to apply key technique ming to their own farms.
			helped each other apply the tech farms with technical assistance fr all the 315 members applied the k  In general, the productivity of ma as high as it was expected to be rainfalls and insufficient applies.	or rather lower due to the fluctuated cation of compost, although some
		Hands-on training courses for IG/LD-MP in Suco Fadabloco	national average.  ◆ The following hands-on training the NGO to upgrade the skills of the Production of pickled vegetaber. Clothes making using sewinger. Cassava chips productione. The women groups had conting cassava chips to improve the qual the NGO and JICA Project Team the same in Dili. As a result, the their products in the major super the women groups had earned a cassava chips, while each women	les machines nuously practiced the production of ity of cassava chips. At the same time, had promoted cassava chips to market e women groups became able to sell markets in Dili.  total of US\$ 542.5 from the sales of group had earned about US\$ 10 to 20 ato and repair of clothes using sewing
2 <sup>nd</sup> year	2 <sup>nd</sup> FFSs and technical assistance	FFSs/Hands-on training courses for SPTPP-MP in Sucos Madabeno and Talitu	<ul> <li>The beneficiaries' groups revised formed a total of 14 sub-groups of 2<sup>nd</sup> year FFSs.</li> <li>The NGO assisted each sub-group a demonstration plot. The FFS</li> </ul>	d the membership of the groups and composed of 338 members before the p in the establishment of a nursery and sessions on the following topics had demonstration plot, respectively, from  FFSs at the demonstration plots  - Compost making - Turn-over of compost

Year	Stage	Major Activities	Results
		FFSs/Hands-on training courses for SUFP-MP in	<ul> <li>◆ About 26,700 seedlings had been raised through FFSs in 2013/2014. Out of the seedlings produced in the nurseries, about 22,600 seedlings were shared among members of the beneficiaries' groups in both villages for planting. About 3,360 seedlings were left in the nurseries for distribution in 2014/2015 as those were still too small to plant.</li> <li>◆ Like SUFP with CBSE-MP in Sucos Faturasa and Fadabloco, the NGO helped the beneficiaries' groups organize sub-groups under the respective beneficiaries' groups based on the customary collective</li> </ul>
		Sucos Madabeno and Talitu	working system. A total of 20 sub-groups were organized in both sucos.  ◆ Each group selected one of members' plots as a sub-group demonstration plot to introduce the two (2) step extension approach.  ◆ The NGO had held a series of FFSs/hands-on training sessions at the main and sub-group demonstration plots from May 2013 to June 2014.  FFS at main demonstration plots FFSs at sub-group demonstration plots  - Compost making and maintennce of compost - Land clearing - Plowing with compost application - Slection and sowing of seeds - Preparation of liquid fertilizer - Planting of cassava and sweet potato - Sowing seeds of peanut and mung bean - Weeding and application of liquid fertilizer - Building of an animal pen - Harvsting and post-harvesting of maize
	Participatory	Meetings with	<ul> <li>▶ Like in the case of SUFP with CBSE-MP in Sucos Fadabloco and Faturasa, members of the beneficiaries' groups applied the techniques that they practiced in the sub-group demonstration plots to their own farms. Accordingly, all the 232 members (or 100 % of the members) produced compost and applied the contour composting technique to their own farms, while 204 members or 88% of the members used liquid fertilizer for additional fertilization to maize.</li> <li>♦ Generally, the yields of maize in the main and sub-group demonstration plots were as low as the national average or rather lower than the same except some of the main and sub-demonstration plots. Unstable ranfalls, low soil fertility, and insufficient application of compost were considered as the main causes of low yield.</li> <li>♦ Like in the case of the 1st year, the beneficiaries' and women groups</li> </ul>
	monitoring and evaluation	members of the beneficiaries'/ women groups at the first batch sucos	evaluated the training courses as well as the results of the 2nd year FFSs. They also discussed whether or not they would like to continue the micro program activities as the 3rd year FFSs. All the beneficiaries' groups showed their intention to continue the same activities as they judged that the activities introduced by the micro programs were effective in improving their livelihoods.  ◆ It was, therefore, agreed by the beneficiaries' groups and the JICA Project Team as well as the NGOs that the groups would continue the micro program activities on the following conditions:  - Seedling production under SPTPP-MP should be continued by using the GoTL's funding scheme named "the Community Development Fund."  - The 3rd year FFSs of SUFP with CBSE-MP and SUFP-MP should be continued with limited support from the NGOs.  - Livelihood activities effective in generating cash income should be continued on the initiative of the women groups.  ◆ The groups also developed annual work plans of the micro programs in 2014/2015 along the lines given above.
3 <sup>rd</sup> year	3 <sup>rd</sup> FFSs and technical assistance	FFSs/hands-on training courses for SUFP with CBSE-MP in Sucos Faturasa and Fadabloco	<ul> <li>Members of the beneficiaries' groups had engaged in another round of FFSs in 2014/2015. The same topics as handled in the sessions of the 2nd year FFSs had been arranged and held at both main and sub-group demonstration plots, respectively.</li> <li>All the 312 members of the beneficiaries groups had applied the techniques that they practiced in the sub-group demonstration plots to their own farms with technical assistance from the NGO.</li> <li>The average ratio of production to the volume of seed sown in the demonstration plot was about 40:1, which was as low as that of the national average.</li> </ul>

Year	Stage	Major Activities	Results
3 <sup>rd</sup>	3 <sup>rd</sup> FFSs and	OJT / technical	◆ The women's groups had kept producing cassava chips even without
year	technical	assistance for	technical assistance from the NGO. As a result of the continuous
	assistance	IG/LD-MP in	activities, the groups had delivered a total of 2,487 packages of cassava
		Suco Fadabloco	chips to major super markets in Dili and earned more than US\$ 3,000
			from the sales as of the end of June 2015.
			◆ In response to the request from PARCIC, the women groups had
			produced about 4 kg of herbal tea made of daleta leaves and earned
			US\$ 60 by selling them to PARCIC at a price of US\$ 15/kg.
			◆ The women groups kept using sewing machines and earned cash
			income from mending clothes of communities. The NGO has
			periodically assisted the women's groups in improving their skills.
			◆ The NGO held training sessions on book keeping so that the women
			groups could keep a book of account and manage the earning in a proper manner.
			◆ The NGO and the JICA Project Team also held meetings with the
			women group Team to discuss how the groups would use the earnings
			(about US\$ 2,500 as of the time of the meetings) from the sales of
			cassava chips. The members decided to use the earnings in the
1			following manners.
1			- 20 % of the earnings would be shared among the members and
			saved as personal savings of the members.
			- 50 % of the earnings would be used for operations and expansion
			of the livelihood activities.
			- 30 % of the earnings would be used for micro credit.
			◆ In April 2015, the women groups started the micro credit for members
1		EEC-/	who had actively participated in cassava chips production.
		FFSs/hands-on training courses	◆ The beneficiaries groups of SPTPP-MP decided to continue the production of fruit seedlings in the existing nurseries in 2014/2015 by
		for SPTPP-MP in	using the GoTL's funding scheme named the Community Development
		Sucos Madabeno	Fund. Prior to the nursery operation, the beneficiaries groups confirmed
		and Talitu	members' willingness to continue the seedling production activities. A
			total of 268 members in 13 groups agreed to continue the nursery
			operations in 2014/2015.
			◆ The beneficiaries groups had engaged in the same activities in the
			nurseries as practiced in the 2 <sup>nd</sup> year FFSs and produced about 14,000
			seedlings in both sucos in 2015.
			◆ A total of 273 members planted the seedlings in their own plots with
		PPG # 1	technical assistance of the NGO.
		FFSs/hands-on	◆ Likewise, the beneficiaries groups had engaged in another round of
		training courses for SUFP-MP in	FFSs on sustainable upland farming in the main and sub-group demonstration plots.
1		Sucos Madabeno	<ul> <li>The average ratio of the production to the volume of seed was about</li> </ul>
1	1	and Talitu	40:1, which was as low as the national average.
1	1	and runtu	◆ The members of the beneficiaries groups also applied the techniques
1			that they practiced through the FFSs to their own farms with technical
1			assistance of the NGO. More than 90 % of the members applied
1			compost to their own farm, while about 80 % of the same planted
[			fodder trees in terraces.
1	Final	Meetings with the	◆ The NGOs arranged and held a one-day meeting each for the respective
1	evaluation of	beneficiaries'	micro programs with the beneficiaries'/women groups and helped the
1	the micro	groups	groups evaluate the results of the micro programs and develop work
1	programs		plans of the respective micro programs so that the groups could
1			continue similar activities even in the post-project periods.
1			◆ The beneficiaries'/women groups of the micro programs, except those of SUFP-MP in Sucos Madabeno and Talitu, decided to continue the
1			micro program activities even with limited support from the NGOs.
	IICA Project Tear	(2015)	micro program activities even with inflited support from the NGOs.

Source: JICA Project Team (2015)

### 3.5.2 Results of the Second Batch Sucos

The micro progams in the second batch sucos had been implemented in the same manner as those implemented in the first batch sucos. The preparatory works started in January 2013, and the micro programs had been implemented for about two (2) years from April 2013 to August 2015.

**Summary of the Preparatory Works** 

**	Summary of the Preparatory Works				
Year	Stage	Major Activities	Results		
1 <sup>st</sup> year	Preparatory works	Organization of the beneficiaries' groups	A total of 14 beneficiaries'/women groups composed of 227 members were formed for the micro programs in the second batch sucos in January/February 2013.		
		Exposure visits/ study tours for the beneficiaries'/ women groups	A total of 69 members of the beneficiaries'/women groups of the micro programs participated in the exposure visits/study tours to sucos where similar activities had been carried out in February 2013.		
		Preparation of work plans of the micro programs	The beneficiaries'/women groups discussed and prepared overall work plans of the respective micro programs in March 2013.		
	1 <sup>st</sup> FFSs and technical assistance	FFSs/hands-on training courses for SUFP with CBSE-MP in Suco Hautoho	<ul> <li>◆ Three (3) demonstration plots or one (1) demonstration plot each of the beneficiaries' groups were developed by the groups with technical assistance of the NGO.</li> <li>◆ A series of FFSs/training sessions covering the following topics were held at each demo nstration plot in Suco Hautoho.</li> <li>- Compost making including maintenance of compost</li> <li>- Delineation of contour lines</li> <li>- Application of soil conservation measures</li> <li>- Cultivation and application of compost</li> <li>- Seed selection andsowing of seeds</li> <li>- Making of liquid fertilizer</li> <li>- Farm management (weeding, application of liquid fertilizer, and fixing of terrces)</li> <li>- Planting of sweet potato</li> <li>- Appliction of gtreen manure</li> <li>- Harvesting and post-harvesting of maize</li> <li>- Fixing of terraces</li> <li>◆ The average ratio of production to the volume of seed in the demonstration plots was around 80:1, which was higher than the national average (30~50:1) but rather lower than the potential yield (100~150:1). However, the result of one of the demonstration plots indicated the possibility of acheiving about 3 ton per hector if soil and</li> </ul>		
		Hands-on training courses for IG/LD-MP in Suco Hautoho	climate conditions were favorable  ◆ The women groups assessed natural resources available in the suco and identified the following livelihood activities as potential livelihood activities in March 2013.		
			<ul> <li>i) Salted vegetable production</li> <li>ii) Dried sweet potato production</li> <li>iii) Herbal tea production</li> <li>iv) Cassava chips production</li> <li>v) Use of sewing machines</li> <li>◆ The NGO had arranged and held a total of 12 training sessions on the above-listed topics from June 2013 to January 2014.</li> </ul>		
			◆ The women groups had continued practicing sewing machines and making dried sweet potato on their own initiative after hands-on training sessions held by the NGO. Nevertheless, the groups had not been able to earn cash income from the activities in 2013/2014.		
		FFSs/hands-on training courses for SUB/PF-MP in Suco Tohumeta	<ul> <li>◆ Each beneficiaries' groups developed one (1) demonstration plot with technical assistance of the NGO; therefore, a total of eight (8) demonstration plots were developed in Suco Tohumeta.</li> <li>◆ A series of FFSs/training sessions covering the following topics had been held at each demonstration plot in Suco Tohumeta from April 2013 to May 2014.</li> <li>- Compost making and maintenance of compost</li> <li>- Delineation of contour lines and application of</li> </ul>		

Year	Stage	Major Activities	Results	
Tem.	Sunge .		contour composting technique  Plowing and application of compost  Application of compost basket  Selection and sowing of maize and beans  Pitting and refilling of pits with compost  Making of liquid fertilizer  Planting of sweet potato, cassava and mung beans  Farm maintenance  Building of an animl pen  Harvesting and post- harvesting  Maintenance of terraces  The average yield of maize (or average ratio of production to the volume of seed sown) in the demonstration plots was about 130:1, which was far higher than the national average (50:1). The results suggested that techniques introduced could drastically improve the productivity of maize in the suco.	
	Participatory monitoring and evaluation	Meetings with members of the beneficiaries'/ women groups at the second batch sucos	<ul> <li>◆ The beneficiaries' and women groups of the micro programs two-day meeting each for the micro programs in Februry/March to evaluate the results of the 1st year FFSs and develop an annual plan of each program for the 2nd year.</li> <li>◆ It was agreed by the beneficiaries' groups and the NGOs in meetings that:         <ol> <li>i) the two-step extension approach be introduced in the 2nd curriculum of SUFP with CBSE-MP to disseminate the techniques as many members of the groups as possible;</li> <li>ii) due consideration be given to marketing of products product the women groups of IG/LD-MP; and</li> <li>iii) production of fruit seedlings be incorporated in the 2nd curriculum of SUB/PF-MP since its members intened to plant trees in their farms.</li> </ol> </li> </ul>	in the d year e key ced by
2 <sup>nd</sup> year	2 <sup>nd</sup> FFSs and technical assistance	FFSs/hands-on training courses for SUFP with CBSE-MP in Suco Hautoho	<ul> <li>Prior to the 2<sup>nd</sup> FFSs/hands-on training sessions, the NGO helph beneficiaries' groups re-organize their members into sub-gaccording to the locations of the houses/farms of the members. A of 10 sub-groups were formed under three (3) beneficiaries' gach sub-group selected one of the members' plots as a sub-demonstration plot for FFSs on key techniques at the sub-group leteration of training sessions main and sub-group demonstration plots, respectively, from May to May/June 2015.</li> <li>FFS at main demonstration plots         <ul> <li>Compot making</li> <li>Building of an anima pen</li> <li>Plowing and application of compost</li> <li>Selection and sowing of seeds</li> <li>Harvesting of liquid fertilizer</li> <li>Farm maintenance (1st time)</li> <li>Planting of cassava and sweet potato</li> <li>Fixing of terraces</li> <li>Harvesting of red beans</li> <li>Farm maintenance (2nd time)</li> <li>Planting of green manure (lehe)</li> <li>Planting of fruit seedlings</li> <li>Harveting and postharvesting of maize</li> </ul> </li> <li>◆ All the 110 members of the beneficiaries' groups had applied the techniques, such as compost making, application of compost application to the volume of seed sown was more than 80:1.</li> </ul>	groups A total roups. group vel. in the 7 2014  plots  at to thing of  me key t, and a plots

Year	Stage	Major Activities	Results
2 <sup>nd</sup>	2 <sup>nd</sup> FFSs and	Hands-on training	◆ A total of 13 sessions covering the following topics were arranged and
year	technical	courses for	held by the NGO from May to November 2014.
	assistance	IG/LD-MP in	- Production of salted vegetables
		Suco Fadabloco	- Kontas chips production
			- Use of sewing machines
			• After the sessions on kontas chips production, the women groups had
			continued the production of kontas chips to become able to produce marketable products. Having had a total of nine (9) OJT sessions, the
			women groups started delivering kontas chips to major super markets
			in Dili in October 2014. As of the end of July 2015, the groups have
			delivered about 100 packages of kontas chips to the major
			supermarkets and earned about US\$ 700 from the sales, although the
			groups suspended the production of kontas chips from January to June
			2015 due to a shortage of raw material.
			◆ The groups have also been able to earn cash income from mending
			clothes by using sewing machines. Like in Suco Fadabloco, the women
			groups had produced and sold about 1.5 kg of herbal tea to PARCIC
		Hands-on training	and earned about US\$ 22 from the sales.  ◆ The NGO held the following FFSs/hands-on training sessions in the
		courses for	main demonstration plots in Suco Tohumeta from May 2014 to
		SUB/PF-MP in	May/June 2015.
		Suco Tohumeta	- Making of seedling beds
			- Sowing of seeds
			- Compost making
			- Maintenance of compost
			- Delineation of contour lines and application of contour compost
			<ul><li>Plowing and application of compost</li><li>Selection and sowing of seeds</li></ul>
			- Selection and sowing of seeds - Preparation of liquid fertilizer
			- Farm maintenance (1st)
			- Farm maintenance (2nd)
			- Trimming and application of mulches
			- planting of fodder crops/trees
			- Harvesting and post-harvesting of maize
			◆ After hands-on training sessions in the demonstration plots, members
			of the beneficiaries' groups had helped each other apply the techniques
			that they practied in the demonstration plots to their own farms following the customary collective working system named "harosan."
			All the 85 members had applied the key techniques of sustainable
			upland farming to their own farms/plots.
			◆ The average productivity of maize grown in the demonstration plots
			was twice as high as that of the national average. In all the
			demonstration plots, the ratio of production to volume of seeds sown
			was more than 100:1. The results suggested that the average yield of
			maize in farms where the same techniques were introduced might be more or less 2 ton/ha.
	Final	Meetings with	but the case of the 1st batch sucos, the NGOs held a one-day     the last batch sucos, the NGOs held a one-day
	evaluation of	members of the	meeting each for the respective micro programs to help the
	the micro	beneficiaries'/	beneficiaries'/women groups evaluate the results of the micro programs
	programs	women groups at	and develop work plans of the respective micro programs.
		the second batch	◆ The groups reviewed their performance and results of the micro
		sucos	programs, discussed any difficulties that they had faced, evaluated the
			effectiveness and applicability of the techniques that the micro
			programs introduced in the meetings. They also prepared an annual
			work plan of the micro programs in 2015/2016 as all the groups showed their intention to continue the micro program activities even
			after the end of the support from JICA.
Course	: JICA Project Tear	(2015)	one of the support from Fig.

Source: JICA Project Team (2015)

### 3.6 Exchange Visits (Harvesting Ceremonies) at the Target Villages

With an aim to encourage and motivate village leaders and key members of the beneficiaries'/women groups to work for the micro programs, the NGOs and the JICA Project Team had arranged and organized an exchange visit for the members of the

beneficiaries'/women groups twice over the course of the micro programs: a harvesting ceremony at Suco Hautoho in 2014 and another harvesting ceremony at Suco Tohumeta in 2015. In the exchange visits, village leaders and key members of host communities introduced their activities and results of the micro programs and had meetings with visitors to exchange their views. The exchange visits became a good opportunity not only for the participants to get stimulated but also for key members in the host sucos to enhance a sense of ownership of the micro programs.

### 3.7 Establishment of a Watershed Management Council

Although the incidence of forest fires, illegal cutting, and crop damage caused by animal grazing has been drastically reduced since the village regulations were in place in the target sucos, there have been still illegal cases happening in the sucos as the village regulations in one suco can not regulate illegal activities caused by people living in the neighboring sucos. In order to develop a latform where the target and the neighboring sucos could have dialogues and take necessary actions to minimize the illegal activities at the sub-watershed level, the JICA and MAF Project Teams together with the NGO have had the following meetings with leaders of two (2) sub-district administrative offices (Remexio and Liquidoe Sub-districts) and 12 sucos geographically relting to the Noru sub-watershed from May 2014 to October 2015.

Meetings held to Establish and Operationalize a Watershed Management Council

Meetings held to Establish and Operationalize a Watershed Management Council				
Objectives	Meetings	Period		
Establishment of a	► Consultation with sub-district administrative offices	May to		
watershed	► Consultation with village leaders	August 2014		
management council	► Study tour to the target suco of the JICA Project			
	► Study tour to the Rumoco watershed			
	<ul> <li>Meeting for a stakeholder analysis</li> </ul>			
	► Meeting for a situation analysis			
	▶ Meeting for future visioning			
	▶ Discussion on draft bylaws, vision, missions of the council			
Development of a	► Introduction of purposes and outline of a watershed management plan	September		
watershed	▶ Discussion on the present conditions of the Noru watershed	2014 to		
management plan	▶ Discussion on the current issues and concerns on watershed management	February		
	▶ Discussion on programs and sub-programs proposed by the plan	2015		
	▶ Discussion on the final version of the watershed management plan			
	▶ Discussion on the resolution of the council on the management plan			
Regular meeting of	1 <sup>st</sup> to 5 <sup>th</sup> regular meeting of the watershed management council	September		
the watershed		2014 to		
management council		October 2015		

Source: JICA Project Team (2015)

### Chapter 4 Results of the Activities under Output 2

### 4.1 Preparation of Training Materials and Capacity Development Plans

Prior to the conducts of training activities for the counterparts, the JICA Project Team had carried out the following activities to make the capacity development activities effective.

- a. Orientation for the counterparts from the MAF District office in Aileu
- b. Development of a ministerial administrative order on the appointment of the counterparts with operation guidelines
- c. Collection of useful existing CB-NRM practices and techniques
- d. Conduct of a training needs assessment
- e. Development of a capacity development plan for the counterparts

### 4.2 **Technical Seminars and OJT for the Counterparts**

In order to help the counterparts get a clear picture of the whole process of CB-NRM and learn its requisite procedures and techniques, the JICA Project Team had held a total of 18 technical seminars for the counterparts from May 2011 to March 2015.

- Overall concept of CB-NRM
- 2) Concept and overall process of PLUP
- 3) Procedures for PLUP in the planning phase
- Procedures for PLUP in the implementation phase 4)
- Selection of priority micro programs 5)
- Outlines of the selected micro programs 6)
- Group Organization for Implementation of Micro Program 7)
- Major techniques introduced by the micro programs
- 9) Overall concept of CB-NRM
- 10) Facilitation skills
- 11) Major techniques and skills of the micro programs
- 12) PRA (As a part of the three-day training session)
- 13) Participatory planning, monitoring and evaluation
- 14) Terms of Reference
- 15) Major techniques introduced by the micro programs (refreshing courses)
- 16) Facilitation skills (refreshing course)
- 17) Building of an animal pen
- 18) Utilization of natural resources for livelihood development

In addition to seminar-type training, the JICA Project Team had arranged the following on-the-job-training (OJT) courses for the counterparts from February 2011 to July 2015.

- Consultation meetings with leaders and communities at the target sucos in 2011
- PRA sessions carried out by the NGOs in the target sucos in 2011 and 2012 b.
- c. Participatory land use planning (PLUP) carried out by the NGOs in the target sucos in 2011and 2012
- Sessions conducted by the NGOs for selection of the priority micro programs in the d. target sucos in 2011 and 2012
- Monthly meetings in the target sucos to monior the occurrence of illegal cases and discuss solutions referring the village regulations from 2011 to 2015
- Activities carried out by the NGOs and members of the beneficiaries' groups in the f. course of the micro progrms in the target sucos from 2012 to 2015

In order for the counterparts to be the trainers/resource persons on the CB-NRM techniques, the JICA Project Team had arranged and organized the following Training of Trainers (ToT)-type training courses for the counterparts from January 2013 to November 2014.

- a. PRA at Suco Fahisoi
- b. Seminar on CB-NRM and the JICA CB-NRM Project
- c. Seminar on work plans of the micro programs
- d. Seminar on PLUP
- e. Study tour to Sucos Talitu and Manatutu
- Seminar on draft CB-NRM technical manuals
- g. Study tour to Suco Tohumeta





**Weekly Meeting** 



PRA by counterparts



Seminar on CB-NRM **Technical Manuals** 

### 4.3 Annual Feedback and Planning Seminars by Counterparts

In order to help the counterparts assess the effectiveness of the training courses held by the JICA Project Team and revise the training curricula to make them more effective, the JICA Project Team had held feedback seminars with the counterparts every year over the course of the Project. At the same time the JICA Project Team had assisted the counterparts in the preparation of annual work and budget plans for their activities in the seminars.



Feedback and Planning Seminar

As a result of the feedback and planning seminars, the counterparts had submitted annual work and budget plans for their activities from 2012 to 2016 to their superior bodies to secure operation budgets for their activities over the course of the Project.

### 4.4 Preparation of Technical Materials/References on CB-NRM

Over the course of the Project, the JICA Project Team has prepared the following technical materials to disseminate techniques relating to CB-NRM among relevant stakeholders, such as MAF extension officers, forest guards, and other field practitioners working in the agriculture and forestry sectors in Timor-Leste.

Technical Materials/References developed by the JICA Project Team

	omination interest of the control of		
Materials	Outline		
CB-NRM	The CB-NRM Information Kit is a technical reference book introducing a total of 44 existing		
Information Kit	techniques and practices useful for sustainable natural resource management and applicable to		
	local settings in Timor-Leste, especially in the Laclo and Comoro river basins.		
CB-NRM Technical	The CB-NRM Technical Manuals are		
Manuals	composed of three (3) volumes: Vol. 1: Manual Telasian CR-NEM Manual Telasian CR-NEM Not		
	Seedling Production and Tree Planting,		
	Vol. 2: Sustainable Upland Farming, and		
	Vol. 3: Income Generting/Livelihood		
	Development. The manuals introduce the		
	key approaches to effective extension		
	and a whole set of techniques/skills		
	which have been demonstrated in the course of the micro programs.		
Manual for Formation	The manual describes the process of forming a watershed management council of a		
of a Watershed	sub-watershed in the Laclo and Comoro river basins to guide field officers and planners in		
Management Council	MAF, especially NDFWM, on how to i) form a collaboration platform on a sub-watershed scale		
	in coordination with local stakeholders and ii) make the platform operational as a council for		
	watershed management.		
Quick Reference of	Quick Reference is a booklet introducing the key		
the CB-NRM	techniques extracted from the CB-NRM Technical		
Technical Manuals	Manuals so that the field officers could use and refer it in		
	the field while providing technical training/extension		
	services.		
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	Assessment Assessment Control		
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Source: JICA Project Team (2015)

Chapter 5 Results of the Activities under Output 3

### 5.1 Creation of a Taskforce in NDF

In order to facilitate the discussions with NDF on a new policy document for expansion of CB-NRM in the target river basins, NDF formed a taskforce/working team composed of 15 NDF officers and one (1) MAF advisor in July 2011 in response to the request from the JICA Project Team.

# 5.2 Discussions with NDF Taskforce/Working Team on Policy Recommendations and Operational Procedures for Promotion of CB-NRM

The JICA Project Team had held a total of 10 meeting from August 2011 to June 2015 to discuss the following topics with the NDF taskforce/working team to develop a new policy document for expansion of CB-NRM in the target river basins.

- a. Kick-off meeting
- b. Meeting on the work plan of the working team
- c. Situation and stakeholder analyses
- d. Assessment of the forest sector policy and forest management bill
- Activities of the JICA CB-NRM Project and basic concepts of CB-NRM
- f. Organizational structure and roles/responsibilities of key players in the promotion of CB-NRM
- g. Necessary interventions and arrangements for promotion of CB-NRM
- h. Draft policy recommendations for expansion of CB-NRM
- i. Draft ministerial order for promotion of CB-NRM

# 5.3 Preparation of Operation Manual for Establishment of the CB-NRM Mechanism

The JICA Project Team prepared the Operation Manual for Establishment of the CB-NRM Mechanism at the Suco Level, which described the whole process of and detailed procedures for establishment of a mechanism of CB-NRM (CB-NRM mechanism) on a village level through i) discussions with NDF and NDSDAC, ii) trial use of the first draft in the Raumoco watershed, and iii) consultation meetings with relevant stakeholders at the district level.

The Operation Manual describes i) objectives of the CB-NRM mechanism, ii) overall process of establishment of the CB-NRM mechanim at thr village level, iii) procedures/steps for participatory land use planning (PLUP), iv) procedures/steps for selection of priority agriculture and forestry extension services (micor programs), v) procedures/activities for institutionalization of village regulations, and vi) procedures/activities for implementation of micro programs.

### 5.4 Preparation of Policy Recommendations

The JICA Project Team also prepared and finalized the policy recommendations for expansion of CB-NRM together with the draft ministerial order for promotion of the CB-NRM mechanism through a series of discussions with the NDF taskforce/working team. To finalize the policy recommendations, the JICA Project Team had held a total of five (5) consultation meetings with relevant stakeholders at both central and district levels in March and April 2015. In July 2015, the JICA Project Team submitted a set of the policy recommendations with the draft ministerial order to NDFWM and MAF for approval. The recommendations compiled into the document are summarized below.

- 1) Mainstream CB-NRM as a key approach to sustainable forest management by issuing a new policy document which aims to roll out the CB-NRM mechanism in the critically important river basins.
- 2) Expand the CB-NRM mechanism in villages as planned under Forest Conservation Program in the Forest Conservation Plan.
- 3) Form a new department specifically for CB-NRM or Community-Based Forest Management (CBFM) in NDFWM.2.
- 4) Enact the Forest Management Decree along with its supporting guidelines, especially those for introduction of CFMA.
- 5) Build the capacities of key stakeholders, especially MAF/NDFWM/NDFC and NGOs, to assist communities and their leaders in introduction of the CB-NRM mechanism and preparation for CFMA in the future.
- 6) Use competent NGOs/facilitators as field facilitators to assist MAF and NDFWM/NDNC in the effective and smooth introduction of the CB-NRM mechanism in the field.
- 7) Ensure that field officers of NDFWM/NDNC/MAF can get necessary administrative and financial support for them to engage in the promotion of the CB-NRM mechanism in the field.
- 8) Integrate the process of introducing the CB-NRM mechanism or granting CFMA into the process of a village development planning.

### 5.5 Institutionalization of Policy Recommendations

In order to facilitate discussions on the recmmendations described above, especially the first recommendation, namely, "Mainstream CB-NRM as a key approach to sustainable forest management by issuing a new policy document which aims to roll out the CB-NRM mechanism in the critically important river basin," the JICA Project Team drafted "the ministerial order for promotion of the CB-NRM mechanism" in both English and Portuguese, and submitted to NDFWM/MAF. At the same time, the JICA Project Team had held several meetings with Generl Director of Forestry on this matter in June and July 2015 to obtain his support for the policy recommendations. The recommendations with the draft ministerial order were finally endorsed by General Director of Forestry to the Minister of MAF on July 15, 2015.

### 5.6 Preparation of Quick Reference of the Operation Manual

In order to make the Operation Manual handy and easy to use in the field, the JICA Project Team developed an A-3-sized leaflet, which briefly described the procedures for key processes of the establishment of the CB-NRM mechanism, namely PLUP, selection of priority agriculture and forestry extension services/micro programs, institutionalization of village regulations, and implementation of the extension services/micro programs.

### **Chapter 6** Results of the Activities under Overall Project Management

### 6.1 Meetings and Seminars with NDF/MAF

In order to help NDF and MAF staff including the counterparts for the Project have a better understanding of the Project, the JICA Project Team had held the following meetings and seminars with the staff of NDF and MAF over the course of the Project.

- a. 1st Project Introductory Seminar for NDF
- b. 2nd Project Introductory Seminar for NDF

- c. 3rd Project Introductory Seminar for NDF (3rd)
- d. Seminars on CB-NRM Pamphlet and Qucik References at MAF District Offices
- e. Launching and Hand-Over of CB-NRM Manuals

### 6.2 Procurement of the Project Equipment

In accordance with the R/D of the Project, the JICA Project Team had procured and handed over the following project equipment to MAF/NDF over the course of the Project.

**Project Equipment Procured and Handed Over to MAF/NDF** 

Equipment	Type/Model	Unit	Date of hand-over
Motorbikes	Honda Megapro 150	4	August 2, 2011
Photocopy machine	Xerox DC 1085	1	August 2, 2011
Desktop Computer	HP pro 3000 Desktop	1	August 2, 2011
	HP LE1851W 18.5" Monitor		
Software	Microsoft Office Home and Business 2010	1	August 2, 2011
Anti-virus Software	Kaspersky AntiVirus 2011	1	August 2, 2011
Projector	LCD Projector SANYO PDG-DSU20	1	August 2, 2011
Generator	Honda SGX 2500	1	August 2, 2011
GPS	Garmin E-treck	4	August 2, 2011
Project Vehicles	Toyota Hi Lux 3000	2	June 14, 2012

Source: JICA Project Team (2012)

### 6.3 Joint Coordination Committee (JCC) Meetings

Over the course of the Project, the JICA and MAF Project Teams had a total of seven (7) Joint Coordination Committee meetings.

### 6.4 Public Relations

In order to make a wide range of stakeholders aware of the Project and its activities, the JICA Project Team had prepared seven (7) issues of the project newsletters as of the end of March 2015. In addition to the issuance of the project newsletter, the JICA Project Team had arranged the following events at the target sucos in collaboration with the partner NGOs to raise awareness of the project activities among high officials of MAF.

- a. Harvesting ceremony at Suco Fadabloco in 2013
- b. Harvesting ceremony at Suco Hautoho in 2015

Moreover, the JICA Project Team and the partner NGOs had participated in the following exhibitions/events organized by MAF as well as MAF development partners to introduce the results and process of the CB-NRM mechanism.

- a. MAF's Exhibition in 2014
- b. CBD event organized by UNDP in 2014
- c. Exhibition organized by Global Climate Change Adaptation (GCCA) in 2014

### 6.5 Arrangement for the Training Courses in Japan

A total of nine (9) counterparts had taken part in four (4) training courses arranged and organized in Japan from 2011 to 2014. The JICA Project Team arranged for the training courses coordinating with the relevant organizations in Japan prior to the courses. A member of the JICA Project Team also accompanied the counterparts during the training courses in Japan.

### 6.6 Coordination with Other Organizations

As part of the coordination with other development partners, the JICA Project Team had undertaken the following activities with the partner NGOs over the course of the Project.

- a. Arrangement of an exchange visit of a group of members of the Raumoco watershed management council to Sucos Fadabloco and Hautoho in 2012
- b. Provision of technical assistance to Seed of Life and local NGOs in the conduct of PLUP in two (2) sucos in the Raumoco watershed in 2014
- c. Sharing of information with and/or arrangement of field visits of relevant MAF development partners and their supporting projects, such as, i) meetings with their experts, ii) support for and arrangement of their field visits to the target sucos, and iii) sharing of project documents, especially the policy recommendations with the draft ministerial order, and the CB-NRM operation and technical manuals, and other public relations materials.



PLUP in Raumoco



Field visit by WorldBank

### 6.7 Project Evaluation

The Project has been evaluated jointly by JICA and MAF at the midpoint of the Project (March 2013) and six (6) months before the end of the Project (June/July 2015) in accordance of the Record of Discussions (R/D) agreed upon by both governments.

### 6.8 Project Reports and Other Deliverables

The JICA Project Team had developed and submitted the following project reports/deliverables to NDF/MAF over the course of the Project.

Reports and Deliverables submitted by the JICA Project Team

	Reports and Deliverables submitted by the JICA Project Team
Type of document	Title of doccument
Project Report	Inception report in English
	Progress Report (1) (Tetun and English)
	Progress Report (2) (Tetun and English)
	Progress Report (3) (Tetun and English)
	Progress Report (4) (Tetun and English)
	Annual Completion Report (2011/2012) (Tetun and English)
	Annual Completion Report (2012/2013) (Tetun and English)
	Annual Completion Report (2013/2014) (Tetun and English)
	Annual Completion Report (2014/2015) (Tetun and English)
	By-monthly Progress Reports from January 2011 to February 2015 (Tetun and English)
Manuals	Operation Manual for Establishment of the CB-NRM Mechnism at the Suco Level (Tetun and
	English)
	CB-NRM Technical Manuals (Vo1. 1 ~ Vol. 3) (Tetun and English)
	Manual for Formation of a Watershed Management Council (Tetun and English)
	Quick reference of the Operation Manual (Tetun and English)
	Quick reference of the Technical Manuals (Tetun and English)
Technical Reference	CB-NRM Information Kit (Tetun and English)
Policy Documents	Policy Recommendations for Expansion of CB-NRM (Tetun and English)
	Draft Miniterial Order for Promotion of the CB-NRM Mechnism (Portuguese and English)
Public Relations	CB-NRM Pamphlet (Tetun and English)
	Project Nesletters (Issue No. 1~No.7)
Others	Village and Resurce Profilles of the Target Villages (Tetun and English)
	Reports of the Feedback and Planning Seminars held from 2012 to 2015 (Tetun and English)
	Reports of the 3 <sup>rd</sup> ~9 <sup>th</sup> meetings with the NDF Taskforce/working team (Tetun and English)

Source: JICA Project Team (2015)

# Chapter 7 Accomplishments of the Project and Summary of the Results of the Terminal Evaluation of the Project

### 7.1 Assessment of the Level of Achievements of the Project

The JICA and MAF Project Teams assessed the level of achievements of the Projects by checking whether or not the indicators given to the project purpose and outputs in the latest PDM were attained. Based on the assessment made, the JICA and MAF Project Teams judged that all the indicators had been satisfied as of the end of November 2015.

### 7.2 Results of the Terminal Evaluation

The terminal evaluation of the Project was jointly conducted by MAF and JICA in June and July 2015. The results of the terminal evaluation based on the five evaluation criteria are summarized below.

Results of the Evaluation based on Five Evaluation Criteria

Criteria	Evaluation
Relevance	High
Effectiveness	High
Efficiency	Moderate
Impact	Some positive impacts are expected to be observed.
Sustainability	Sustainability is yet to be ensured sufficiently although it is expected on some aspects.

Source: Report of the Joint Terminal Evaluation on the Project for Community Based Sustainable Natural Resource Management in the Democratic Republic of Timor-Leste (2015)

### Chapter 8 Lessons Learned

## 8.1 Lessons Learned from Overall Project Management and Project Framework

The joint terminal evaluation team organized also identified and extracted lessons learned from reviews of overall management and framework of the Project as shown below.

- a. Utilization of NGOs for disseminating impacts of the Project
- b. Utilization of NGOs in countries under developing capacity of government institution
- c. Importance of preliminary studies
- d. Selection of NGOs that have financial capacity
- e. Establishment of a platform for watershed management including non-target villages of the project
- f. Enhancement of efficiency of the Project activities by making use of traditional customs and practices
- g. Effectiveness of utilization of local material
- h. Existence of staffs of facilitating agencies in remote target villages

### 8.2 Lessons Learned from the Project Activities

On the other hand, the JICA Project Team extracted the following lessons through implementation of the Project.

Lessons learned from the activities under Output 1

- a. Allocation of adequate time
- b. Removal of hindrances
- c. Deployment of local staff

- d. Involvement of a wide range of communities
- e. Securing of opportunities for training among communities
- f. Utilization of the traditional collective working system for agricultural extension
- g. Introduction of a process approach

### Lessons learned from the activities under Output 2

- a. Set-up of the realistic targets
- b. Security of necessary support
- c. Importance of showing actual results in the field
- d. Sharing of responsibility with government officials in a phased manner

### Lessons learned from the activities under Output 3

- a. Involvement of NDF officers in the process and continuous discussions
- b. Institutional development based on field experiences

### Chapter 9 Recommendations

### 9.1 Recommendations given by the Terminal Evaluation Team

As described in Chapter 7, the following recommendations made by the joint terminal evaluation teams to ensure the sustainability of the project effectiveness as well as achieve the overall goal of the Project.

- a. Realization of policy recommendations
- b. Monitoring of CB-NRM practices in the target sucos
- c. Monitoring of the watershed management council of the Noru sub-watershed
- d. Utilization of Japan's Grant Aid Project "Forest Preservation Programme"
- e. Improvement of the CB-NRM mechanism
- f. Support of the Noru sub-watershed council
- g. Awareness raising of local residents in the target area

### 9.2 Recommendations given by the JICA Project Team

Besides, the JICA Project Team further proposes the following actions and interventions that MAF should take into account for achievement of the overall goal of the Project as well as expansion of CB-NRM in an effective manner.

- a. Development of key players in expansion of CB-NRM
- b. Finalization and approval of the new ministerial order for promotion of the CB-NRM mechanism
- c. Encouragement of MAF development partners to integrate the CB-NRM mechanism into their programs/projects.
- d. Utilization of the Project materials

### Chapter 1 Introduction

### 1.1 Background

Between 1972 and 1999, the Democratic Republic of Timor-Leste (Timor-Leste) had reduced its forest cover at a rate of 1.1 % per annum or by 24 % in total. The assessment made by FAO in 2005<sup>1</sup> revealed that forests in the country covered only about 54 % (or 0.8 million ha) of the total land area (1.5 million ha). Deforestation has further caused soil erosion, landslides and flash floods, which eventually affected the lives of people residing within river basins. But ironically, deforestation has been mainly caused by economic activities done by people residing in the same river basins, such as i) forest fires, ii) tree cutting for firewood collection, iii) shifting cultivation, and iv) uncontrolled illegal logging. Furthermore, what made this problem difficult to solve was that the said activities were mainly undertaken by poor upland farmers who subsist on forest and farm products collected/produced by such activities.

In order to promote sustainable forest management in the country, the Government of Timor-Leste (GoTL) developed and adopted the Forest Policy in 2008, which aimed at achieving sustainable management of forest resources in the country. It has been however difficult for MAF and NDF to apply the necessary measures against issues that cause forest degradation due to the undeveloped legal system on forest management, insufficient institutional set-ups, and lack of human resources in MAF and NDF quantitatively and qualitatively. Given the fact that the financial situation of the country has improved thanks to the continuous revenue from the oil production in Timor Sea, the country has had an increased need for developing the capability of MAF/NDF and establishing a framework for forest management in the country using it s own budget in a proper and effective manner.

Under such circumstances, the GoTL and the Japan International Cooperation Agency (JICA) agreed on the conduct of a development study named "The Study on Community-Based Integrated Watershed Management in Laclo and Comoro River Basins" in 2004. The study was aimed at the contribution to sustainable management and protection of forest resources in the Laclo and Comoro river basins, which were two (2) of the 10 critically degraded river basins in the country. In accordance with the agreement, JICA had carried out the development study with the implementation of pilot projects focusing on sustainable land use management, tree planting, sloping agricultural, and livelihood development in the target river basins, from November 2005 to March 2010. As a result of the study, a community-based integrated watershed management plan for the said river basins and watershed management planning guidelines were developed and submitted to the GoTL.

Having confirmed the effectiveness of the activities (sub-programs) proposed in the community-based integrated watershed management plan through the implementation of the pilot projects, the GoTL further requested JICA to assist itself in the establishment of an implementation mechanism and development of the capabilities of the government officials for community-based natural resource management. Both governments agreed to jointly implement a technical cooperation project named "The Project for Community-Based Sustainable Natural Resource Management" (hereinafter referred to as "the Project") as described in the Record of Discussions (R/D) concluded in August 2010.

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<sup>&</sup>lt;sup>1</sup> Forest Resource Assessment and the Sate of the World's Forest (FAO), 2005

The Project started its activities with the consent of NDF for the overall work plan of the Project in January 2011, and has carried out its work plan since then. This is the Project Completion Report describing all the activities done and results made by the Project from the beginning of January 2011 to the middle of December 2015.

### 1.2 Outline of the Project

### (1) Objectives of the Project

The project purpose (or the main objective of the Project) agreed upon by MAF and JICA is that "an operational mechanism<sup>2</sup> of CB-NRM at suco level is developed." The project purpose is to be supported by the following three (3) outputs:

- Output 1: Land use plans are agreed upon and implemented by local residents in accordance with relevant suco regulations;
- Capacities of the staff of the implementing agency and relevant Output 2: stakeholders<sup>3</sup> are enhanced to support CB-NRM; and
- Output 3: Effective processes with roles of stakeholders to support CB-NRM are identified.

On the other hand, the overall goal that the Project is expected to achieve in the post-project period is that "CB-NRM is practiced in the target area." The latest project design matrix (PDM) of the Project is presented in **Table 1**.

### (2) Targets of the Project

Overall, the Project targets the Laclo and Comoro river basins; however each project output focuses its activities on the different targets as shown below.

- The activities for Output 1 are to be carried out in six (6) sucos in the Noru and Bemos sub-watersheds in the Laclo and Comoro river basins, respectively, or three (3) sucos from the Noru sub-watershed and another three (3) from the Bemos sub-watershed, as shown in **Figure 1**.
- b. The capacity development activities for Output 2 are to be carried out for the staff of MAF, especially those assigned as the counterparts for the Project.
- The policy recommendations to be drafted under Output 3 are to be basically applicable to the Laclo and Comoro river basins, although it might be useful for other areas in the country when feasible.

### **Project Period** (3)

Originally, the Project was scheduled to be implemented over 58 months from January 2011 to October 2015, but the project period was extended for about two (2) months to develop the publicity materials as recommended by the JICA and MAF joint evaluation team in the terminal evaluation of the Project in July 2015.

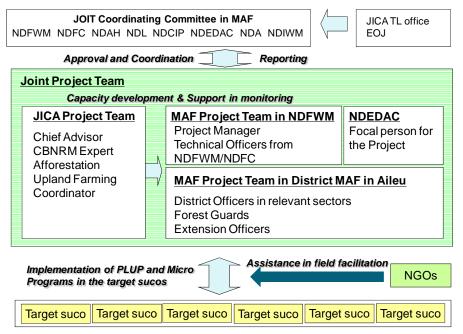
### (4) Institutional Framework for Implementation of the Project

As described above, the Project is to be implemented jointly by JICA and MAF. From MAF side, the National Directorate of Forestry (NDF), which split into the National Directorate of Forest and Watershed Management (NDFWM) and the National Directorate

Operational mechanism is embodied in the endorsed and practiced guidelines/manuals on the process with riles of stakeholders to support CB-NRM, technical manuals on CB-NRM, and the policy recommendations.

Personnel of relevant national directorates of Ministry of Agriculture and Fisheries (MAF), district directorates of MAF in the target area and other facilitating agencies, such as NGOs working in the target area.

of Forest Conservation<sup>4</sup> in 2014, was responsible for implementation of the Project as the implementing agency among the national directorates of MAF. NDF was responsible for administrative and financial arrangements necessary for operations of the Project, especially the activities to be carried out by the MAF side, such as appointment of counterparts for the Project, allocation of budget and provision of facilities/equipment for activities of the counterparts, and coordination with relevant organizations including other national directorates of MAF. From October 2014, NDFWM has taken charge and been responsible for the implementation of the Project, as it holds the Department of Reforestation and Community and Urban Forestry and the Department of Soil and Water Conservation and Watershed Management. On the other hand, the JICA Project Team entrusted by JICA with the implementation of the Project has borne the responsibility to carry out the project activities relevant to the achievement of the project purpose as well as outputs. The Team also has had an obligation to make necessary arrangements for smooth operations of the project activities, i.e., employment of field facilitators for activities for Output 1, organization of seminars and meetings, procurement of project equipment, and provision of technical assistance to NDF/NDFWM as well as field facilitators. The organizational structure for implementation of the Project is illustrated below.



Organizational Structure for Implementation of the Project

### 1.3 Composition of this Report

This report or the Project Completion Report is composed of nine (9) chapters. This chapter, Chapter 1, introduces the background of the Project, followed by Chapter 2 which gives overviews of the Project. All the results and accomplishments made by the Project are described from Chapters 3 to 6. Chapter 7 summarizes the results of the terminal evaluation of the Project, while Chapter 8 highlights lesson learned including issues and concerns that the Project has faced in the course of the Project. The last chapter, Chapter 9 describes recommendations for the achievement of the overall goal of the project in a few years after the end of the Project.

<sup>&</sup>lt;sup>4</sup> NDF was divided into two (2) national directorates, namely National Directorate of Forest and Watershed Management and National Directorate of Nature Conservation, in October 2014, when the Ministry of Agriculture and Fisheries was restructured.

# PROJECT COMPLETION REPORT FOR COMMUNITY-BASED SUSTAINABLE NATURAL RESOURCE MANAGEMENT IN THE DEMOCRATIC REPUBLIC OF TIMOR-LESTE

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### **List of Abbreviations**

ALGIS The Agriculture and Land Use Geographic Information System

APO Annual Plan of Operation

AusAID Australian Agency for International Development

CBD Convention on Biological Diversity

CB-NRM Community Based Natural Resources Management
CBSE-MP Community-Based Seedling Extension Micro Program

CFMA Community Forest Management Agreement COMES Portuguese agency for international cooperation

CP Counterpart(s)

DFAT Department of Foreign Affairs and Trade

DFO District Forest Officer
EOJ Embassy of Japan
EU European Union
FA Facilitating Agencies

FAO Food and Agriculture Organization

FFS Farmers Field School

GCCA Global Climate Change Adaptation

GIZ Deutsche Gesellschaft für Internationale Zusammenarbeit (Germany agency for

international cooperation)

GoTL Government of Timor-Leste

HH Household HQ Head quarter

IG/LD-MP Income Generating/ Livelihood Development Micro Program

JCC Joint Coordination Committee

JE JICA Expert(s)

JFY Japanese Financial Year

JICA Japan International Cooperation Agency
MAF Ministry of Agriculture and Fishery
NDA National Directorate of Agriculture

NDAH National Directorate of Agriculture and Horticulture NDCIP National Directorate of Coffee and Industrial Plantation

NDEDAC National Directorate of Extension Development for Agricultural Communities

NDF National Directorate of Forestry

NDFC National Directorate of Forest Conservation

NDFWM National Directorate of Forest and Watershed Management NDIWM National Directorate of Irrigation and water management

NDL National Directorate of Livestock

NDSDAC National Directorate of Support and Development of Agriculture and Communities

NGO Non-Governmental Organization NTFP Non-Timber Forest Product ODA Official Development Assistance

OJT On the Job Training
PDM Project Design Matrix
PLUP Participatory Land Use Plan

PO Plan of Operations

PRA Participatory Rural Appraisal
R/D Record of Discussions
RECOFTC Center for People and Forests
SALT Sloping Agricultural Land Technique

SPTPP-MP Seedlings Production and Tree Plantation Promotion Micro Program

SR Survival rate

SUB/PF-MP Sustainable Utilization of Backyard/Permanent Farm Micro Program

SUFP-MP Sustainable Upland Farming Promotion Micro Program

SV Supervisor

TFY Timorese Financial Year

TL Timor-Leste

TNA Training Needs Assessment

ToT Training of Trainers

UNDP United Nations Development Programme

USAID United States Agency for International Development.

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### Chapter 1 Introduction

### 1.1 Background

Between 1972 and 1999, the Democratic Republic of Timor-Leste (Timor-Leste) had reduced its forest cover at a rate of 1.1 % per annum or by 24 % in total. The assessment made by FAO in 2005<sup>1</sup> revealed that forests in the country covered only about 54 % (or 0.8 million ha) of the total land area (1.5 million ha). Deforestation has further caused soil erosion, landslides and flash floods, which eventually affected the lives of people residing within river basins. But ironically, deforestation has been mainly caused by economic activities done by people residing in the same river basins, such as i) forest fires, ii) tree cutting for firewood collection, iii) shifting cultivation, and iv) uncontrolled illegal logging. Furthermore, what made this problem difficult to solve was that the said activities were mainly undertaken by poor upland farmers who subsist on forest and farm products collected/produced by such activities.

In order to promote sustainable forest management in the country, the Government of Timor-Leste (GoTL) developed and adopted the Forest Policy in 2008, which aimed at achieving sustainable management of forest resources in the country. It has been however difficult for MAF and NDF to apply the necessary measures against issues that cause forest degradation due to the undeveloped legal system on forest management, insufficient institutional set-ups, and lack of human resources in MAF and NDF quantitatively and qualitatively. Given the fact that the financial situation of the country has improved thanks to the continuous revenue from the oil production in Timor Sea, the country has had an increased need for developing the capability of MAF/NDF and establishing a framework for forest management in the country using it s own budget in a proper and effective manner.

Under such circumstances, the GoTL and the Japan International Cooperation Agency (JICA) agreed on the conduct of a development study named "The Study on Community-Based Integrated Watershed Management in Laclo and Comoro River Basins" in 2004. The study was aimed at the contribution to sustainable management and protection of forest resources in the Laclo and Comoro river basins, which were two (2) of the 10 critically degraded river basins in the country. In accordance with the agreement, JICA had carried out the development study with the implementation of pilot projects focusing on sustainable land use management, tree planting, sloping agricultural, and livelihood development in the target river basins, from November 2005 to March 2010. As a result of the study, a community-based integrated watershed management plan for the said river basins and watershed management planning guidelines were developed and submitted to the GoTL.

Having confirmed the effectiveness of the activities (sub-programs) proposed in the community-based integrated watershed management plan through the implementation of the pilot projects, the GoTL further requested JICA to assist itself in the establishment of an implementation mechanism and development of the capabilities of the government officials for community-based natural resource management. Both governments agreed to jointly implement a technical cooperation project named "The Project for Community-Based Sustainable Natural Resource Management" (hereinafter referred to as "the Project") as described in the Record of Discussions (R/D) concluded in August 2010.

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<sup>&</sup>lt;sup>1</sup> Forest Resource Assessment and the Sate of the World's Forest (FAO), 2005

The Project started its activities with the consent of NDF for the overall work plan of the Project in January 2011, and has carried out its work plan since then. This is the Project Completion Report describing all the activities done and results made by the Project from the beginning of January 2011 to the middle of December 2015.

#### 1.2 Outline of the Project

#### (1) Objectives of the Project

The project purpose (or the main objective of the Project) agreed upon by MAF and JICA is that "an operational mechanism<sup>2</sup> of CB-NRM at suco level is developed." The project purpose is to be supported by the following three (3) outputs:

- Output 1: Land use plans are agreed upon and implemented by local residents in accordance with relevant suco regulations;
- Capacities of the staff of the implementing agency and relevant Output 2: stakeholders<sup>3</sup> are enhanced to support CB-NRM; and
- Output 3: Effective processes with roles of stakeholders to support CB-NRM are identified.

On the other hand, the overall goal that the Project is expected to achieve in the post-project period is that "CB-NRM is practiced in the target area." The latest project design matrix (PDM) of the Project is presented in **Table 1**.

#### (2) Targets of the Project

Overall, the Project targets the Laclo and Comoro river basins; however each project output focuses its activities on the different targets as shown below.

- The activities for Output 1 are to be carried out in six (6) sucos in the Noru and Bemos sub-watersheds in the Laclo and Comoro river basins, respectively, or three (3) sucos from the Noru sub-watershed and another three (3) from the Bemos sub-watershed, as shown in **Figure 1**.
- b. The capacity development activities for Output 2 are to be carried out for the staff of MAF, especially those assigned as the counterparts for the Project.
- The policy recommendations to be drafted under Output 3 are to be basically applicable to the Laclo and Comoro river basins, although it might be useful for other areas in the country when feasible.

#### **Project Period** (3)

Originally, the Project was scheduled to be implemented over 58 months from January 2011 to October 2015, but the project period was extended for about two (2) months to develop the publicity materials as recommended by the JICA and MAF joint evaluation team in the terminal evaluation of the Project in July 2015.

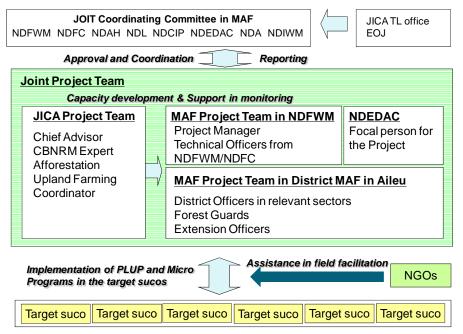
#### (4) Institutional Framework for Implementation of the Project

As described above, the Project is to be implemented jointly by JICA and MAF. From MAF side, the National Directorate of Forestry (NDF), which split into the National Directorate of Forest and Watershed Management (NDFWM) and the National Directorate

Operational mechanism is embodied in the endorsed and practiced guidelines/manuals on the process with riles of stakeholders to support CB-NRM, technical manuals on CB-NRM, and the policy recommendations.

Personnel of relevant national directorates of Ministry of Agriculture and Fisheries (MAF), district directorates of MAF in the target area and other facilitating agencies, such as NGOs working in the target area.

of Forest Conservation<sup>4</sup> in 2014, was responsible for implementation of the Project as the implementing agency among the national directorates of MAF. NDF was responsible for administrative and financial arrangements necessary for operations of the Project, especially the activities to be carried out by the MAF side, such as appointment of counterparts for the Project, allocation of budget and provision of facilities/equipment for activities of the counterparts, and coordination with relevant organizations including other national directorates of MAF. From October 2014, NDFWM has taken charge and been responsible for the implementation of the Project, as it holds the Department of Reforestation and Community and Urban Forestry and the Department of Soil and Water Conservation and Watershed Management. On the other hand, the JICA Project Team entrusted by JICA with the implementation of the Project has borne the responsibility to carry out the project activities relevant to the achievement of the project purpose as well as outputs. The Team also has had an obligation to make necessary arrangements for smooth operations of the project activities, i.e., employment of field facilitators for activities for Output 1, organization of seminars and meetings, procurement of project equipment, and provision of technical assistance to NDF/NDFWM as well as field facilitators. The organizational structure for implementation of the Project is illustrated below.



Organizational Structure for Implementation of the Project

## 1.3 Composition of this Report

This report or the Project Completion Report is composed of nine (9) chapters. This chapter, Chapter 1, introduces the background of the Project, followed by Chapter 2 which gives overviews of the Project. All the results and accomplishments made by the Project are described from Chapters 3 to 6. Chapter 7 summarizes the results of the terminal evaluation of the Project, while Chapter 8 highlights lesson learned including issues and concerns that the Project has faced in the course of the Project. The last chapter, Chapter 9 describes recommendations for the achievement of the overall goal of the project in a few years after the end of the Project.

<sup>&</sup>lt;sup>4</sup> NDF was divided into two (2) national directorates, namely National Directorate of Forest and Watershed Management and National Directorate of Nature Conservation, in October 2014, when the Ministry of Agriculture and Fisheries was restructured.

#### **Chapter 2** Overview of the Project

#### 2.1 Overall Work Plan

The Project has been implemented in accrdance with the plan of operations (PO) of the Project, whose work plan agreed upon and aproved by the Joint Coordination Committee (JCC) organized by JICA and MAF. The latest plan of operations (PO) of the Project for the entire period is shown in **Table 2**, and summarized below.

						f the		VIS									
		TFY				TFY2			TFY			T		014		FY2015	
Activities	10		JFY2011							2013	_	JFY2014					
														Q3 Q4			
Output 1: Land use plans are agreed upon and	impl	eme	nted	by l	ocal	resid	ents	n acc	corda	nce	with r	elev	vant	suco r	egul	ations.	Lucan ame
1-1 Organize initial consultative meetings in the																	MAF CP (NDF
Project sites.																	and District), FA, JE
						$\vdash$	+	+	+		$\vdash$	+	$\dashv$	+	+		MAF CP (NDF
1-2 Conduct participatory village profiling in the																	and District), FA
Project sites.													- 1				JE
							_										MAF CP (NDF
1-3 Conduct participatory land use planning with							į					ı	į				and District), FA
formulation of relevant suco regulations.							į					1	ı				JE
1-4 Facilitate local residents in the Project sites to																	MAF CP (NDF,
implement the micro-projects prioritized in line with													ı				District and other
the land use plans.												1					NDs), FA, JE
the land use plans.	<u> </u>	-	_				-	_				-	-				
1-5 Monitor and evaluate CB-NRM in the Project												1					MAF CP (NDF,
sites.												i					District and other
	<u> </u>	_	_											_			NDs), FA, JE
1-6 Organize project information sharing seminars													- 1				MAF CP (NDF,
and/or workshops for information sharing among													-				District and other
the target sucos and technical dissemintion to local													-				NDs), FA, JE
residents in the neighboring sucos.		-				$\vdash$	_	+	-				4	_	-		
1-7 Establish the watershed management council of																	MAF CP (NDF,
the Noru watershed as a platform where the																	District and other
relevant sucos can work on CB-NRM for													- 1				NDs), FA, JE
sustainable watershed management.  Output 2: Capacities of the staff of the Implement	ontin	0.00	0 2007	ond	wo le	wont	atolica	hold	0.000.00		hono	d +	0.61	nnout i	nD N	IDM	1
2-1 Gather and compile useful CB-NRM practices	enun	ig ag	ency	and	reit	evant	Stake	lioiu	ers a	le ei	mance	a v	o su	pport	J <b>D</b> -1	IKIVI.	1
and technologies applicable to the situation of the																	MAF CP (NDF
target area.																	and District), JE
2-2 Plan and conduct the training on CB-NRM for												1					MAF CP (NDF
the technical staff of the Implementing agency and																	and District), FA,
relevant stakeholders.																	JE
																	MAF CP (NDF
2-3 Organize feedback seminars on CB-NRM.		1											- 1				and District), JE
																	MAF CP (NDF
2-4 Organize planning seminars on CB-NRM.																	and District), JE
250																	MAF CP (NDF
2-5 Prepare technical manuals on CB-NRM.												1					and District), JE
Output 3: Effective processes with roles of sta	keh	oldei	rs to	sup	port	CB-N	RM	are i	denti	fied.							
3-1 Prepare an operational manual on the processes	1																
to support CB-NRM with roles of stakeholders,																	
relecting the results of monitoring and evaluation of																	NDF Staff, JE
CB-NRM, including the micro projects implemented	l																
in the project sites.	<u> </u>																ļ
3-2 Develop draft policy recommendations on CB-																	NDF Staff, JE
NRM.																	TIDI SMII, JE
3-3 Organize a workshop to present the								1									MAF CP (NDF )
recommendations to relevant institutions and																	JE
stakeholders.		1							1				- 1				PE .

MAF: Ministry of Agriculture and Fisheries

NDF: National Directorate for Forestry

Other NDs: Other relevant National Directorates of MAF

District:MAF District Office

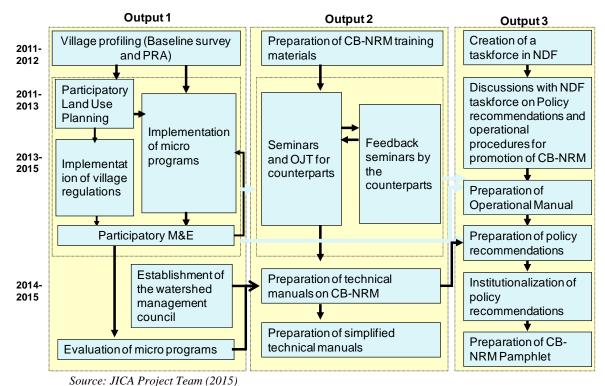
CP: Counterpart personnel FA: Facilitating Agencies

CA: Chief Advisor, Co-CA: Co-Chief Advisor, UFT/LD Ex Upland Farming Technologies/Livelihood Development Expert, A/R Ex Afforestation/Reforestation Expert, PC: Project Coodinator, Local PC: Local Project Coordinator

Source: JICA Project Teams (2014)

## 2.2 Workflow of the Project

The overall workflow based on the latest PO is shown below.



Overall Workflow of the Project

As the activities of the respective outputs are interrrelated with each other, many of the have been carried out simultaneously.

#### 2.3 Changes in the Project Design

There have been some changes in the project design to cope with changes in the situations and ensure the achievement of the project purpose over the course of the Project. The first major revision was made in March 2012 when the Project had the mid-term evaluation. It was further revised in May/June 2014 when JICA and MAF decided to establish a watershed management council of the Noru watershed. The following table shows the major changes made during the project period.

Narrative summary	Original PDM	Mar/Apr 2012	May/Jun 2014
Project Purpose	An operational mechanism of CB-NRM at suco level is developed.	Same as left.	Same as left.
Project Outputs Output 1	Land use plans are agreed upon and implemented by local residents in accordance with relevant suco regulations.	Same as left.	Same as left.
Output 2	Capacities of the staff of the Implementing agency and relevant stakeholders (*3) are enhanced to support CB-NRM.	The staff of the implementing agency and relevant stakeholders (*3) are trained to support CB-NRM.	Same as left.
Output 3	Effective processes with roles of stakeholders to support CB-NRM are identified.	Same as left.	Same as left.
Activities Under Output 1	Organize initial meetings in the Project sites.     Conduct participatory village profiling in the Project sites.     Conduct participatory land use planning with formulation of relevant suco regulations     Facilitate local residents in	1-1~1.5 Same as left 1-6 Organize field seminars and/or workshops for information sharing among the target sucos and technical dissemination to local residents in the neighboring sucos	1-1~1.6 Same as left  1.7 Establish the watershed management council of the Noru watershed as a platform where the relevant sucos can work on CB-NRM for sustainable watershed management.

Narrative summary	Original PDM	Mar/Apr 2012	May/Jun 2014
	the Project sites to implement the micro-projects (*4) prioritized in line with the land use plans.  1-5 Monitor and evaluate CB-NRM in the Project sites.  1-6 Organize field seminars and/or workshops for technical dissemination to local residents in the neighboring sucos		
Under Output 2	2-1 Gather and compile useful CB-NRM practices and technologies applicable to the situation of the target area.  2-2 Plan and conduct the training on CB-NRM for the technical staff of the Implementing agency and relevant stakeholders.  2-3 Organize feedback seminars on CB-NRM.  2-4 Prepare technical manuals on CB-NRM.	2-1&2-2 Same as left  2-3 Organize planning  seminars on CB-NRM  2-4 Organize feedback seminars on CB-NRM.  2-5 Prepare technical manuals on CB-NRM.  (2-3 & 2-4 in the original PDM were changed to 2-4 & 2-5 in the revised one.)	2-1~2-5 Same as left.
Under Output 3	3-1 Prepare a draft policy document on CB-NRM, implementation procedures for CB-NRM with roles of stakeholders, and reference book/guidebook for introduction of CB-NRM based on the evaluation of micro projects implemented in the Project sites and discussions with NDF as well as other relevant stakeholders.  3-2 Organize planning seminars on CB-NRM.  3-3 Develop a draft policy recommendation on CB-NRM.  3-4 Organize a workshop to present the recommendation to relevant institutions and stakeholders.	3-1 Prepare an operational manual on the processes to support CB-NRM with roles of stakeholders, reflecting the results of monitoring and evaluation of CB-NRM, including the micro-projects implemented in the Project sites.  3-2 Develop draft policy recommendations  3-3 Organize a workshop to present the recommendations to relevant institutions and stakeholders.  (3-2 in the original PDM was omitted from the activities.)	3-1~3-3 Same as left.

## 2.4 Progress of the Works

The JICA and MAF Project Teams have monitored the progress of the Project over the ourse of the Project by using the latest PO. **Table 3** shows the comparison between the work plan and accomplishments made by the Project Team. As indicated in **Table 3**, the Project has been generally implemented according to the schedule.

## Chapter 3 Results of the Activities under Output 1

#### 3.1 Village Profiling

#### 3.1.1 Selection of Target Sucos

In January 2011, the JICA and MAF Project Teams evaluated the following 12 potential sucos located in the Noru and Bemos sub-watersheds to select the project target sucs for the activities under Output 1.

Potential Sucos located in the Priority Sub-watersheds

Target sub-watershed (River basin)	Villages located in the sub-watersheds
Noru Sub-watershed (Laclo river basin)	Faturasa, Fadabloco, Fahisoi (Liquidoe), Fahisoi, Hautoho, Maumeta
Bemos Sub-watershed (Comoro river basin)	Dare, Cotolau, Talitu, Tohumeta, Madabeno

Source: JICA Project Team (2011)

The following criteria were employed to evaluate the potentil sucos with the aims of i) maximizing the project effectiveness, ii) avoiding any difficulties in the project implementation, iii) ensuring the project sustainability, and iv) maintaining the efficiency of the micro programs.

- a. Geographical contiguity of the sucos
- b. Manageability of micro programs
- c. Acceptability of the Project by the communities
- d. Accessibility to the sucos

As a result, the following six (6) sucos were selected as the target villages. **Appendix-3.1** stored in the CD attached to this report gives more details of the result of the evaluation.

#### Noru Sub-watershed

- a. Suco Faturasa
- b. Suco Fadabloco
- c. Suco Hautoho

#### Bemos Sub-watershed

- a. Suco Tohumeta
- b. Suco Madabeno
- c. Suco Talitu

# FAHISOL FATURASA Mandahe Sub-Watershed Mandahe Sub-Watershed

#### 3.1.2 Consultation with Local

#### Communities in the Target Sucos about the Project

Prior to the field activities in the target sucos, the JICA and MAF Project Teams jointly held the consultation meetings at the target sucos. Local communities in the sucos were sounded out about their willingness to participate in the Project in the meetings held on the following dates.

February 1, 2011	Suco Fadabloco and Faturasa
February 2, 2011	Suco Talitu and Tohumeta
February 7, 2011	Suco Madabeno
February 10, 2011	Suco Faturasa

In general, local communities in the target sucos accepted the ideas of the Project and showed their willingness to participate in the project activities. Some highlights in the meetings are summarized below.

- ➤ Chefs de Suco of Suco Fababloco and Hautoho stated that the micro project would be good opportunity for their villages to enhance the communities' capacities to improve their livelihoods.
- In Suco Talitu, the current and former Chefs de Suco appreciated the possible interventions by the Project, namely, i) introduction of the village regulations (or Tara Bandu regulations) and ii) provision of training courses on farming techniques, such as those of rehabilitation of aged coffee plantations and sustainable upland farming.
- Some villages in Suco Tohumeta stated that it would be difficult for them to participate in the micro programs without any payment although they understood that the micro programs would be effective in developing their capacities based on the experiences of the pilot projects implemented by the former JICA study. The JICA and MAF Project Teams clarified and stressed that the micro programs would not include any payment scheme but help the livelihoods of local communities in the sucos directly and/or indirectly like as the pilot projects implemented by the former JICA Study.
- ➤ Villagers in Suco Madabeno showed their willingness to receive the support from the Project even without any payment, and if anything, they expressed rather strong interest in having training/technical assistance in planting seedlings, preventing landslides, and strengthening the village regulations.
- The participants in Suco Faturasa stated that they were keen to participate in the micro programs as they appreciated the support given by the former JICA Study and the NGO for development and implementation of the village regulations. Accordingly, there has been no forest fire, illegal cutting or any other illegal activity in the sucos since the village regulations were in place in 2008.

#### 3.1.3 Village Profiling Survey (Baseline Survey and PRA) in the Target Sucos

The two NGOs, USC Canada-Timor Leste, which was renamed RAEBIA Timor-Leste in 2014, and Haralare Foundation, hired by the JICA Project Team conducted the village profiling survey composed of the baseline survey and PRA in the target sucos in 2011.

The baseline survey was aimed at the collection of the socio-economic baseline data of the target sucos, while the focus of PRA was put on the collection of data and information of natural resource management and potential of income generation in the sucos. The following tables show the data and information that both surveys aimed to collect in the target villages.

#### Data and Information collected through the Baseline Survey (Household Interview Survey)

#### General information of household

- · Information of family members on name, age, sex, educational background, occupation
- History of household

#### Household economy, food consumption, and basic human need

- · Sources of income and amount of income
- · Cash expenditure
- Food security
- · Consumption of firewood (source, volume of firewood, etc.)
- Existing lending scheme\_
- Water source for domestic uses

#### Agricultural and forestry production

- · Land holding (location, size, type of land use)
- · Land use (shifting cultivation, lowland paddy, upland crops, tree crops, etc.)
- Crop Production
- · Uses of farm inputs

- · Types and number of livestock
- · Ways of raising/feeding animals
- · Harvest of NTFPs and timber products
- · Other livelihood activities
- · Marketing of agricultural and forest products

#### Data and Information collected through the Baseline Survey (Household Member Survey)

Extent of participation of household members in day-to-day activities

• Home activities, farming, slash and burn activities, livestock raising, fishing, forestry, post-harvest and marketing, other businesses, religious and cultural activities, etc.

#### Concerns/Priority of members on:

- Livelihood activities
- · Natural resource management
- · Health.
- · Water supply
- · Agriculture
- · Education
- · Infrastructure, etc.

Data and Information collected through the PRA Sessions

Information	PRA Sessions related to the information					
Present land use and major resources in the village	Resource mapping					
Land use and specific features in land use in different topographic	Transect walking					
conditions						
Seasonal changes in agricultural and socio-economic activities and	Seasonal calendar					
Seasonal issues and difficulties in living in the village						
Prevailing farming practices especially in shifting cultivation	Group discussions on shifting cultivation					
Present status of land in the village	Group discussions on present land use					
Major natural resources and agricultural products important for	Group discussions on natural resources for					
livelihood improvement and market conditions of the products	livelihood improvement					
Major government and non-governmental organizations relevant to	Venn diagram of existing institutions/organizations					
the village						
Past and current customary rules/norms governing forest and natural	Plenary discussions on past and current					
resource management in the village	customary rules/norms					

Source: JICA Project Team (2011)

The JICA Project Team analyzed all the data and information collected in the survey to assess the characteristics of the target sucos. Profiles of the sucos as well as resource available in the villages are compiled in a report as shown in **Appendix-3.2** stored in the CD attached to this report. The characteristics of the target sucos are summarized below.

**Summary of Caracteristics of the Target Sucos** 

	<b>,</b>	oteristies e				
Suco	Faturasa	Fadabloco	Hautoho	Madabeno	Talitu	Tohumeta
1. General Features						
1.1 No. of Sub-villages (Aldeia)	4	4	3	3	6	4
1.2 Area (km <sup>2</sup> ) <1	48.22	17.64	15.22	7.67	11.54	22.82
1.3 Population in 2014 <2	1,220	1,600	600	813	572	1,327
1.4 Household in 2014 <2	244	320	120	160	335	228
1.5 Distance from Dili (Driving hrs)	3 hours	2 hours	2 hours	1 hour	1.5 hours	1 hour
1.6 Food shortage period	NovFeb.	OctFeb.	NovFeb.	OctFeb.	OctFeb.	JanFeb.
2. Agricultural Condition						
2.1 Average Land holding size (ha/HH)						
- Permanent farm	2.0	1.9	0.9	0.7	1.2	0.5
- Coffee plantation	0.7	1.5	1.4	1.4	1.7	0.5
- Area for shifting cultivation	0.03	N.A.	N.A.	0.4	1.5	1.1
2.2 Major crops grown in the area	Maize, cassa	va, sweet pota	to, beans,	Maize,	Maize,	Maize,
	and orange			cassava,	cassava,	cassava,
				beans,	coffee,	vegetables,
				coffee	clove	coffee
2.3 Average yelds of crops (ton/ha)						
- Maize	0.5	0.5	0.5	0.4	0.2	0.1
- Cassav	0.5	0.4	0.6	0.3	0.4	0.4
- Sweet potato	0.4	0.3	0.5	0.3	0.3	0.1
- Coffee	0.2	0.2	0.2	0.4	0.2	0.1

Suco	Faturasa	Fadabloco	Hautoho	Madabeno	Talitu	Tohumeta
- Vegetables	-	-	-	-	-	0.2
2.4 Ratio of household who own anima	ls (%)					
- Cattle	45	33	22	40	15	25
- Goat	70	73	52	60	47	55
- Pig	100	95	93	70	77	88
3. Natural Resource Management						
3.1 Use of firewood						
- Ratio of household	100%	100%	100%	100%	100%	100%
- Frequency of collection (times/wk)	3	3	3	4	4	2
- Volume of collection (bundle/time)	3.6	2.9	4.4	2.5	2.5	2.4
3.2 NTFPs	Honey, Bamboo	Bamboo	Bamboo	Bamboo	Tua mutin	Tua mutin

Note: <1 Data are from ALGIS.

<2 Data are updated by the statistic data in 2014.

Source: JICA Project Team (2015)

## 3.2 Participatory Land Use Planning

After the village profile survey, the same NGOs hired by the JICA Project Team carried out the following activities with the technical assistance of the JICA Project Team in 2011 and 2012 to help village leaders and communities in the target sucos develop a future land use plan and village regulations in a participatory manner.

- i) Organization of a working group for PLUP
- ii) Conduct of an exposure visit
- iii) Present land use mapping
- iv) Future land ue planning (Discussions on future land use options)
- v) Review of the customary rules or existing village regulations
- vi) Discussions on the draft village regulations
- vii) Review of the draft village regulations
- viii) Consultations with local communities about the draft village regulations
- ix) Finalization of the village regulations
- x) Organization of a tara bandu ceremonie

More details of the above-listed activities are described below.

#### **Activities carried out in the Course of PLUP**

Activities carried out in the Course of FLOP					
Activity	Results				
Organization of a	Each village	Each village organized a working group composed of 20~25 persons including the members of suco			
working group	council, elders, and other key informants in the sucos. The lists of the members and				
	roles/respon	sibilities of the m	embers of the working	groups in Suco Fadabloco, Talitu and	
	Madabeno a	re shown in Append	dix-3.3 stored in the CD att	ached to this report.	
Exposure visit	Prior to the	conducts of the PLU	JP activities in the sucos, th	ne members of the working groups of the	
	target sucos	were taken to the vi	llage where the village reg	ulations had been already in place so that	
	the member	s could get a clear	picture of the process and	outputs of the PLUP activities through	
	dialogues wi	th the predecessors	. The following table show	s the dates of the exposure visits and the	
	number of th	e participants in the	e visits.		
		Exposure V	isits arranged		
	Suco	Date of visit	No. of participants		
	Fadabloco	June 9, 2011	31 persons		
	Talitu	June 9, 2011	21 persons		
	Madabeno	June 9, 2011	20 persons		
	Hautoho	May 29, 2012	17 persons		
	Tohumeta	May 29, 2012	11 persons		
	Source: JICA Pr	oject Team (2012)	·	Exposure Visit @ Faturasa	
Present land use	The working	groups except that	of Suco Faturasa made the	present land use map using aerial photos	
mapping	covering their villages with the assistance of the NGOs and JICA Project Team. Dates of the				

#### Activity

#### Paculte

meetings and numbers of members who participated in the meetings are shown below.

**Present Land Use Mapping** 

Suco	Date of meetings	No. of participants				
Fadabloco	June 14 & 15, 2011	68 member in total				
Talitu	June 14 & 15, 2011	45 members in total				
Madabeno	June 16 & 17, 2011	38 members in total				
Hautoho	June 12 & 13, 2012	38 members in total				
Talitu	June 6 & 7, 2012	51 members in total				

Source: JICA Project Team (2012)

The working groups made the present land use maps of the villages taking the following steps:



Present Land Use Mapping

@ Madabeno

- i) Confirmation and/or demarcation of the village boundaries;
- ii) Demarcation of the aldeia boundaries;
- iii) Delineation of roads, footpaths, and rivers;
- iv) Identification of the locations of major village facilities and traditional places;
- v) Demarcation of the areas for forest, coffee plantation, and farming;
- vi) Classification of forests by species, size of trees, and density of trees; and
- vii) Identification of the areas for firewood collection and grazing.

# Future land use planning

The same working groups dicussed how to use and manage the lands within the territories of the sucos with the assistance of the NGOs and JICA Project Team in the following meeting.

**Future Land Use Planning** 

Suco	Date of meetings	No. of participants			
Fadabloco	June 22 & 23, 2011	43 member in total			
Talitu	June 21 & 22, 2011	47 members in total			
Madabeno	June 23 & 24, 2011	45 members in total			
Hautoho	June 15 & 19, 2012	32 members in total			
Tohumeta	June 12 & 14, 2012	41 members in total			
Source: JICA Project Team (2012)					



Future Land Use Planning @ Hautoho

In the meetings, all the working groups decided to: i) protect the existing dense natural forests; ii) improve/rehabilitate the degraded natural forests; iii) use the severely degraded forests for production purposes; and iv) convert the existing shifting cultivation areas into coffee plantations, orchards, and permanent farms with soil conservation measures/agroforest techniques. As a result of the discussions, the future land use maps of the target sucos were also developed by the working groups.

In Suco Faturasa, the village committee organized for implementation of the village regulations in 2007 confirmed the effectiveness of the future land usep plan prepared in 2008 and agreed not to revise the same.

Review of the customary rules/ existing village rules Each working group had a one-day meeting to review and evaluate the past and current rules in the sucos. The working groups of Sucos Fadabloco, Talitu, and Hautoho reviewed and evaluated the customary rules and systems in the past, while those of Suco Faturasa, Madabeno, and Tohumeta reviewed and discussed the existing village regulations developed/put in place recently.

Review of the Customary Rules/Existing Village Rules

Review of the oustomary Rules/Existing Village Rules						
Suco	Date of meetings	No. of participants				
Faturasa	June 17, 2011	22 members				
Fadabloco	June 28, 2011	22 members				
Talitu	June 28, 2011	23 members				
Madabeno	June 30, 2011	24 members				
Hautoho	June 21, 2012	17 members				
Tohumeta	June 20, 2012	16 members				



Review of Existing Village Rules @ Madabeno

Source: JICA Project Team (2012)

The working groups also assessed the effectiveness of the cuatory rules/existing rules as well as necessary rivisions to be made in thecustormary/existing village rules.

Discussions on the village regulations Based on the discussions made in the future land use planning and review of the customary rules/existing village rules in the sucos, the JICA Project Team prepared the draft viage regulations of Suco Talitu, Fadabloco, and Madabeno in advance of the meetings. In Sucos Faturasa and Tohumeta, the working groups only dicussed the parts that they intended to change in the existing village regulations developed in 2008. On the other hand, the working group in Sucos Hautoho dicussed its village regulations refererring those of Suco Fadabloco. The following table shows the dates of the meetings and numbers of participants in the meetings held at the respective sucos.

#### Activity Results Discussions on the Villge Regulations Suco Date of meetings No. of participants Faturasa July 17, 2011 22 members Fadabloco July 6 and 7, 2011 46 members in total Talitu July 5 and 6, 2011 43 members in total Madabeno July 13 & 14, 2011 20 members each Hautoho June 22 & 26, 2012 38 members in total

Tohumeta June 20, 2012 Source: JICA Project Team (2012)

Based on the discussions in the meetings, the JICA Project Team developed the draft village regulations of the target sucos in writting. The outline of the draft village regulations developed for the target sucos is shown below.



Discussion on Village Regulations @ Hautoho

#### Composition of the Village Regulations

16 members

Chapter 1: General and Definition
Chapter 2: Objectives and Coverage

Chapter 3: General Rules

Chapter 4: Future Land Use in the Village

Chapter 5: Rules on the Use and Management of Natural Resources

Chapter 6: Rules on Management of Livestock Animals Chapter 7: Institutional Framework for Implementation Chapter 8: Implementation System of the Regulations

Chapter 9: Monitoring of Implementation and Information Dissemination to Communities

Chapter 10: Financial Management (Income and Expenditure)

Chapter 11: Fines and Penalties

Chapter 12: Final Provision and Effectiveness

Review of the draft village regulations to village leaders

The NGOs made a preentation of the draft village regulations to the working groups on the following dates and helped the members of the working groups, especially village leaders, review and check the draft regulations if there was no discrepancy between the draft ones and their ideas. After the meetings, the JICA Project Team revised the draft village regulations based on the comments and suggestions given by the members.

Review of the Draft Village Regulations

Suco	Date of meetings	No. of participants
Faturasa	June 24, 2011	23 persons
Fadabloco	July 14, 2011	20 persons
Talitu	July 18, 2011	23 persons
Madabeno	July 14, 2011	21 persons
Hautoho	June 26, 2012	21 members
Tohumeta	June 26, 2012	18 members

Source: JICA Project Team (2012)

It was also agreed among the members of the working groups that they would explain the draft village regulations and future land use plans to other communities in the sucos in the consultation meetings held at the aldeia level.



Consultations
with other
communities at
the aldeia level

The working groups with the assistane of the NGOs held consultation meetings at the aldeia llevel and explained the draft village regulations with future land use plans to local communities in the respective sucos.

Consultation Meetings at the Aldeia Level

Suco	No. of meetings	No. of participants
Faturasa	4 meetings	204 persons in total
Fadabloco	4 meetings	327 persons in total
Talitu	4 meetings	257 persons in total
Madabeno	3 meetings	217 persons in total
Hautoho	3 meetings	177 persons in total
Tohumeta	2 meetings	69 persons in total

Source: JICA Project Team (2012)



Consultation Meeting @ Fadabloco

In the consultation meetings, the members of the working groups responded all the comments and questions raised by the participants with the assistance of the NGOs. The meetings were good opportunities not only for the communities to become aware of the regulations but also for the leaders to deepen their understanding of the same.

Finalization of the village regulations

The JICA Project Team and the NGOs finalized the villaege regulations of the target sucos based on the discussions in the consultation meetings with local communities. The final versions of the village regulations with future land use plans of the respective sucos are shown in **Appendix-3.4** stored in the CD attached to this report.

Activity	Results									
Tara Bandu	In order to p	n order to publicly announce the village regulations and future								
ceremonies at the	land use plan	ns to local communi	ties in and around the s	ucos,						
target villages	each target su	each target sucos held the Tara Bandu ceremony as shown below.								
		Tara Bandu Ce	eremonies							
	Suco	Date of meetings	No. of participants							
	Faturasa	July 28, 2011	Over 150 persons							
	Fadabloco	August 3, 2011	About 300 persons	100						
	Talitu	August 18, 2011	Over 100 persons							
	Madabeno	August 25, 2011	Over 100 persons							
	Hautoho	August 14, 2012	Over 400 persons	Tara Bandu Ceremony @						
	Tohumeta	September 2, 2012	About 70 persons	Talitu						
	Source: JICA Pro	oject Team (2012)								
	In addition to local communities, representatives of the relevant government offices, such as MAF, NDF, District Administrative Office, Sub-district Administrative Offices, and National Directorate of Environment also attended the ceremonies.									

## 3.3 Implementation of the Village Regulations

Although the village regulations were put in place in the target sucos after the Tara Bandu ceremony, it was still difficult for village leaders (or village committees for the village regulations) of the target villages to govern the sucos using the village regulations. There was a need to familiarize them with the village regulations and enhance their understanding of the village regulations among not only village leaders but also other local communities in the target sucos, so that the village regulation could be institutionalized as effective tools for governing the sucos in general and protecting/managing natural resources in the sucos in particular.

To this end, the NGOs with the assistance of the JICA Project Team have helped the village committees of the village regulations or village leaders in the target sucos hold the following meetings on a regular basis to enable them to use the village regulations to solve/settle issues happening in the villages.

- i) Monthly monitoring meeting at the suco level
- ii) Bi-monthly or quarterly information sharing meeting at the aldeia level

#### 3.3.1 Monthly Monitoring Meetings at the Suco Level

The village committees of the target villages have periodically held the monthly monitoring meetings to monitor the implementation of the village regulations in the sucos with the assistance of the NGOs. The following table shows the total number of the meetings and the numbers of the participants attending the meetings in the target sucos over the course of the Project.

Number of Monthly Monitoring Meetings held at the Suco Level								
Suco	2011/2012	2012/2013	2013/2014	2014/2015				
Faturasa	4	5	6	8				
Fadabloco	6	6	7	9				
Talitu	3	4	5	4				
Madabeno	4	4	7	8				
Hautoho	-	3	6	7				
Tohumeta	-	2	5	5				

Source: Halarae Foundation and RAEBIA Timor-Leste(2015)

In the meetings, Chefs de Aldeia or representatives from aldeias reported problems that they faced in the previous month and actions that they took to solve such cases. The members also discussed any pending issues to figure out possible actions to be taken for solution with the assistance of the NGOs. Memos of some of the monthly monitoring meetings held at the target sucos are shown in **Appendix-3.5** stored in the CD attached to

this report. The numbers of cases relating to natural resource management, which have been observed since the village regulations were in place, are summarized below.

Number of Illegal Cases happening in the Target Sucos

Suco	Faturasa	Fadabloco	Talitu	Madabeno	Hautoho	Tohumeta	Total
Forest fire							
2011/2012	0	5	2	2	-	-	9
2012/2013	1	4	3	3	1	2	14
2013/2014	6	2	0	0	2	0	10
2014/2015	3	6	0	4	4	2	19
Sub-total	10	17	5	9	7	4	52
Illegal cutting							
2011/2012	0	3	0	0	-	-	3
2012/2013	1	3	0	0	1	0	5
2013/2014	2	1	0	4	0	2	9
2014/2015	1	3	1	1	0	1	7
Sub-total	4	10	1	5	1	3	24
Crop damage							
2011/2012	2	5	1	0	-	-	8
2012/2013	7	4	2	1	1	0	15
2013/2014	1	4	2	7	0	3	17
2014/2015	4	8	3	4	1	4	24
Sub-total	14	21	8	12	2	7	64

Note: <1 The village committees decided to hold a village-level monthly meeting at the aldeia on a rotation basis so that local community could be familiarized with the village regulations.

Source: Halarae Foundation and RAEBIA Timor-Leste(2015)

Although illegal cases, namely, forest fires, illegal cutting, and crop damage caused by grazing animals, have happened in the target sucos, village leaders and local communities in the sucos judged that the incidence of the illegal cases has been drastically reduced since the village regulations were in place.

#### 3.3.2 Information Sharing Meetings at the Aldeia Level

In 2013 and 2014, the NGOs arranged the infromation sharing meetings at the aldeia level to share the results of the monthly monitoring meetings with local communities in the target sucos. From April 2014, the NGOs and village leaders decided to have the monthly monitoring meetings at aldeias on a rotation basis in stead of holding the information sharing meetings to lessen the burden of village leaders but disseminate the information to local communities at the aldeia level efficiently and effectively. The following table shows the numebrs of the information sharing meetings held at the respective target sucos in 2013/2014.

Information Sharing Meetings held at the Aldeial Level in 2013/2014

Suco	No. of meetings	Period	No. of participants
Faturasa	11 times	Sep. 2013-Sep. 2014	313 members in total
Fadabloco	9 times	Sep. – Dec. 2014	281 members
Madabeno	10 times	Sep. 2013 – Feb. 2014	221 members
Tohumeta	3 times	Jul. 2014	58 members

Source: Halarae Foundation (2014) and RAEBIA (2014)

The information sharing meetings became good opportunities not only for the committee to raise awareness of the village regulations among local communities but also for communities to share their problems, which were often not reported by chefs de aldeia in the monthly monitoring meetings, with other committee members.

#### 3.4 Selection of Priority Micro Programs

After PLUP, village leaders and other communities had the following consecutive workshops/meetings with the assistance of the NGOs and JICA Project Team to select and prioritize the potential micro programs suitable in the local settings of the sucos.

**Workshops for Selection of Micro Programs** 

	workshops i	or Selection of wicro Programs	
Workshop	Main Aims	Activities	
1 <sup>st</sup> Workshop	<ul> <li>Enable local communities to get a clear picture of potential micro programs that can be implemented in the village.</li> <li>Confirm the preferable micro programs among local communities.</li> </ul>	<ul> <li>Explain the objectives and process of micro programs</li> <li>Present potential micro programs that can be implemented.</li> <li>Organize separate meetings with male and female participants or villages from different aldeias.</li> </ul>	
2 <sup>nd</sup> Workshop	<ul> <li>Enable local communities to evaluate the preferable micro programs selected in the 1<sup>st</sup> workshop.</li> <li>Help local communities select two to three priority micro programs based on the evaluation.</li> </ul>	<ul> <li>Explain the evaluation criteria for selection of micro programs to the participants.</li> <li>Assist the participants in the evaluation of the preferable micro programs using the evaluation criteria.</li> <li>Assist them in the selection of two or three priority micro programs.</li> </ul>	
Consultation meetings	<ul> <li>Enable village leaders to explain the process of selection of the priority micro programs.</li> <li>Enable other communities to understand the outline and scope of the priority micro programs.</li> </ul>	<ul> <li>Assist village leaders in explaining the process that they have taken for selection of the priority micro programs.</li> <li>Facilitate their discussions among communities to enable them to deepen their understanding of the priority micro programs.</li> </ul>	
3 <sup>rd</sup> Workshop	- Help local leaders understand the scopes of the priority micro programs with roles of key stakeholders including communities.	- Discuss the provisional scope of the priority micro programs as well as roles and responsibilities of key stakeholders in the implementation of the micro programs.	

Source: JICA Project Team (2015)

Each target suco held the above-listed workshops and meetings on the following dates.

Dates of and No. of Participants in the Meetings

	Dates of and No. of Farticipants in the Meetings							
Suco	1 <sup>st</sup> Workshop		2 <sup>nd</sup> V	2 <sup>nd</sup> Workshop		meetings <1	3 <sup>rd</sup> Workshop	
	Date	Participants	Date	Participants	Date	Participants	Date	Participants
Faturasa	Oct. 05,	22 persons	Oct. 12,	13 persons	Oct. 20,	109 persons	Nov.08,	11 persons
	2011		2011	_	2011	_	2011	
Fadabloco	Oct. 06, 2011	21 persons	Oct. 14, 2011	16 persons	Oct. 21 2011	98 persons	Oct. 25 2011	35 persons
Madabeno	Oct. 05, 2011	25 persons	Oct. 18, 2011	18 persons	Oct. 24, 2011	88 persons	Nov.25, 2011	16 persons
Talitu	Oct. 06, 2011	20 persons	Oct. 20, 2011	25 persons	Oct. 28 & Nov 11 2011	86 persons	Nov. 23, 2011	16 persons-
Hautoho	Nov. 29, 2012	38 persons	Dec. 04, 2012	39 persons	Dec. 18 & 19, 2012	166 persons	Dec. 12, 2012	40 persons
Tohumeta	Nov. 30, 2012	28 persons	Dec. 11, 2012	25 persons	Jan. 16, 2012	37 persons	Dec. 15, 2012	14 persons

Remark: <1 The consultation meetings in Hautoho and Tohumeta were held after discussions on the provision scopes of the priority micro programs in response to the request from village leaders.

Source: JICA Project Team (2015)

Through a series of the meetings, the target villages and the JICA and MAF Project Team agreed on the implementation of the following micro programs.

#### Suco Faturasa

i) Sustainable Upland Farming Promotion with Community-Based Seed Extension Micro Program (SUFP with CBSE-MP)

#### Sucos Fadabloco and Hautoho

- i) Sustainable Upland Farming Promotion with Community-Based Seed Extension Micro Program (SUFP with CBSE-MP)
- ii) Income Generating/Livelihood Development Micro Program (IG/LD-MP)

#### Sucos Talitu and Madabeno

- i) Seedling Production and Tree Planting Promotion Micro Program (SPTPP-MP)
- ii) Sustainable Upland Farming Promotion Micro Program (SUFP-MP)

#### Suco Tohumeta

i) Sustainable Utilization of Backyard/Permanent Farm Micro Program (SUB/PF-MP)

The provisional scopes of the respective micro programs agreed on with communities in the target sucos are shown in **Appendix-3.6** stored in the CD attached to this report.

#### 3.5 Implementation of the Micro Programs in the Target Village

The micro programs had been implemented in a phased manners in consideration of the NGOs' capacity; therefore, the target sucos were divided into two (2) groups: Batch 1, in which the micro programs started in the 1<sup>st</sup> quarter of 2012, and Batch 2, where the micro programs began one year after those of batch 1 (in the 1<sup>st</sup> quarter of 2013). The overall implementation schedule of the micro programs in the target sucos is shown below.

	Overall Implementation Schedule of the Micro Programs in the Target Sucos														
Batch	Suco		20	12		2013			2014			2015			
		1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q
Batch 1	Faturasa, Fadabloco, Talitu & Madabeno						l		1						
Batch 2	Hautoho & Tohumeta														

Source: JICA Project Team (2015)

Each micro program comprised two (2) cycles of full-packaged Farmers Field Schools/hands-on training courses, which covered all the techniques introduced in the couse of the micro program. The major activities commonly carried out in the micro programs are shown below.

- i) Preparatory works in the 1<sup>st</sup> year
- ii) 1<sup>st</sup> year FFSs and technical assistance
- iii) Participatory evaluation and planning of an annual work plan
- iv) Preparatory works in the 2<sup>nd</sup> year
- v) 2<sup>nd</sup> year FFSs and technical assistance
- vi) Participatory evaluation and planning of an annual work plan

Moreever, SUFP-MP/SUFP with CBSE-MP/SUB/PF-MP employed a two-step extension approach to disseminate key techniques of the micro programs to the majority of the members. In the 2<sup>nd</sup> year, the beneficiaries' groups formed several sub-groups under the groups by dividing their members based on the locations of farms of houses and conducted one cycle of FFSs/hands-on training on selected key techniques (five techniques in total) at one of the members' plots (which were called the "sub-group demonstration plot"). By this arrangement, the members had practiced all the techniques of sustainable upland farming

at the demonstration plots and also some key techniques at sub-group demonstration plots in the 2<sup>nd</sup> year. The strategy behind the approach was to encourage the members to help each other introduce the key techniques in their own farms according to the customary collective working system (so-called "Harosan system"), where a group of farmers whose farms are located nearby help each other and work together when necessary. The approach had been proved effective in encouraging the members to apply key techniques to their own farms.

## 3.5.1 Results of the First (1st) Batch Sucos

#### (1) Preparatory Works

The following activities were carried out by the NGOs in the 1<sup>st</sup> batch sucos as prepartory works.

- Organization of the beneficiaries' groups at the aldeia level
- Conduct of a study tour for key members of the beneficiaries' group
- Participatory planning of a work plan of the micro program

The result of the prepartory works are summarized below.

Summary of the Preparatory Works Activities **Outline of the Activities Results of the Activities** Organization ◆ Held meetings with villages to Six (6) beneficiaries' groups composed of 160 members were formed for SUFP with CBSE-MP in Faturasa. the beneficiaries' provide guidance on introduce groups the outline of the micro Four (4) beneficiaries' groups composed of 160 members programs and select members were formed for SUFP with CBSE-MP in Fadabloco waters of the beneficiaries' groups of Four (4) beneficiaries' groups composed of 40 women programs were formed for IG/LD-MP in Fadabloco the micro with introduction Six (6) beneficiaries' groups composed of 302 members were formed for SUFP-MP and SPTPP-MP in Madabeno criteria/eligibility for members. Four (4) beneficiaries' groups composed of 145 members Held meetings with selected were formed for SUFP-MP and SPTPP-MP in Talitu villages (or members of the beneficiaries' groups) Resolutions of the respective beneficiaries' groups discuss and determine visions prepared by the beneficiaries' gropups in the target sucos with the assistance of the NGOs and JICA Project Team and missions of the beneficiaries' groups and roles are as shown in Appendix-3.7 stored in the CD attached and responsibilities of the to this report. respective members. Arranged and held study tours A total of 156 members of SUFP-MP/SUFP with Exposure Visits/ Study Tours for for core members of the CBSE-MP in Sucos Madabeno, Talitu, Faturasa, and the Beneficiaries' beneficiaries' groups to visit Fadabloco visited Suco Umakaduak, Manatutu District to villages where similar activities observe the sloping agricultural land techniques. had been already introduced A total of 13 women of IG/LD-MP in Suco Fadabloco visited Suco Edi, Ainaro district to observe food and applied by communities, so that members could deepen processing activities done by local women. understandings of activities and A total of 78 members of SPTPP-MP in Sucos Madabeno and Talitu visited Suco Quintal Portugal, Aileu District to techniques of the micro programs. observe a nursery managed by communities. Held feedback meetings where A total of 11 meetings were held with 326 members of core members who took part in the micro programs in Sucos Faturasa, Fadabloco, Madabeno, and Talitu to share the results of the exposure the study tour could share thier finding with other members. visits among the members. A total of seven (7) workshops/meetings were held with Preparation Held one to three days work plans of the workshops with members of 266 members of the micro programs in the target sucos. micro programs the beneficiaries' groups in the Overall work plans of the respective micro programs target sucos to discuss major were developed by the beneficiaries' groups. activities planned in the micro programs and develop overall work plans of the same in a participatory manner.

Source: JICA Project Team (2015)

# (2) First (1st) Year FFSs and Technical Assistance

The NGOs had arranged and conducted the following activities as the  $1^{st}$  year FFSs of the respepctive micro programs.

Summary of the 1<sup>st</sup> Year FFSs and Technical Assistance

_	OHED!(II.	ODOE MD :	0	F-4	and Fadabloco
а	SUIFP WITH	CRSE-IVIP IN	SIICOS	Fatilitaga	and Fadanioco
u.	OOI I WILLI		<b>O</b> ucos	i atarasa	and i adaptoco

		Sucos i aturasa anu i auabioco					
Topics / Techniques	Month of training	Summary of Activities					
Compost making	Jun. 2012	<ul> <li>◆ The NGO held a two (2) days training session on compost making each at the 10 demonstration plots in Sucos Faturasa and Fadabloco with the participation of 484 members in total.</li> <li>◆ All the beneficiaries' groups in the villages developed a wooden frame enough for production of 1.5~2.5 ton of compost and piled materials for compost in the frame with the technical assistance of the NGO.</li> </ul>					
Delineation of contour lines and application of soil conservation measures	Jul. to Sep. 2012	<ul> <li>The NGO held one (1) or two (2) day/s training sessions on delineation of contour lines and three (3) days sessions on application of soil conservation measures at the 10 demonstration plots in the sucos. A total of 1,348 members attended the sessions and practiced the techniques of i) making A-frames, ii) delineating contour lines using A-frames, iii) making bench terraces, and iv) making contour composting terraces in the demonstration plots.</li> <li>◆ The beneficiaries' groups applied bench terraces, contour composting terraces, and alley cropping to the demonstration plots in both sucos as shown below.</li> </ul>					
		Types of Soil Conservation Measures applied to the Demonstration Plots					
		Suco         Type of techniques         No. of parcels         Total Area           Faturasa         Bench terrace         35 parcels         About 1,720 m²           Contour compos         40 parcels         About 6,180 m²           Alley cropping         3 parcels         About 330 m²           Fadabloco         Bench terrace         26 parcels         About 2,320 m²           Contour compos         30 parcels         About 5,040 m²           Source: USC-CTL (2012)					
Cultivation with compost application	Aug. and Sept. 2012	<ul> <li>The NGO held a one (1) or two (2) day/s training session on cultivation with application of compost at each demonstration plot in both sucos with the participation of 507 members in total.</li> <li>The members who attended the sessions learned how to apply compost when cultivating soils in a farm.</li> </ul>					
Seed selection and sowing of seeds	Oct. and Nov. 2012	<ul> <li>The NGO held a one (1) day training session on seed selection and another one (1) day session on sowing seeds at each demonstration plot in both sucos with the participation of 264 members in total.</li> <li>The members who attended the sessions learned to select quality seeds and planting materials of upland crops (i.e., maize, beans, peanut, cassava and sweet potato) and plant maize and beans in evenly space rows (i.e., 1 m x 0.5 m for maize and 1 m x 0.3~0.5 m for beans) in the same plot.</li> </ul>					
Making of liquid fertilizer	Nov. and Dec. 2012	<ul> <li>The NGO held a one (1) day training session on making of liquid fertilizer at each demonstration plot with the participation of 279 members in total.</li> <li>The members of the beneficiaries' groups in both sucos learned how to make liquid fertilizer using locally available materials, such as cow dung, leaves and grasses, through the sessions.</li> </ul>					
Farm maintenance (weeding, application of liquid fertilizer, and fixing of terraces)	Dec. 2012 to Mar. 2013	<ul> <li>◆ The NGO held a total of 53 training sessions on farm maintenance in the demonstration plots with the participation of 1,073 members in total.</li> <li>◆ The participants engaged in the maintenance of farms, namely weeding, application of liquid fertilizer, and fixing of terraces in the demonstration plots.</li> </ul>					
Planting of other upland	Dec. 2012 and	◆ The NGO held a one (1) or two (2) day/s training session on planting of peanut, cassava and sweet potato at each demonstration plot with the participation of 302					

Topics /	Month of	Summary of Activities
Techniques	training	
crops	Jan. 2013	members in total.  ◆ The members who attended the sessions practiced planting peanut, sweet potato, and cassava in the demonstration plots. In the plots sweet potato and cassava were mixed with maize and bean, while peanut was cropped without being mixed with other crops.
Harvesting and post-harvesting	Apr. and May 2013	<ul> <li>The NGO held a two (2) days training session on harvesting and post-harvesting at each demonstration plot in the sucos with the participation of 483 members in total.</li> <li>The members who attended the sessions practiced harvesting maize, drying maize cobs, selecting seed grains, and storing seed grains using an airtight container.</li> </ul>
OJT in maintenance of crops in the demonstration plots	Dec. 2012 to Mar. 2013	◆ Members of the beneficiaries' groups, especially core members of the groups, had engaged in the maintenance of crops, such as replanting, application of liquid fertilizer, weeding, and planting of cassava/sweet potato, in the demonstration plots as part of OJT. A total of 643 members participated in OJT in the demonstration plots.

b. IG/LD-MP in Suco Fadabloco					
Topics / Techniques	Month of training	Results of the Activities			
Resource assessment and identification of potential livelihoods	May 2011	<ul> <li>◆ The NGO held a one (1) meeting with members of the women groups to assess the potential resources available in the localities and determine the livelihood development options introduced in the suco in a participatory manner.</li> <li>◆ As a result of the discussions, members decided to learn the techniques on the following livelihood options in the course of the micro program.</li> <li>- Dried sweet potato production</li> <li>- Herb tea production</li> <li>- Salted vegetable production</li> <li>- Clothes making and bag making by sewing machine</li> </ul>			
Dried sweet potato production	June to August 2012	<ul> <li>◆ Two (2) training sessions on production of dried sweet potato were held at the suco level by the NGO with technical assistance of a Japanese NGO named PARCIC. A total of 51 members took part in the sessions and learned i) the techniques of processing of sweet potato, ii) sorting of dried sweet potato, iii) packing of quality dried sweet potato, and iv) labeling of the packages.</li> <li>◆ After the sessions, the NGO further held a total 14 training sessions at the aldeia level so that many members could practice the techniques more than once. A total of 109 members attended the sessions and learned the same techniques.</li> </ul>			
Herb tea production	August and September 2012	<ul> <li>Four (4) hands-on training sessions on production of herbal tea were held at aldeia level by the NGO with the technical assistance of PARCIC. A total of 63 members learned how to process fresh leaves into herbal tea and sort the processed products.</li> <li>★ As the process of making herbal tea was simple and easy to learn, members of the beneficiaries' groups continued the production of herbal tea by themselves as part of OJT, the NGO only arranged and held three (3) training sessions on sorting/quality checking of herbal tea with the participation of a total of 55 members.</li> <li>★ Members of the women groups continued the production of herbal tea without technical assistance of the NGO. The quality of their products was evaluated as high as those produced by PARCIC.</li> <li>★ The production of herbal tea was supposed to be continued in the following months, but it was suspended in November due to a lack of raw materials (leaves) in the field.</li> </ul>			
Participation in the food and beverage exhibition	October 2012	<ul> <li>Eight (8) members of the women groups participated in the food and beverage exhibition and displayed their products, namely dried sweet potato and herbal tea, in the same with the assistance of the NGO on October 20, 2012.</li> <li>They were able to observe local products brought by other community organizations throughout the country and meet potential buyers of their products, which resulted in not only the expansion of the members' interest in other processed foods but also the enhancement of their motivation to continue the micro program activities.</li> </ul>			

Topics /	Month of	Results of the Activities
Techniques /	training	Results of the Activities
Salted vegetable production	November 2012	<ul> <li>◆ The NGO held two (2) training sessions on production of salted vegetable at two (2) locations (aldeias) in the suco to give a chance to take part in the sessions as many members as possible.</li> <li>◆ A total of 53 members learned how to pickle vegetables and check the process of fermentation in the sessions.</li> <li>◆ 33 members of the groups also evaluation the quality of salted vegetables after three (3) months fermentation in February 2013.</li> </ul>
Lecture on marketing	December 2012	<ul> <li>◆ A lecture on marketing was held by the NGO on December 4, 2012 with the participation of 24 members of the groups.</li> <li>◆ The participants learned a mechanism on marketing, crucial points/conditions to be considered in marketing, and elements that would affect price setting.</li> </ul>
Banana and cassava chips production	December 2012	◆ The NGO held a one (1) day training session on chips production with technical assistance of PARCIC on December 5, 2012. A total of 34 members of the groups attended the session and learned how to produce banana and cassava chips.
Use of sewing machine	December 2012 and January 2013	<ul> <li>The NGO held a four (4) days training session on use of a sewing machine at two locations in the suco. A total of 139 members attended the sessions and learned the basic skills to use and maintain a sewing machine.</li> <li>After the sessions, the members had kept using the machines to practice their skills on their own initiative.</li> </ul>
Making of recycle bag using rice sacks	February 2013	<ul> <li>Another two (2) sets of three (3) days training session on making a back by using sewing machines were held by the NGO with technical assistance of the JICA Project Team.</li> <li>A total of 95 members attended the sessions and learned how to make a pattern, trace and cut materials, sew materials and finalize a bag.</li> </ul>
Financial management	February 2013	<ul> <li>◆ One day session on financial management was held by the NGO with the participation of 19 members of the women groups.</li> <li>◆ The members learned how to make an inventory of assets and keep a book of account of the groups so that they could manage earnings (or cash) and assets in a proper manner in the future.</li> </ul>

## c. SPTPP in Suco Madabeno and Talitu

c. SPTPP in S		
Topics /	Month of	Results of the Activities
Techniques Establishment of nurseries	training May 2012	<ul> <li>◆ The NGO assisted each beneficiaries' group in the establishment of a nursery enough to produce 2,000 to 6,000 seedlings/plot.</li> <li>◆ A total of 10 nurseries were established in two (2) sucos to produce about 28,500 seedlings of timber and fruit trees.</li> </ul>
Seedbed making	Jun. 2012	<ul> <li>◆ The NGO held a one (1) to two (2) day/s session on seed making at each nursery to help the beneficiaries' group build a seedbed in the nursery.</li> <li>◆ A total of 118 members participated in the sessions and learned how to make a seedbed using materials locally available.</li> </ul>
Selection and preparation of seeds	Jun. and Jul. 2012	◆ 72 members of the beneficiaries' groups learned how to select and pre-treat seeds in a one day session held by the NGO at each nursery.
Sowing of seeds	Jul. 2012	◆ The NGO held a one day session on sowing of seeds at each nursery with the participation of 91 members in total. Members sowed seeds in a seedbed during the sessions.
Preparation of poly bags	Jul. 2012	<ul> <li>◆ The NGO held a one (1) to two (2) day/s session at each nursery to introduce and demonstrate the process of preparing poly bags. A total of 221 members attended the sessions and learned how to mix black soils with other media (sands. sub-soils, and compost) and fill the mixture into poly bags in the sessions.</li> <li>◆ Members had continued the preparation of poly bags with technical assistance of the NGO after the sessions in July and August 2012 until they prepared as many poly bags as they targeted.</li> </ul>
Transplanting	Aug. 2012	◆ The NGO held a one (1) training session on transplanting of sprouts and another one

Topics / Techniques	Month of training	Results of the Activities
of sprouts		<ul> <li>(1) session on planting of teak sprout at each nursery with partiipation of 163 members in total.</li> <li>The members who attended the sessions learned how to transplant sprouts and plant teak stems into poly bags in the sessions.</li> </ul>
Maintenance of seedlings	Aug. to Dec. 2012	<ul> <li>◆ The beneficiaries' groups had maintained the seedlings transplanted in poly bags in the nurseries with technical assistance of the NGO.</li> <li>◆ Members had engaged in watering, weeding, application of natural pesticide and liquid fertilizer, and relocation of seedling pots in the nurseries.</li> </ul>
Delineation of contour lines, staking, and pitting	Nov. and Dec. 2012	<ul> <li>◆ The NGO held a total of three (3) sessions of one (1) day training each at the 12 demonstration plots in two (2) sucos to introduce and demonstrate the techniques of delineating contourlines, staking, and pitting, at each demonstration plot for tree planting in the plots.</li> <li>◆ A total of 413 members attended the sessions and learned how to i) make an A-frame, ii) delineate contour lines using an A-frame, iii) stick stakes along the contour lines, and iv) dig pits at the points where stakes were stuck in the demonstration plots.</li> </ul>
Refilling and planting	Dec. 2012 and Jan. 2013	<ul> <li>◆ The NGO held a one (1) to two (2) day/s session on refilling and planting at each demontration plot with the partiipation of 156 members in total.</li> <li>◆ The members who attended the sessions practiced the techniques of refilling and planting in the demonstration plots so that they could apply the same techniques to their own plots when receiving seedlings.</li> <li>◆ The beneficiaries' groups planted 1,063 seedlings of mahogany, teak, casuarina, sandalwood, and citrus in 12 demonstration plots in (2) sucos.</li> </ul>

#### d. SUFP-MP in Suco Madabeno and Talitu

d. SUFP-MP ii	d. SUFP-MP in Suco Madabeno and Talitu							
Topics /	Month of	Results of the Ac	tivities					
Techniques	training							
Compost making and maintenance of compost	Aug. and Sep. 2012	making and a compost each Madabeno and A total of 199 how to i) p compost fran	The NGO held a two (2) days training session on compost making and another one (1) day session on maintenance of compost each at the nine (9) demonstration plots in Sucos Madabeno and Talitu.  A total of 199 members attended the sessions and learned how to i) prepare materials for compost, ii) make a compost frame, iii) pile materials in a frame, and iv) maintain compost in the course of the sessions.					
Delineation of	Sep. and				eation of contour lines and			
contour lines	Oct 2012				nservation measures at ech			
and	000 2012		plot in the sucos.	neution of son cor	iscivation measures at cen			
application of			5 members attended the	former sessions an	d			
soil			nembers took part in the		SECTION AND ADDRESS OF THE PARTY OF THE PART			
conservation			make an A-frame usi					
measures			delineate contour lines u					
illeasures			terraces, iv) make					
		, ,	terraces, v) make stone terraces, and vi) apply an alley cropping system in the demonstration plots.					
		11 0 5			conservation measures that			
			the beneficiaries' groups developed in the demonstration plots.  Types of Soil Conservation Measures applied to the Demonstration Plots					
		Suco	Type of techniques	No. of parcels	Total Area			
		Talitu	Stone terraces	3 parcels	Total Area			
		Tailtu	Contour composts	20 parcels				
			Alley cropping	9 parcels	About 4,230 m2 in total			
		Madabeno	Bench terraces	8 parcels				
			Contour composts	28 parcels				
			Stone terraces	8 parcels	About 0.200 m2 in total			
		Cormon Halama	Alley cropping	4 parcels	About 9,390 m2 in total			
		Source: Halarae	Foundation (2012)					

Topics /	Month of	Results of the Activities
Techniques Cultivation with application of compost	training Oct 2012	<ul> <li>◆ The NGO held a one (1) or two (2) days training session on cultivation with appliation of compost in each demonstration plot in the sucos with 105 members in total.</li> <li>◆ The members who attended the sessions learned to cultivate a farm and apply compost in a proper manner.</li> </ul>
Sowing/ planting of seeds and planting materials	Oct, Nov. 2012 and Jan. 2013	<ul> <li>◆ The NGO held a one (1) day training session on sowing each for maize and beans in October and November 2012 and another one (1) day session on planting of cassava and sweet potato in January 2013 at each demonstration plot in the sucos.</li> <li>◆ A total of 219 members and 66 members attended the sessions, respectively, and learned how to plant maize mixed with beans and cassava with sweet potato in evenly space rows (maize: 1 m x 0.5 m and beans: 1 m x 0.3-0.4 m and cassava: 1 m x 1m and sweet potato: 1 m x 0.3~0.5 m) in the demonstration plots.</li> </ul>
Making of liquid fertilizer	Nov. 2012	<ul> <li>◆ A one (1) day training session was held by the NGO at each demonstration plot.</li> <li>◆ A total of 122 members attended the sessions and learned how to make liquid fertilizer using materials locally available.</li> </ul>
Farm maintenance (weeding, application of liquid fertilizer, etc.)	Jan. and Feb. 2013	<ul> <li>◆ The NGO held a one (1) day training session on farm maintenance twice to trice in January and February 2013 at each demonstration plot in the sucos.</li> <li>◆ A total of 144 members attended the sessions and practiced the techniques of weeding, applying liquid fertilizer, mulching, and fixing terraces/contour ditches in the demonstration plots.</li> </ul>
OJT in maintenance of farms	Jan. to Mar 2013	◆ After the hands-on training sessions, members of the beneficiaries' groups continued weeding and application of liquid fertilizer in the demonstration plots with technical assistance of the NGO.
Harvesting and post-harvesting	Apr. to Jun. 2013	<ul> <li>◆ The NGO held a one (1) day training session on harvesting of maize and another one (1) or two (2) day/s session on post-harvesting of maize (seed collection and storing of seeds) at each demonstration plot in the sucos.</li> <li>◆ A total of 117 members and 134 members attended the sessions on harvesting and post-harvesting, respectively, and practiced the techniques of harvesting, drying maize cobs, selecting seeds from dried cobs, and storing selected seeds in an airtight container.</li> </ul>

# (3) Results of the First (1st) Year FFSs

The results of the 1<sup>st</sup> yea FFSs are summarized below

Summary of Results of the 1<sup>st</sup> Year FFSs and Technical Assistance

Micro	Suco	Results of	f the Acti	vities					
Program									
SUFP with CBSE-MP	Faturasa Fadabloco	<ul> <li>◆ A total of 10 demonstration plots were developed in Sucos Faturasa and Fadabloco.</li> <li>◆ Through a series of FFSs on sustainable upland farming using improved seeds in the demonstration plots, the beneficiaries' groups produced maize (improved variety), peanut (improved an local), red bean (local), sweet potato (improved), and cassava (improved) in the demonstration plots. The following table shows the production of those crops and volume of seeds sown in the demonstration plots.</li> <li>Harvest volume at the demonstration plots for SUFP with CBSE-MP</li> </ul>							
						•			(unit: kg)
		Suco	No. of	Maize (I	(mproved)	Peanuts (In	proved)	Peanut	ts (Local)
			plots	Volume	Production	Volume	Production	Volume	Production
				of Seed	<1	of Seed	<1	of Seed	<1
		Faturasa	6 plots	8.5	1,725	10.0	60	n.a.	0
		Fadabloco	4 plots	5.5	1,045	12.0	135	4.5	51
		Total	10 plots	14.0	2,770	22.0	195	4.5	51
								(u	mit: Pcs./kg)
		Suco	No. of	Sweet Potat	to (improved)	Cassava	(improved)	Red bea	ns (Local)
			plots	No. of	Production	No. of	Production	Volume	Production

Micro Program	Suco	Results	of the Ac	etivities					
				runners	<1	sticks	<1	of Seed	<1
		Faturasa	6 plots	n.a.	483	n.a		n.a.	n.a.
		Fadabloco		n.a.	390	60		n.a.	n.a.
		Note: <1	10 plots		872 s estimated by r	60	0 1,260 g the unit production	n.a.	n.a.
				int) with the total i				on of crops (pr	oduction from 1
			data not av						
		Source: US			(or the retic	of out	mut to innut)	of the imp	wayad maiza
							put to input) about 200:1 (p		
							age yield of m		
		on a	verage). l	However, there	e was no sig	nificant	difference in p	productivity	between the
		impr	oved and	d local varieti	es of peanu	t, as th	ey got damag	ed in the in	nitial growth
				roken weather		,	, ,		C
						save a to	otal of 1.2 ton	of improve	d maize seed
		and	0.1 ton	of improved	peanut seed	ds for	cropping in 2	013 with t	the technical
		assis	tance of	the NGO as sh	own below.				
				Volume of	Seeds stored	for Cro	pping in 2013/20	014	
									(unit: kg)
		Suc		No. of plots	Maize (Imp	roved)	Peanuts (Improv	ved) Peanu	ıts (Local)
				6 plots 4 plots	825 380		94	35	
		Tota		10 plots	1,205		154	35	
		Sour	ce: USC-CI	TL (2013)	•			<u>'</u>	•
IG/LD-MP	Fadabloco						and held for		
							ich as product		
		•		•	•		the end of Apr	il 2013, the	groups were
		able	to earn s	mall cash inco	me as show	n below	•		
							(as of the end of	April 2013)	
				B <b>eneficiaries' gro</b> Broup Lilitei	ups	13.35	ne generated		
				Froup Raifato		11.50			
				Froup Liquica		21.50			
				Group Rileu e*n/a: data not av	., ,,	n/a*			
SPTPP-MP	Madabeno	♦ A to	Sou	rce: USC-CTL (20	013)	ped by	the benefici	aries' grou	ps in Sucos
SPTPP-MP	Madabeno Talitu		Sou	orce: USC-CTL (20 0 nurseries	013)	ped by	the beneficia	aries' grou	ps in Sucos
SPTPP-MP		Mad ◆ Abou	Sou otal of 1 abeno an ut 22,000	orce: USC-CTL (20 O nurseries of d Talitu. O seedlings we	were develo	and sh	ared by memb	ers of the l	beneficiaries'
SPTPP-MP		Mad ◆ Abougrou	sou otal of 1 abeno an ut 22,000 ps. Acco	orce: USC-CTL (20)  O nurseries of Talitu.  O seedlings we ording to the N	were develo	and sh		ers of the l	beneficiaries'
SPTPP-MP		Mad ◆ Abougrou	Sou otal of 1 abeno an ut 22,000	orce: USC-CTL (20)  O nurseries of Talitu.  O seedlings we ording to the N	were develo	and sh	ared by memb	ers of the l	beneficiaries'
SPTPP-MP		Mad ◆ Abougrou	sou otal of 1 abeno an ut 22,000 ps. Acco	d Talitu.  O seedlings we ording to the Nots/farms.	were develorere produced NGO, all the	and she seedin	ared by memb	pers of the lembers we	peneficiaries' re planted in
SPTPP-MP		Mad ◆ About grou	sou otal of 1 abeno an ut 22,000 ps. Acco abers' plo	0 nurseries of Talitu. 0 seedlings we ording to the Note of Seed	were develor were produced NGO, all the	and she seedin	ared by memb	pers of the lembers were	peneficiaries' re planted in
SPTPP-MP		Mad ◆ About grou	sou otal of 1 abeno an ut 22,000 ps. Acco	orce: USC-CTL (20 0 nurseries of d Talitu. ) seedlings we ording to the N tts/farms. No. of Seed	were develorere produced NGO, all the	and she seedin	ared by memb gs given to m	pers of the lembers we	peneficiaries' re planted in
SPTPP-MP		Mad ◆ About grou	sou tal of 1 abeno an ut 22,000 ps. Acco abers' plo  Species Sandalwe Citrus	orce: USC-CTL (20 0 nurseries of d Talitu. ) seedlings we ording to the N tts/farms. No. of Seed	were development of the developm	and she seedin	ared by membgs given to m  mbers in 2012/201  Talitu  570  468	eers of the beambers we (Unit: Total 1,083 662	peneficiaries' re planted in
SPTPP-MP		Mad ◆ About grou	sou tal of 1 abeno an ut 22,000 ps. Acco abers' plo  Species Sandalwe Citrus Teak	one: USC-CTL (20 O nurseries of Talitu. O seedlings we ording to the Nots/farms. No. of Seed	were development of the developm	and she seedin	ared by memb gs given to m mbers in 2012/201 Talitu 570 468 2,783	(Unit: Total 1,083 662 7,916	peneficiaries' re planted in
SPTPP-MP		Mad ◆ About grou	sou tal of 1 abeno an ut 22,000 ps. Acco abers' plo  Species Sandalwe Citrus	onurse: USC-CTL (20 O nurseries of Talitu. O seedlings we ording to the Nots/farms. No. of Seed	were development of the developm	and she seedin	ared by membgs given to m  mbers in 2012/201  Talitu  570  468	eers of the beambers we (Unit: Total 1,083 662	peneficiaries' re planted in
SPTPP-MP		Mad ◆ About grou	sou tal of 1 abeno an ut 22,000 ps. Acco abers' plo  Species Sandalwe Citrus Teak Mahogar Casuarin Albizia	onurse: USC-CTL (20 O nurseries of Talitu. O seedlings we ording to the Nots/farms. No. of Seed	were development of the developm	and she seedin	ared by memb gs given to m mbers in 2012/201 Talitu 570 468 2,783 3,268 0	(Unit: Total 1,083 662 7,916 8,723 3,032 767	peneficiaries' re planted in
SPTPP-MP		Mad ◆ About grou	sou tal of 1 abeno an at 22,000 ps. Acco abers' plo  Species Sandalwe Citrus Teak Mahogar Casuarin Albizia Total	onurse: USC-CTL (20 O nurseries of Talitu. O seedlings we ording to the Nots/farms.  No. of Seedlings  No. of Seedlings	were development of the developm	and she seedin	ared by memb gs given to m mbers in 2012/201 Talitu 570 468 2.783 3.268 0	ers of the l embers we. (Unit: Total 1,083 662 7,916 8,723 3,032	peneficiaries' re planted in
SPTPP-MP		Mad ◆ About grou	sou tal of 1 abeno an at 22,000 ps. Acco abers' plo  Species Sandalwe Citrus Teak Mahogar Casuarin Albizia Total	onurse: USC-CTL (20 O nurseries of Talitu. O seedlings we ording to the Nots/farms. No. of Seed	were development of the developm	and she seedin	ared by memb gs given to m mbers in 2012/201 Talitu 570 468 2,783 3,268 0	(Unit: Total 1,083 662 7,916 8,723 3,032 767	peneficiaries' re planted in
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SPTPP-MP		Mad ◆ Abor ground mem  The which	soutal of 1 abeno an at 22,000 ps. Accorders' plo Species Sandalw. Citrus Teak Mahogar Casuarin Albizia Total Source: H. beneficiath were t	onurse: USC-CTL (20  Onurseries of Talitu. Oseedlings we ording to the Nots/farms.  No. of Seedlings we advantage of the Nots of Seedlings we are seedlings we ording to the Nots/farms.  No. of Seedlings we are seedlings with the Nots of Seedlings we are seedling	were development of the following distributed by the development of th	and she seedin	ared by memb gs given to m  mbers in 2012/201  Talitu 570 468 2.783 3.268 0 0 7.089  o decided not ruary 2013 as	ers of the lembers we:  (Unit: Total 1,083 662 7,916 8,723 3,032 767 22,173 to distribuit would be	peneficiaries' re planted in  Pes.)  atte seedlings e difficult for
SPTPP-MP		Mad Abor grou mem	soutal of 1 abeno an ut 22,000 ps. Accorders' plo Species Sandalw. Citrus Teak Mahogar Casuarin Albizia Total Source: H. beneficiath were t seedling	on urseries of Talitu.  O seedlings we ording to the Mats/farms.  No. of Seedlings we advantage of the Mats/farms.  No. of Seedlings we ording to the Mats/farms.  No. of Seedlings we ording to the Mats/farms.	were development of the following distributed by the development of th	and she seedin	ared by memb gs given to m mbers in 2012/201 Talitu 570 468 2.783 3.268 0 0 7.089  O decided not ruary 2013 as reuslt, About 5	ers of the lembers we:  (Unit: Total 1,083 662 7,916 8,723 3,032 767 22,173 to distribuit would be	peneficiaries' re planted in  Pes.)  atte seedlings e difficult for
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SPTPP-MP		Mad Abor grou mem	soutal of 1 abeno an ut 22,000 ps. Accorders' plo Species Sandalw. Citrus Teak Mahogar Casuarin Albizia Total Source: H. beneficiath were t seedling	onurseries of Talitu.  O seedlings we ording to the Mats/farms.  No. of Seedlings we added to the Mats/farms.  No. of Seedlings we ording to the Mats/farms.	were development of the series	adabencary/Febr. As a r D13/201	ared by memb gs given to m  mbers in 2012/201  Talitu 570 468 2.783 3.268 0 0 7.089  O decided not ruary 2013 as reuslt, About 5 4.  rries in 2013/2014 (Unit: Pcs.)  (seedlings 1,749 2,286 874 384	ers of the lembers we:  (Unit: Total 1,083 662 7,916 8,723 3,032 767 22,173 to distribuit would be	peneficiaries' re planted in  Pes.)  atte seedlings e difficult for
SPTPP-MP		Mad Abor grou mem	soutal of 1 abeno an ut 22,000 ps. Accorders' plo Species Sandalw. Citrus Teak Mahogar Casuarin Albizia Total Source: H. beneficiath were t seedling	onurseries of Talitu.  O nurseries of Talitu. O seedlings we ording to the Mats/farms.  No. of Seedlings we ording to the Mats/farms.  Species Sanda Orang Teak Mahog Total	were development of the series	adabencary/Febr. As a r No. of	ared by memb gs given to m mbers in 2012/201 Talitu 570 468 2,783 3,268 0 0 7,089  O decided not mary 2013 as east, About 5 4.  rries in 2013/2014 (Unit: Pcs.) Seedlings 1,749 2,286 874 384 5,293	ers of the lembers we:  (Unit: Total 1,083 662 7,916 8,723 3,032 767 22,173 to distribuit would be	peneficiaries' re planted in  Pes.)  atte seedlings e difficult for
	Talitu	Mad Abor grou mem	Soutal of 1 abeno an ut 22,000 ps. Accorders' ploses Sandalwe Citrus Teak Mahogar Casuarin Albizia Total Source: He beneficiate he were the seedling enureries.	onurseries of Talitu.  O nurseries of Talitu. O seedlings we ording to the Mats/farms.  No. of Seedlings we ording to the Mats/farms.  Seedlings we ording to the Mats/farms.  No. of Seedlings we ording to the Mats/farms.	were development of the produced NGO, all the Madabeno 513 194 5,133 5,455 3,032 767 15,084 a (2012) in Suco M lant in Janua fter planting in raised in 20 ceedlings left in the Madabeno 198 any Management of the Management of th	adabencary/Febr. As a r 013/201 the Nurse	ared by memb gs given to m  mbers in 2012/201  Talitu 570 468 2.783 3,268 0 0 7,089  O decided not ruary 2013 as euslt, About 5 4.  cries in 2013/2014 (Unit: Pcs.)  Seedlings 1,749 2,286 874 384 5,293 2)	ers of the lembers we.  (Unit: Total 1,083 662 7,916 8,723 3,032 767 22,173  to distributit would be,300 seedling	peneficiaries' re planted in  Pcs.)  atte seedlings e difficult for ngs were left
SPTPP-MP  SUFP-MP	Talitu	Mad ◆ Abor grou mem   The whice such in the	source: H beneficiate seedling enureries	onurseries of Talitu.  O nurseries of Talitu. O seedlings we ording to the Mats/farms.  No. of Seedlings we ording to the Mats/farms.  Seedlings we ording to the Mats/farms.  No. of Seedlings we ording to the Mats/farms.	were development of the produced NGO, all the Madabeno 513 194 5,133 5,455 3,032 767 15,084 a (2012) in Suco M lant in Janua fter planting in raised in 20 ceedlings left in the Madabeno 198 any Management of the Management of th	adabencary/Febr. As a r 013/201 the Nurse	ared by memb gs given to m mbers in 2012/201 Talitu 570 468 2,783 3,268 0 0 7,089  O decided not mary 2013 as east, About 5 4.  rries in 2013/2014 (Unit: Pcs.) Seedlings 1,749 2,286 874 384 5,293	ers of the lembers we.  (Unit: Total 1,083 662 7,916 8,723 3,032 767 22,173  to distributit would be,300 seedling	peneficiaries' re planted in  Pcs.)  atte seedlings e difficult for ngs were left
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	Talitu	Mad  ◆ Abor grou mem   The whice such in the  A to Talit  ◆ Alth	Soutal of 1 abeno and 22,000 ps. Accorders' plothers' pl	onurseries of Talitu.  O nurseries of Talitu. O seedlings we ording to the Mats/farms.  No. of Seedlings we ording to the Mats/farms.  Source: A seedlings we ording to the Mats/farms.  Source: A seedlings we ording to the Mats/farms.  Source: A seedlings we ording to the Mats/farms.  No. of Seedlings we ording to the Mats/farms.  Source: A seedlings we ording to the Mats/farms.  No. of Seedlings we ording to the Mats/farms.  Source: A seedlings we ordinate to the Mats/farms.  Source: A seedlings we	were development of the developm	adabencary/Febr. As a r 013/201 the Nurse No. of the Surface No. of th	ared by memb gs given to m  mbers in 2012/201  Talitu 570 468 2.783 3,268 0 0 7,089  O decided not ruary 2013 as euslt, About 5 4.  cries in 2013/2014 (Unit: Pcs.)  Seedlings 1,749 2,286 874 384 5,293 2)	ers of the lembers we.  (Unit: Total 1,083 662 7,916 8,723 3,032 767 22,173  to distributit would be,300 seedling to the lembers we.	peneficiaries' re planted in  Pcs.)  atte seedlings e difficult for ngs were left  adabeno and d maize, its

Micro	Suco	Results of the A	ctivities					
Program								
		the same rea	low soil fertility. Moreover, the groups were hardly able to harvest other crops due to the same reasons. The following table shows the summary of the results of maize production in the demonstration plots in the sucos.					
			Harvest volu	ume at the demonstrati	on plots for SUFP-M			
						(unit: kg)		
		Suco	No. of plot	Seeds planted	Production	Seed stored		
		Talitu	3 plots	1.3	62.0	12.0		
		Madabeno	6 plots	5.0	291.0	104.0		
		Total	9 plots	6.3	353.0	116.0		
		◆ The average 60:1, which Faturasa, all However, so better perform ◆ Accordingly.	was rather lo though the Nome demonstra- mance. , only few mer	ction to seeds sow wer than those of GO introduced th tion plots, of whice	oserved in the place improved var h soil fertility was	ration plots was about ots in Fadabloco and iety in all the sites. is rather high, showed measures to their own		

## (4) Participatory Monitoring and Evaluation of the Micro Programs

In February/March 2013, the beneficiaries' groups and women groups of the micro programs in the 1<sup>st</sup> batch sucos had a two-day meeting each for the micro programs to evaluate the results of the 1<sup>st</sup> year FFSs and discuss necessary improvements to be made to make the 2<sup>nd</sup> year FFSs more effective. The groups also discussed and developed annual work plans of the respective micro programs in 2013/2014 with the assistance of the NGOs in the meetings.

# (5) Second (2<sup>nd</sup>) Year FFSs and Technical Assistance

In the 2<sup>nd</sup> year FFSs and technical assistance, the emphasis was put on dissemination of the techniques among members rather than demonstration of the same in the demonstration plots. Hence, the two-step extension approach, which aimed to encourage members to apply key techniques to their own farms in accordance with the customary collective working system (so-called "Harosan system"), was employed for SUFP-MP, SUFP with CBSE-MP, and SUB/PF-MP as explained in the previous section.

On the other hand, the focus of IG/LD-MP was put on the operations of a small scale business/enterprise using techniques introduced, while SPTPP-MP aimed to produce high value trees which would motivate members to protect plantations from being damaged by forest fires and animal grazing.

The 2<sup>nd</sup> year FFSs and other technical assitstane activities carried out in the 1<sup>st</sup> batch sucos are summarized below.

Summary of the 2<sup>nd</sup> Year FFSs and Technical Assistance

## a. SUFP with CBSE-MP in Sucos Faturasa and Fadabloco

Topics / Techniques	Month of training	Summary of A	Activities				
Reorganization of members of the beneficiaries' groups	Apr. 2013	<ul> <li>◆ Prior to the conducts of hands-on training courses/FFSs, the NGO helped members of the beneficiaries' groups organize sub-groups based on the customary collective working system or the proximity of their houses in the sucos. The following table shows the sub-groups organized under the respective groups.</li></ul>					
		Fadabloco Source: USC-C	4 groups  TL (2013)	16 sub-groups	Total: 159 members  5~11 members/sub-group  Total: 133 members		
Hands-on	May 2013	◆ The NGO	held almost the	same hands-on training	g sessions except the ones for		

Topics / Techniques	Month of training	Summary of Ac	tivities					
training in the Main Demonstration Plots	– May 2014	delineation of contour lines and application of soil conservation measures in the demonstration plots in Sucos Faturasa and Fadabloco.						
		Topic	Hands-on T Suco	raining Sessions held in the Demonstration I Date of training	Plots No. of participants			
		Compost	Faturasa	12 sessions from May 14 to Jun. 14, 2013	276 members in total			
		making	Fadabloco	8 sessions form May 10 to 28, 2013	249 members in total			
		Turn-over of compost	Faturasa Fadabloco	12 sessions from July. 3 to Aug. 27, 2013 8 sessions from Jun. 21 to Aug. 22, 2013	269 members in total 249 members in total			
		Installation of	Faturasa	13 sessions from Aug. 13 to 27, 2013	259 members in total			
		animal pen	Fadabloco	8 sessions on Aug. 16 and 29, 2013	241 members in total			
		Land clearing and cultivation	Faturasa Fadabloco	6 sessions from Sep. 3 to 19, 2013, 2013	132 members in total			
		Application of	Faturasa	4 sessions from Aug. 11 to Sep. 12, 2013 6 sessions from Oct. 15 to 18, 2013	235 members in total 131 members in total			
		Compost	Fadabloco	4 sessions on Oct.18 and 22	127 members in total			
		Selection of seeds	Faturasa	6 sessions from Oct. 28 to 31	160 members in total			
		Sowing of seeds	Fadabloco Faturasa	4 sessions on Oct. 23, 24, and 25, 2013 6 sessions from Nov. 12 to 18, 2013	133 members in total 140 members in total			
			Fadabloco	4 sessions from Nov. 11 to 15, 2013	141 members in total			
		Production of	Faturasa	6 sessions on Nov. 20, 21, and 22, 2013	138 members in total			
		liquid fertilizer  Maintenance of	Fadabloco Faturasa	4 sessions from Nov. 20 to 23, 2013 12 sessions from Dec. 9 to 13, 2013	135 members in total 304 members in total			
		farm	Fadabloco	8 sessions from Dec. 9 to 14, 2013	227 members in total			
		Planting of	Faturasa	6 sessions on Jan. 8, 9, and 10, 2014	139 members in total			
		hedgerows Planting of lehe	Fadabloco Faturasa	4 sessions from Dec. 28 to 31, 2013 6 sessions on Feb. 4, 5, and 6, 2014	133 members in total 143 members in total			
		(green manure)	Fadabloco	4 sessions on Jan. 31 and Feb. 12, 2014	117 members in total			
		Harvesting of	Faturasa	6 sessions from Mar. 21 to Apr. 26, 2014	154 members in total			
		Post-harvesting	Fadabloco Faturasa	4 sessions on Mar. 25, 26 and 27, 2014 6 sessions from Apr. 28 to May 1, 2014	127 members in total 120 members in total			
		of maize	Fadabloco	4 sessions on Apr. 29, 2014	126 members in total			
		Fixing of	Faturasa	6 sessions on May 8 and 9, 2014	134 members in total			
		source: USC-C TL (2	Fadabloco	4 sessions on May 7, 8, and 9, 2014	100 members in total			
		<ul> <li>Installation</li> <li>Planting of</li> <li>Planting of</li> <li>The member materials localehe as cover</li> </ul>	of an anima leguminous lehe as gree s who atten cally availab crops as we	crops/trees as hedgerows n manure ided the sessions learned to i) build ble, ii) develop hedgerows on conto ell as green manure to maintain soil for	I an animal pen using ur bunds, and iii) use ertility.			
Training in the				nembers to apply key techniques e				
Sub-group Demonstration Plots	- Feb. 2014		he sub-group	own farms, the following training so demonstration plots (one of the farm				
			- '	ng Sessions held in the Demonstration Plots				
		Topic	Suco	Date of training	No. of participants			
		Compost making	Faturasa Fadabloco	18 sessions from May 17 to Jun. 20, 2013 23 sessions from May 22 to Jun. 14, 2013	299 members in total 292 members in total			
		Maintenance	of Faturasa	10 sessions from Jul. 01 to 31, 2013	163 members in total			
		Compost	Fadabloco		144 members in total			
		Delineation Contour lines <1	of Faturasa Fadabloco	14 sessions from Jul. 04 to 17, 2013 14 sessions from Jul. 03 to 19, 2013	144 members in total 144 members in total			
		Plowing wi		16 sessions from Aug. 01 to 21, 2013	153 members in total			
		compost application		<u> </u>	137 members in total			
		Sowing of seeds <2	Faturasa Fadabloco	15 sessions from Nov.13 to 18, 2013 16 sessions from Nov.13 to 19, 2013	143 members in total 134 members in total			
		Preparation of liqu	***********	6 sessions from Nov.23 to 27, 2013	49 members			
		fertilizer <3	Fadabloco	5 sessions from Nov.23 to 27, 2013	47 members			
		Application of liquifertilizer <2	id Faturasa Fadabloco	15 sessions from Dec.16 to Dec.20, 2013 16 sessions from Dec.14 to 21, 2013	114 members 135 members			
		Planting of lehe <2	Faturasa	15 sessions from Feb.5 to 27, 2014	130 members			
			Fadabloco	16 sessions from Feb.25 to 28, 2014	129 members			
				of contour lines" is composed of two agenda: a using A-frames.	i) making of A-frames and ii)			
		<2 The training	ig courses were	arranged according to the request from the me				
				ose farms were far from the main demons	tration plots conducted the			
	<u></u>	Source: USC-CTL (20	raining courses 014)	<del></del>				
		- (=-						

Topics / Techniques	Month of training	Summary of Activities
Application of techniques	May 2013 — Feb. 2014	<ul> <li>In the sessions at the sub-group demonstration plots, the emphasis was put on the application of the key techniques in the field. The NGO had functioned as more like a facilitator than a trainer.</li> <li>Another aim of the training sessions at the sub-group demonstration plot was to encourage members to help each other introduce the same techniques in their own farms using the customary collective working system, since application of some of the techniques was laborious and a lack of laborforce was one of the difficulties commonly observed in the sucos.</li> <li>As the collective working system (harosan system) was a traditional informal agreement that anyone who got help from the neighbors should do the same for those who helped. It was, therefore, expected that a chain reaction of mutual help could be triggered once the Project arranged opportunities for them to work together in the sub-group plots.</li> <li>Having had the training at the sub-group demonstration plots, the members of the sub-groups have helped each other apply the techniques that they practiced at the sub-group plots to their own farms with technical assistance from the NGO. According to the NGO, all the members (315 members) have applied the following key techniques to their own farms.</li> <li>Production of compost</li> <li>Application of contour composting techniques (some also applied bench terrace techniques to their own plots.)</li> <li>Application of liquid fertilizer</li> </ul>

#### b. SUFP with CBSE-MP in Suco Fadabloco

		Suco Fadabioco			
Topics Techniques	Month of training	Summary of Activities			
Hands-on training	May 2013 - May 2014	<ul> <li>The 2<sup>nd</sup> year training and techniques of me they could produce p Dili.</li> <li>The following table arranged and held by the second point of the product of the product</li></ul>	mbers of the woo products/commod shows hands-or	men groups so that lities marketable in 1 training sessions	
		Hands-o	n Training Sessions	held in the Demonstratio	n Plots
		Topics	No. of groups	Date of Session	No. of participants
		Pickled vegetables (sayote)	4 groups	Jun. 12, 2013	14 members
		Clothes making using	3 groups	Jul. 9-13, 2013	103 members in total
		sewing machines	1 group	Jul. 16-20, 2013	40 members in total
		Cassava chips production Source: USC-C TL (2014)	3 groups	Oct. 25, 2013	16 members
Hands-on	May 2013	collaboration with the Agribusiness (NPCIP) standards of the Succession opportunity for members of hardness and color. ◆ In February 2014, management for memers as the women groups sales of cassava chips the bookkeeping.	ne National Dir A) to improve the Ida Program wers to judge that the NGO also abers of the group had already starts. A total of 20 m	ectorate of Coffee, ne quality of cassav Ida Program. The the products still ne aranged and held ps to enhane their cased earning substantial nembers took part in	October 25 was held in Industrial Plants, and a chips according to the session became a good eded improving in terms  a sesion on financial apacity for bookkeeping al cash income from the the session and practice
training	– May	continuously practice	the cassava chip	ps production. Each	group selected two (2)
	2014	produce quality chips to be resource perso produce quality chips from Rieu, were not a	though OJT. The ns who could he afterward. In fa able to participate	e selected eight (8) help other members ct, some selected m e in a series of OJT	master the techniques to members were supposed upgrade their skills to embers, especially those as their houses were far rs in Lilitei and Raifato

Topics / Techniques	Month of training	Summary of Activities			
-			•		ng table shows the OJT
		•		the end of February 201	
		Hands- Topics	on Training Sessi No. of groups	ons held in the Demonstration  Date of Session	on Plots No. of participants
		Use of slicer	4 groups	Aug.16, 2013	9 members
		Frying and seasoning chips	3 groups	Sep. 24, 2013	6 members
		Preparation of the products for the exhibition	3 groups	Oct. 15, 2013	7 members
		Frying and seasoning chips	3 groups	Oct. 22, 2013	9 members
		Improvement of the seasoning	3 groups	Nov. 6 & 14, 2013	20 members in total
		Production of cassava chips for delivery to Kor Timot	3 groups	Nov. 25, Dec. 10, & 11, 2013	31 members in total
		Production of cassava chips for exhibition	3 groups	Dec.16, 2013	13 members
		Chips production of delivery to the buyers	3 groups	Jan. 23, 30, Feb. 6 & 11, 2014	45 members in total
		Source: USC-C TL (2014)			
		<ul><li>become able to produ</li><li>The members of the using daleta leaves an</li></ul>	ice quality cass women' group	ava chips which could be had also engaged in the	ality, the members have be marketed in Dili. the production of herb tea the sucos in August and
M 1 4	M 2012	September 2013.	) · (T 1	. 1	wing promotion activities
Marketing promotion of the	May 2013 - May		-		men groups in the major
product	2014	markets in Dili.	t (Cassava Cilij	ps) produced by the wo	men groups in the major
product	2014		on Training Sessi	ons held in the Demonstratio	on Plots
		Activity	Date of Action	Purpose and Result	
		Contact with an NGO (Kor Timor) responsible for the SIPI project	Oct. 21, 2013	cassava chip to Kor Timor organiation.	ject Team brought a sample of to get the feedback from the
		Promotion of cassava chips in the MAF's expo	Oct. 16, 2013		roject Team displayed cassava anized by MAF. A total of 16 vere sold at the expo.
		Negotiation and agreement with Kor Timor about sales of cassava chips	Nov. 27, 2013	the NGO and Kor Timor ag	of the quality of cassava chips, greed to sell cassava chips on a the antenna shop run by Kor
		Promotion of cassava chips at the antenna shop of Kor Timor	Dec.13, 2013		ganized a tasting event at the or, so as to increae potential
		Promotion of cassava chips in the exhibition	Dec.18 & 23, 2013		ntroduced cassava chips at a otal of 12 womens attended the
		Contact with a large supermarket (PATEO) to market cassava chips	Jan.31, 2014	cassava chip to PATEO in l	ject Team brought a sample of Dili. PATEO agreed to buy 50 from the NGO to sell them in
		Source: USC-C TL (2014)			
Discussion on	Feb. 2014				the sales of cassava chips
benefit sharing					a total of 15members of
					nd use the earnings. The arnings for the meantime,
					chips production, and iii)
					enefit to those who have
		worked for cassava c			chem to mose who have
- COTOD MD :-	Sugas Mad	abeno and Talitu	ps productio		

#### c. SPTPP-MP in Sucos Madabeno and Talitu

Topics / Techniques	Month of training	Summary of	Activities		
Reorganization of members of the beneficiaries'	Mar. 2013		e membership a	the 2 <sup>nd</sup> year FFSs, the be as shown below.	neficiaries' grousps reviewed and
groups		Suco	Aldeia	No. of Sub- groups	Average No. of members
8		Madabeno	6 aldeias	9 groups	11~36 members/group Total: 117 members
		Tlitu	4 aldeias	5 groups	15~33 members/group Total: 221 members
		♦ In respon			the NGO and the beneficiaries' ciaries' groups considering the

Topics /	Month of	Summary of Activ	vities			
Techniques	training	11.11.4	41	1 1 1 1 1 6	T <sub>4</sub>	1 14 4 1
				es developed in the first year. sery for the 2 <sup>nd</sup> year producti		also agreed that each
Determination of	Mar. and			ing with the beneficiaries' gr		dicuss the types and
the Targets in	Apr. 2013			be produced in the nurser		
2013/2014	1			ved their interest in fruits ar		
		below.				-
		T	ypes and Num	bers of Seedlings to be produced in	the Nurs	ries
		Suco Type Madabeno Ramb	s of seedlings	Orange/Citrus, Sandalwood, Clove,	No. of s	seedlings seedlings/member
			ogany, Teak, an		43 – 73	seedings/member
				Orange/Citrus, Sandalwood, Clove,	40 – 60	seedlings/member
		Source: Halarae Founda	Mahogany ution (2014)			
Hands-on	Mar. –			aries' groups had engaged	in the	following hands-on
training in	Nov. 2013			urseries to practice the tech		
producing		operating a nur	sery.			
seedlings			Hands-on Tra	ining Sessions held in the Demonstr	ation Plo	ots
		Topic  Establishment/ of	Suco Talitu	Date of training 2 sessions on Mar. 19 and 20, 2013		No. of participants 22 members in total
		nurseries	Madabeno	6 sessions from Mar. 18 to Apr. 3, 20	)13	87 members in total
		Collection of soils	Talitu	7 sessions on Mar. 13 and Apr. 10, 2		59 members in total
		and sands Sowing of seeds in	Madabeno Talitu	9 sessions from Mar. 20 to Apr. 15, 2 6 sessions on Mar. 13 and Apr. 30, 2		106 members in total 82 members in total
		seedbeds	Madabeno	13 sessions from Mar. 13 to Apr. 10,		194 members in total
		Mixing of soils and	Talitu	5 sessions on Mar. 26 and Apr. 11, 2	013	70 members in total
		filling of mixture into poly bags	Madabeno	9 sessions from Apr. 3 to 17, 2013		130 members in total
		Transplanting of	Talitu	5 sessions on Apr. 15 and 25, 2013		65 members in total
		sprouts Source: Halarae Founda	Madabeno	9 sessions from Apr. 9 to 22, 2013		110 members in total
		that decided to the NGO throu	relocate the	that newly started SPTPP-Meir nurseries build nurseries ons in the 2 <sup>nd</sup> year.	with te	chnical assistance of
Hands-on	Jun. 2013			e beneficiaries' groups had		
training in planting	– Jan. 2014	planting seedling		in the demonstration plots t	o practi	ice the techniques of
seedlings	2014	, ,	•	ining Cossions hold in the Domonst	otion Dla	, to
<i>g.</i>		Topic	Suco	ining Sessions held in the Demonstr Date of training	auon rio	No. of participants
		Compost making	Talitu	20 sessions from Apr. 29 to Jun. 5,		189 members in total
		Maintenance of	Madabeno Talitu	27 sessions from Apr. 30 to Jun. 4, 7 sessions from Jul. 16 to Sep. 18,		292 members in total 59 members in total
		compost	Madabeno	9 sessions from Jul. 8 to 29, 2013		83 members in total
		Delineation of contour lines	Talitu Madabeno	12 sessions from Jun. 25 to Aug. 1: 19 sessions from Jul. 10 to Sep. 30		99 members in total 119 members in total
		Pitting	Talitu	6 sessions from Aug. 21 to Oct. 17		35 members in total
			Madabeno	10 sessions from Jul. 10 to Nov. 27	, 2013	144 members in total
		Refilling with compost application	Talitu Madabeno	7 sessions from Jul. 14 to Oct. 17, 2 9 sessions from Jul. 24 to Nov. 29,		39 members in total 142 members in total
		Planting	Talitu	5 sessions from Nov. 26 to Dec. 9,		81 members in total
		Comes Holones Found	Madabeno	9 sessions from Nov. 25 to 29, 201	3	149 members in total
OJT in operating	Mar. 2013	Source: Halarae Founda  ◆ Aside from the		training sessions, members	of 🌉	THE RESERVE OF THE PROPERTY OF
a nursery and	- Feb.			in the nursery operations a		
planting	2014			ing trees in the demonstration		
seedlings		plots as well as			10	
					1-	
L QUED MD : .	<u> </u>	hono and Talitu			V	

## d. SUFP-MP in Sucos Madabeno and Talitu

1	Month of training	Summary of Activities
Reorganization	Apr. 2013	◆ Like SUFP with CBSE-MP in Sucos Faturasa and Fadabloco, the NGO assisted the
of members of		beneficiaries' groups in the organization of sub-groups under the respective

Topics /	Month of	Summary of A	ctivities			
Techniques	training	1	, 1	1 1 1		1:
the beneficiaries'				ased on the customary col		
groups				e two-step training approach es as listed below.	. A totai o	of 20 sub-groups were
		organized ii	_		_	
		Suco	No. of groups	organization of the Beneficiaries' No. of Sub- groups		No. of members
		Talitu	2 groups	4 sub-groups		embers/sub-group
			8 - 1		Total: 62	members
		Madabeno	8 groups	16 sub-groups		mbers/sub-group
		Source: Halarae	Foundation(201	(3)	1 otal: 20.	3 members
Hands-on	May 2013			SSE-MP in Sucos Faturasa	and Fada	abloc, the NGO held
training in the	– Jun.			s-on training sessions exce		· · · · · · · · · · · · · · · · · · ·
Main	2014			cation of soil conservation		
Demonstration			os Talitu and			
Plots		•	Hands-on	Γraining Sessions held in the Demo	nstration P	lots
		Topic	Suco	Date of training	Justi ution 1	No. of participants
		Compost	Talitu	3 sesions on June 11, 18 and 19, 2		28 members in total
		making	Madabeno Talitu	15 sesions from Jun. 4 to 18, 2013	3	159 members in total
		Maintenance of compost	Madabeno	1 sesions on Jun. 11, 2013 5 sesions from Jul. 11 to Aug. 22,	2013	8 members in total 48 members in total
		Land clearing	Talitu	1 sesions on Sep. 23, 2013	2015	4 members in total
			Madabeno	6 sesions from Oct. 14 and 31v		35 members in total
		Plowing with compost	Talitu Madabeno	1 sesions on Oct. 29, 2013	2012	4 members in total
		application	Madabeno	5 sesions from Oct. 28 and Nov. 7	, 2013	56 members in total
		Slection and	Talitu	1 sesions on Nov. 15, 2013		16 members in total
		sowing of seeds	Madabeno	14 sesions from Nov. 5 to 21, 201	3	190 members in total
		Preparation of liquid fertilizer	Talitu Madabeno	1 sesions on Nov. 27, 2013 5 sesions from Nov. 21 to 25, 201	2	9 members in total 64 members in total
		Planting of	Talitu	1 sesions on Dec. 5, 2013	3	6 members in total
		cassava and	Madabeno	8 sesions from Dec. 3 to 11, 2013		57 members in total
		sweet potato	m ti	1		7 1 : 1
		Sowing seeds of peanut and	Talitu Madabeno	1 sesions on Nov. 19, 2013 7 sesions from Dec. 7, 2013 to	Ian 29	7 members in total 50 members in total
		mung bean	- Tradao erro	2014	, tun 2,	Do members in total
		Weeding and	Talitu	1 sesions on Jan. 23, 2014		6 members in total
		application of liquid fertilizer	Madabeno	5 sesions from Dec. 6, 2013 to 2014	Jan. 23,	38 members in total
		Building of an	Talitu	1 sesions on Feb.27, 2014		7 members in total
		animal pen	Madabeno	6 sesions from Feb.4 to 20, 2014		64 members in total
		Harvsting of	Talitu	1 sesions on Mar. 27, 2014	2014	12 members in total
		maize Post-harvesting	Madabeno Talitu	4 sesions from Mar. 17 to Apr. 7, 1 sesions on May 14, 2014	2014	30 members in total 8 members in total
		1 Ost-hai vesting	Madabeno	4 sesions from Jun.2 to 16, 2014		30 members in total
		Fixing of	Talitu	1 sesions on Jun. 18, 2014		4 members in total
		terraces Source: Halarae Fo	Madabeno (2014)	5 sesions from Jun. 2 to 25, 2014		27 members in total
		Source: Haiarae Fo	unaanon (2014)	•		
		♦ Like in the	e case of S	UFP with CBSE-MP in S	ucos Fatu	ırasa and Fadabloco,
				was added to the 1st year FF		
Hands-on	May 2013			practiced the following		
training in the	– Jun.			tially, only key techniques v		
Sub-group	2014			ation plots, but the NGO arr		
Demonstration				ies introduced in the demo		
Plots		disseminati	on of the tecl	hniques among members of	the benefi	ciaries' groups.
		-		essions held in the Sub-group Dem	onstration P	
		Topic Compost making	Suco	Date of training	2012	No. of participants
		Compost making	Talitu Madabeno	12 sessions from Jun. 17 to Jul. 4, 40 sessions from Jun. 3 to Jul. 25	2013	74 members in total 272 members in total
		Maintenance of		4 sessions from Jun. 17 to Sep. 3		43 members in total
		ompost	Madabeno	15 sessions from Jul. 29 to Sep. 5		89 members in total
		Delineation of	***************************************	4 sessions on Aug. 1 and 7		29 members in total
		contour lines <1 Application of	Madabeno Talitu	29 sessions from Jul. 17 to Sep. 13 3 sessions from Aug. 7 to Sep. 5		183 members in total 34 members in total
		contour compost	Madabeno	22 sessions from Aug. 5 to Oct. 9		119 members in total
		Plowing and	Talitu	10 sessions on Sep. 2 and Oct. 28		54 members in total
		application of	Madabeno	44 sessions from Sep. 5 to Nov. 6		236 members in total
		compost Seed selection	Talitu	9 sessions from Nov. 13 to 21, 20	13	73 members in total
		and sowing	Madabeno	32 sessions from Nov. 5 to 25, 20		251 members in total
		Planting of		4 sessions on Nov. 20 and 25, 201		29 members in total
		hedgerows <2 Preparation of	Madabeno Talitu	16 sessions from Nov. 19 to 27, 2 2 sessions on Nov. 26, 2013	013	100 members in total 14 members in total
		liquid fertilizer	Madabeno	2 sessions on Nov. 26, 2013 1 sessions on Nov. 21, 2013		15 members in total
	I .	1 1 11 11 11 11 11 11 11 11 11 11 11 11		1 22, 2013		

Topics / Techniques	Month of training	Summary of Ac	etivities			
		Planting of other crops <2	Talitu Madabeno		8, 2013 to Jan. 22, 2014 v. 26, 2013 to Jan. 28,	50 members in total 274 members in total
		Maintenance of farm <2	Talitu Madabeno	4 sessions on Jan. 16 ar 16 sessions from Dec. 1		20 members in total 70 members in total
		Making animal pen <2	Talitu Madabeno	N.A. <3 9 sessions from Feb.12	and 20, 2014	N.A <3. 44 members in total
		Harvesting of maize <2	Talitu Madabeno	2 sessions on Apr. 3 and 14 sessions from Feb.12	d 4, 2014	24members in total 87 members in total
		Post-harvesting	Talitu	3 sessions from Mar. 17	7 to Apr. 22, 2014	26 members in total
		delineatio <2 The traini <3 N.A. mear	n of contour lin ng courses were as no data is ave	es using A-frames. e arranged according to ta aiable.		91 members in total akking of A-frames and ii) ers.
Application of	May 2013		case of S	UFP with CBSE-M		loco and Faturasa,
techniques	- Feb. 2014	the sub-grou	ıp demonstr	ation plots to their	own farms. Accordi	at they practiced in ing to the NGO, all
		contour con	posting tecl	hnique to their own	farms, while 204 r	ost and applied the members or 88% of
		the members	•	organization of the Bene	onal fertilization to r ficiaries' Groups	naize.
		Suco No ber		Compost making	Application of contour compost	Application of liquid fertilizer
		Talitu	52	52 / 52 (100%)	52 / 52 (100%)	52 / 52 (100%)
		Madabeno	180	180 / 180 (100%)	180 / 180 (100%)	152/ 180 (84%)
		Grand total	232	232 / 232 (100%)	232 / 232 (100%)	204/ 232 (88%)
	- (2015)	Source: Halarae I	Foundation (20)	14)		

# Results of the Second (2<sup>nd</sup>) Year FFSs

The results of the 2<sup>nd</sup> year FFSs are summarized below

	Summa	ry of Resu	ults of th	e 2 <sup>nd</sup> Yeaı	FFSs and	Technica	l Assistan	ce	
Micro Program	Suco	Results of	f the Acti	vities					
SUFP with CBSE-MP	Faturasa Fadabloco	sub-gı FFSs. ◆ The b sub-gı	roup deme eneficiarie roup deme olumes of	es groups honstration page	plots were of arvested main plots. The for ed in the der	developed ize, peanut, ollowing tal nonstration	•	through the	he 2 <sup>nd</sup> year he main and
			Har	vest volume a	t the demonstra	ation plots for	SUFP with CB	SE-MP	
		a. Main den	nonstration   No. of		mproved)	D	(Improved)	D. J.D.,	(unit: kg) nn (Local)
		Suco	plots	Sown Seed	Harvest	Sown Seed	Harvest	Sown Seed	Harvest
		Faturasa	6 plots	12.4	437.0	10.0	27.0	9.0	74.0
		Fadabloco	4 plots	7.5	414.2	8.0	145.1	4.0	98.0
		Total	10 plots	19.9	851.2	18.0	172.1	13.0	172.0
		b. Sub-grou							(unit: kg)
		Suco	No. of		mproved)		[Improved]		ın (Local)
			plots	Sown Seed	Harvest	Sown Seed	Harvest	Sown Seed	Harvest
		Faturasa	15 plots	25.0	742.0	12.0	5.0	15	107.6
		Fadabloco	16 plots	16.2	682.8	16.0	153.0	16.0	256.0
		Total	31 plots	41.2	1,424.8	28.0	158.0	31.0	363.6
		was e applic (harve	neral, the payeeted to eation of ests) as con-	productivity be or rat compost, mpared to t es' groups v	her lower dalthough so the national a were able to	ue to the f me demon average. save substa	nstration plot luctuated rai stration plot antial amoun shown below	infalls and ts got high t of seeds of	insufficient ner outputs

Micro Program	Suco	Results of the	Activities					
			Volume	of Seeds stored f	for Croppin	g in 2014/201	5	( '. 1 )
		Suco	No. of plots	Maize (Impro	oved) P	eanuts (Impro	oved) Peanu	(unit: kg) its (Local)
		Faturasa	6 plots	167.0		18.0	oveu) Teamu	22.0
		Fadabloco	4 plots	175.		94.0		32.0
		Total	10 plots	342.	.8	112.0		54.0
IC/LD MD	E 1.11	Source: USC		1 1.				1 1 . 6
IG/LD-MP	Fadabloco	US\$ 542.5	n groups that had from the sales o	f cassava chip	s as of th	e end of Fe	ebruary 2014	
			ich women grou				o from the s	ales of dried
CDTDD MD	Madabasa		to and repair of c				::_,	:- G
SPTPP-MP	Madabeno Talitu	Madabeno	and Talitu.	•				•
			700 seedlings, n had been raised				and 17,772	seedings in
			No. of Sec	edlings produced	d to Membe	ers in 2013/201	14 (Unit: 1	Pcs.)
		Speci		Madabeno	Ta	litu	Total	
		Ramb		1,050		735	1,785	
		Longa		1,177	1	537 983	1,714	<del> </del>
	1	Orang Citrus		1,635 964		870	2,618 1,834	
			lwood	4,037		2,119	6,156	
		Clove		2,920		2,954	5,874	
		Maho		2,773		434	3,207	
		Teak		2,062		291	2,353	
		Salak		0		46	46	
		Casua	rina	1,154		0	1,154	
		Total	: Halarae Foundation	17,772		3,960	26,732	
		◆ Out of the						
		seedlings in of the bene	n Talitu and 14, eficiaries' groups surseries for distr	795 seedlings in both villa	s in Mada ges for pi 14/2015 a	lbeno, were lanting. Ab as those we	e shared amo out 3,360 se are still too sr	ong members edlings were mall to plant.
		seedlings in of the bene	n Talitu and 14, eficiaries' groups surseries for distr No. of Se	795 seedlings in both villa ribution in 20	s in Mada ges for p 14/2015 a by Member	lbeno, were lanting. Ab as those we	e shared amo out 3,360 se are still too sr	ong members edlings were mall to plant.
		seedlings in of the bene left in the n	n Talitu and 14,' ficiaries' groups turseries for distr  No. of Se  utan	795 seedlings in both villagribution in 20 redlings planted Talitu 735	s in Mada ges for p 14/2015 a by Member	abeno, were lanting. Abeas those we rs in 2013/201  abeno  1,080	e shared amo out 3,360 se are still too si 4 (Unit: Total	ang members edlings were mall to plant.
		seedlings in of the bene left in the n  Specient Ramb	n Talitu and 14,' ficiaries' groups turseries for distr  No. of Se  tutan an	795 seedlings in both villa; ribution in 20 seedlings planted Talitu 735 537	s in Mada ges for p. 14/2015 a by Member	abeno, were lanting. Ab as those we rs in 2013/201  abeno	e shared amo out 3,360 se ere still too sr 4 (Unit: Total 1,664 (2	ang members edlings were mall to plant.  Pes.)
		seedlings in of the bene left in the n  Speci Ramb Longe Orang	n Talitu and 14, ficiaries' groups turseries for distributes for distributes for the No. of Sees tutan turn tee.	795 seedlings in both villa; ribution in 20 seedlings planted Talitu 735 537 583 (140)	s in Mada ges for p. 14/2015 a by Member	abeno unit (100) (	e shared amo out 3,360 se ere still too sr 4 (Unit: Total 1,664 (2,124 (24)	eng members edlings were nall to plant.  Pcs.)
		seedlings in of the bene left in the n  Speci Ramb Longs Orang Citrus	n Talitu and 14, ficiaries' groups turseries for distributes f	795 seedlings in both villa; ribution in 20 seedlings planted to Talitu 735 537 583 (140) 870	s in Mada ges for p. 114/2015 a by Member	beno, were lanting. Ab as those we rs in 2013/201  abeno 1,080 1,127 (27) 541 (106) 876 (41)	e shared amo out 3,360 se ere still too sr 4 (Unit: Total 1,664 (2,124 (24, 1,746 (4, 1)46 (4	ng members edlings were nall to plant.  Pcs.)  115 127) 146) 141)
		seedlings in of the bene left in the n  Speci Ramb Longs Orang Citrus Sanda	n Talitu and 14,' ficiaries' groups turseries for distr  No. of Se  es  utan tn  ge illwood	795 seedlings in both villa; ribution in 20 seedlings planted 1 Talitu 735 537 583 (140) 870 1,361 (758)	s in Mada ges for p 14/2015 a by Member Mada	beno, were lanting. Ab as those we rs in 2013/201  abeno 1,080 1,127 (27) 541 (106) 876 (41) 06 (2,244)	e shared amo out 3,360 se ere still too sr 4 (Unit: Total 1,864 (2 2,124 (2 1,746 (4 2,867 (3,0)	ng members edlings were nall to plant.  Pcs.)  115 127) 146) 111) 132)
		seedlings in of the bene left in the n  Speci Ramb Longs Orang Citrus Sanda Clove	n Talitu and 14, ficiaries' groups turseries for distriction No. of Security N	795 seedlings in both villa; ribution in 20 seedlings planted   Talitu   735   537   583 (140)   870   1,361 (758)   2,945	s in Mada ges for p 14/2015 a by Member Mada	beno, were lanting. Ab as those we rs in 2013/201  abeno 1,080 1,127 (27) 541 (106) 876 (41) 06 (2,244) 2,790 (40)	e shared amo out 3,360 se re still too si 4 (Unit: Total 1,664 (2 2,124 (2 1,746 (4 2,867 (3,0) 5,744 (4	eng members edlings were mall to plant.  Pes.)  115  177  146  111)  132)
		seedlings in of the bene left in the notes and left in the notes and left in the notes are left in the notes and left in the notes a	n Talitu and 14, ficiaries' groups turseries for distriction No. of Security N	795 seedlings in both villa; ribution in 20 redlings planted    Talitu	s in Mada ges for p 14/2015 a by Member Mada	beno, were lanting. Ab as those we rs in 2013/201  abeno 1,080 1,127 (27) 541 (106) 876 (41) 2,790 (40) 2,758	e shared amo out 3,360 se ere still too sr 4 (Unit: Total 1,864 (2 2,124 (2 1,746 (4 2,867 (3,0)	eng members edlings were mall to plant.  Pes.)  115  127) 146) 141) 182)
		seedlings in of the bene left in the n  Speci Ramb Longs Orang Citrus Sanda Clove	n Talitu and 14, ficiaries' groups aurseries for distriction No. of Sees utan an au	795 seedlings in both villa; ribution in 20 seedlings planted   Talitu   735   537   583 (140)   870   1,361 (758)   2,945	s in Mada ges for p 14/2015 a by Member Mada	beno, were lanting. Ab as those we rs in 2013/201  abeno 1,080 1,127 (27) 541 (106) 876 (41) 06 (2,244) 2,790 (40)	e shared amo out 3,360 se re still too sr 4 (Unit: Total 1,864 (2 2,124 (2- 1,746 (4 2,867 (3,0) 5,744 (4 3,1 2,2	eng members edlings were mall to plant.  Pes.)  115  127) 146) 141) 182)
		seedlings in of the bene left in the number of the seedlings in the number of the seedlings in the number of the seedlings in the seedlings of	n Talitu and 14, ficiaries' groups aurseries for distriction of Sees utan an au tree is alwood in gany	795 seedlings in both villa; ribution in 20 redlings planted   Talitu   735   537   583 (140)   870   1,361 (758)   2,945   434   291   0   46	s in Mada ges for p 14/2015 a by Member Mada	beno, were lanting. Ab as those we rs in 2013/201  abeno	e shared amo out 3,360 se re still too sr 4 (Unit: Total 1,864 (2 2,124 (2- 1,746 (4 2,867 (3,0) 5,744 (4 3,1 2,2	eng members edlings were mall to plant.  Pes.)  115  127) 146) 141) 182) 140) 192 154
		seedlings in of the bene left in the number of the seedlings in the number of the seedlings	n Talitu and 14, ficiaries' groups aurseries for distriction of Sees utan an au tree is alwood in gany	795 seedlings in both villa; ribution in 20 seedlings planted seedlings seedling	s in Mada ges for p 14/2015 a by Member Mada	beno, were lanting. Ab as those we rs in 2013/201  abeno	e shared amo out 3,360 se re still too sr 4 (Unit: Total 1,864 (2 2,124 (2- 1,746 (4 2,867 (3,0) 5,744 (4 3,1 2,2	eng members edlings were mall to plant.  Pcs.)  115  27)  146)  111)  122)  140)  192  154  154  146
		seedlings in of the bene left in the number of the bene left in the number of the seedless of	n Talitu and 14,' ficiaries' groups surseries for distr No. of Se  state utan in	795 seedlings in both villa; ribution in 20 redlings planted   Talitu   735   537   583 (140)   870   1,361 (758)   2,945   434   291   0   46   7,802 (898)   n (2014)   ed in 2013/20 in the nurserie ved seedlings	s in Madages for p. 14/2015 a by Member Madages for p. 14/2015 a by Member Madages for p. 14,79	beno, were lanting. Ab as those we rs in 2013/201  abeno	e shared amo out 3,360 se for still too sr 4 (Unit: Total 1,864 (2 2,124 (2- 1,746 (4 2,867 (3,0) 5,744 (4- 3,1 22,587 (3,35 s' groups als	eng members edlings were mall to plant.  Pes.)  15  27) 160 110 192 154 154 166 160  o distributed  by applying
SUFP-MP	Madabeno	seedlings in of the bene left in the numbers of the	n Talitu and 14, ficiaries' groups turseries for distriction of Security No. o	795 seedlings in both villa; ribution in 20 redlings planted in Talitu  735 537 583 (140) 870 1,361 (758) 2,945 434 291 0 46 7,802 (898) n (2014) ed in 2013/20 n the nurserie ved seedlings ctied in the deficition in 20 in the deficition in the deficition in the deficition in 20 in the deficition in the deficition in 20 in the deficition in the deficiti	s in Madages for p. 14/2015 a by Member Madages for p. 14/2015 a by Member Madages for p. 14,79  014, the best from 20 as prepared emonstra veloped a	beno, were lanting. Ab as those we rs in 2013/201  abeno	e shared amo out 3,360 se re still too sr  4  (Unit: Total  1,8 1,664 (2 2,124 (2 1,746 (4 2,867 (3,0) 5,744 (4 3,1 22,587 (3,35 s' groups als s for planting with technical	ng members edlings were nall to plant.  Pes.)  15  17) 16) 19 19 10  10  11  10  11  11  11  12  14  15  14  15  15  15  16  16  17  18  19  19  19  19  19  19  19  19  19
SUFP-MP	Madabeno Talitu	seedlings in of the bene left in the note that he had the seedlings in of the bene left in the note had been left in the n	n Talitu and 14, ficiaries' groups aurseries for distriction with the yields of man anational average monstration ple of compost wer Harvest volume as	795 seedlings in both villa; ribution in 20 redlings planted in 20 redlings redlin	s in Madages for p. 14/2015 a by Member Madages for p. 14/2015 a by Member Madages for p. 14/2015 a by Member Madages for p. 14,79  014, the best from 20 a prepared emonstra veloped a fin and subject than ranfalls, as the mages from 20 a prepared emonstra fin and subject than ranfalls, as the mages from 20 a prepared emonstra fin and subject than ranfalls, as the mages from 20 a prepared emonstra fin and subject than ranfalls, as the mages from 20 a prepared emonstra fin and subject than ranfalls, as the mages from 20 a prepared emonstra from 20 a prepared emonstra fin and subject than ranfalls, as the mages from 20 a prepared emonstra fr	beno, were lanting. Ab as those we say in 2013/201  abeno	e shared amore out 3,360 se are still too si 4  (Unit: Total 1,864 (2, 2,124 (2, 2, 1,746 (4, 3,1 2, 2, 1,1) 22,587 (3,35 (3,0) 3, 35 (3,0) 3, 36 (3,0) 3, 37 (3,0) 3, 37 (3,0) 4, 37 (3,0) 5,744 (4, 3,1 3,1 3, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	ng members edlings were nall to plant.  Pes.)  15  17  16  19  19  254  46  60  o distributed  by applying assitance of elemonstration emonstration  plots were as of the main
SUFP-MP		seedlings in of the bene left in the note that he had it is source.  In addition those that he had the techniq the NGO.  Members of plots over plots. Generally, low as the and sub-de application  a. Main demonstration of the had he had he had had he had had he had he had he had had he had had he had had he had he had he had had had had he had	Talitu and 14, ficiaries' groups aurseries for distriction of Section 14, for the section of the beneficiae the course of the beneficiae the course of the section of compost were auton plots of Maize (I	795 seedlings in both villa; ribution in 20 redlings planted bedlings planted bedlings planted bedlings planted bedlings planted bedlings from the from the nurserie ved seedlings citied in the decision of the planted bedlings be	s in Madages for p. 14/2015 a by Member  Mada  1, 1, 50  14,79  014, the best from 20 a prepared emonstra  veloped a FSs in addition and sull ower than ranfalls, as the mation plots for Red be	beno, were lanting. Ab as those we rs in 2013/201  abeno	e shared amore out 3,360 sectors still too signs of the still too si	ng members edlings were mall to plant.  Pes.)  115  127)  140)  192  154  146  16)  o distributed  by applying assitance of demonstration emonstration  plots were as of the main insufficient  (unit: kg)  Its (Local)
SUFP-MP		seedlings in of the bene left in the note that he had left in the note had been left in the note had left in the note ha	Talitu and 14, ficiaries' groups aurseries for district No. of Section 14, ficiaries' groups aurseries for district No. of Section 14, ficiaries' groups aurseries for district No. of Section 14, ficiaries aurseries for district No. of Section 14, ficiaries for district No. of Section 14, ficiaries for district and 14, ficiaries for district No. of Section 14, fici	795 seedlings in both villa; ribution in 20 redlings planted beedlings planted beedlings planted beedlings planted beedlings planted beedlings from 1,361 (758) 2,945 434 291 0 46 7,802 (898) or (2014) ed in 2013/20 on the nurserie ved seedlings actied in the decision of the mainer or rather loopts. Unstable e considered at the demonstrat mproved beedlings considered at the demonstrat mproved been considered at the demonstrat mproved be	s in Madages for p. 14/2015 a by Member  Madi  1, 1, 50  14,79  014, the best from 20 a prepared emonstra  veloped a a system and sullower than ranfalls, as the mation plots for the control of the cont	beno, were lanting. Ab as those we rs in 2013/201    abeno	c shared amore out 3,360 se are still too si 4  (Unit: Total 1,864 (2, 1,24 (2, 1,746 (4, 2,867 (3,0) 5,744 (4, 3,1) 2,2, 1,1)  22,587 (3,35 s' groups also for planting with technical percept some fertility, and of low yield. CBSE-MP  Peant Volume o Seed	ng members edlings were mall to plant.  Pes.)  115  127)  146)  149  154  154  154  166)  o distributed by applying assitance of demonstration emonstration elots were as of the main insufficient  (unit: kg)  Its (Local)  Harvest
SUFP-MP		seedlings in of the bene left in the note that he had it is source.  In addition those that he had the techniq the NGO.  Members of plots over plots. Generally, low as the and sub-de application  a. Main demonstration of the had he h	Talitu and 14, ficiaries' groups aurseries for district and 14, ficiaries' groups aurseries for district and the second and the second and been grown in the second and the practical aursers who receives that they practically find the beneficiate the course of the second aursers were districted and the second aursers were districted aursers were districted aursers were districted aursers were districted aursers with the second aursers were districted aursers with the	795 seedlings in both villa; ribution in 20 redlings planted bedlings planted bedlings planted bedlings planted bedlings planted bedlings from the from the nurserie ved seedlings citied in the decision of the planted bedlings be	s in Madages for p. 14/2015 a by Member Madages for p. 14/2015 a by Member Madages for p. 14/2015 a by Member Madages for p. 14,79 and 14,79 and 14,79 and 14,79 are form 20 a prepared emonstra veloped a a system and sulpower than ranfalls, as the mation plots for Notume of No	beno, were lanting. Ab as those we rs in 2013/201  abeno	c shared amore out 3,360 se are still too si 4  (Unit: Total 1,864 (2, 1,24 (2) 1,746 (4, 2,867 (3,0) 5,744 (4, 3,1) 22,587 (3,35 (3,0) 5,744 (4, 3,1) 22,587 (3,35 (3,5) 6) c so groups also a for planting with technical constration percept some fertility, and flow yield. CBSE-MP  Peamer Volume of Seed 0.5	ng members edlings were mall to plant.  Pes.)  115  127)  146)  149  154  146  16)  o distributed  by applying assitance of demonstration emonstration  plots were as of the main insufficient  (unit: kg)  Its (Local)

Micro Program	Suco	Results of	the Acti	vities					
		b. Sub-group	o demonstra	ation plots					(unit: kg)
		Suco	No. of	Maize (In	nproved)	Red Bear	ı (Local)	Soy beans	s (Local)
			plots	Volume of Seed	Harvest	Volume of Seed	Harvest	Volume of Seed	Harvest
		Talitu	4 plots	4.0	90.0			-	-
		Madabeno	16 plots	16.0	708.0	16.0	32.0	8.0	nil
		Total	20 plots	20.0	798.0	16.0	32.0	8.0	nil
			eneficiari	es groups s e for next cro	opping in 2	stored about 014/2015 as stored for Crop	shown below	v.	arvests of
		Suco	Main De	monstration pl	ots	Sub-group demo	onstration plot	s Peanuts	(Local)
		Talitu		10.0/1 plot		15.0/4	plots		25.0
		Madabeno		49.0/5 plots		197.0/1	6 plots		246.0
		Total		59.0/6 plots		212.0/2	0 plots		271.0
		Source: Hala	rae Founda	tion (2014)		•	•	· · · · ·	

#### (7) Participatory Monitoring and Evaluation of the Micro Programs

Like in the case of the 1<sup>st</sup> year, the beneficiaries' groups and women groups evaluated the training courses as well as the results of the 2<sup>nd</sup> year FFSs in February/March 2014. They also discussed whether or not they would like to continue the micro program activities as the 3<sup>rd</sup> year FFSs. All the beneficiaries' groups showed their intetion to continue the same activities as they judged that the activities introduced by the micro programs were effective in improving their livelihoods, although the maicro program were supposed to be implemented for only two (2) years in the first batch sucos in the originak work plans. It was, therefore, agreed by the beneficiaries' groups and the JICA Project Team as well as the NGOs that the groups would continue the micro program activities on the following conditions:

- i) Seedling production under SPTPP-MP in Sucos Talitu and Madabeno should be continued with the financial assitance from the GoTL by using the scheme named "the Community Development Fund for Reforestation."
- ii) The 3<sup>rd</sup> year FFSs of SUFP with CBSE-MP and SUFP-MP in the four sucos (Sucos Faturasa, Fadabloco, Madabeno, and Talitu) should be continued with limited support from the NGOs.
- iii) Livelihood activities effective in generating cash income or improving local livelihoods should be continued on the initiative of the women groups with technical assistance of the NGO.

The groups developed annual work plans of the micro programs in 2014/2015 along the lines given above.

# (8) Third (3<sup>rd</sup>) Year FFSs and Technical Assistance

The activities carried out in the course of the 3<sup>rd</sup> year FFSs in the target sucos are summarized below.

#### Summary of the 3<sup>rd</sup> YearTechnical Assistance

#### a. SUFP with CBSE-MP in Sucos Faturasa and Fadabloco

Topics /	Month of	Summary of Activities
Techniques	training	
FFSs held in the	May 2014	◆ Members of the beneficiaries' groups had engaged another round of FFSs in the
Main	– Jun.	main and sub-group demonstration plots as shown below.
Demonstration	2015	
Plots and		

Techniques	Month of training	Summary of Activ	ities		
Sub-group	training	F	ollow-up FFS	Sessions held in Suco Faturasa and Fadabloc	0
Demonstration		a. Main Demonstration	-	Sessions here in Suco I acturate and I admisso	·
Plots		Topic	Suco	Date of Session	No. of Participants
		Compost making	Faturasa	12 sesssions from May 8 to 16, 2014	254 members in total
			Fadabloco	8 sesssions from May 8 to 27, 2014	222 members in tota
		Maintenance of	Faturasa	12 sesssions from Jun. 23 to Aug. 20, 2014	255 members in tota
		compost	Fadabloco	8 sesssions from Jun. 26 to Aug. 6, 2014	215 members in tota
		Plowing and	Faturasa	16 sesssions from Aug. 27 to Oct. 16, 2014	325 members in tota
		compost application Selection and sowing	Fadabloco Faturasa	14 sesssions from Sep. 9 to Oct. 17, 2014 6 sesssions from Nov. 11 to 14, 2014	437 members in total
		of seeds	Fadabloco	4 sessions on Nov. 24 & 25, 2014	144 members in tot
		Production of liquid	Faturasa	6 sessions on Dec. 9, 10, and 11, 2014	125 members in tot
		fertilizer	Fadabloco	4 sessions from Dec. 1 to 5, 2014	126 members in tot
		Farm maintenance	Faturasa	24 sesssions from Jan. 6 to Feb. 16, 2015	500 members in tot
		(1st and 2nd)	Fadabloco	18 sesssions from Dec. 16, 2014 to Feb. 11, 2015	491 members in tot
		Planting of cassava	Faturasa	6 sesssions on Jan. 20, 2015	123 members in tot
		and sweet potato	Fadabloco	6 sesssions from Jan. 16 to 30, 2015	128 members in tot
		Harvesting of red	Faturasa	2 sesssions on Feb. 17, 2015	35 members in total
		beans	Fadabloco	4 sesssions from Feb. 13 to 20, 2015	104 members in tot
		Planting of green	Faturasa	6 sesssions from Feb. 17 to 28, 2015	116 members in tot
		manure	Fadabloco	4 sessions from Feb.13 to 20, 2015	104 members in tot
		Fixing of terraces	Faturasa Fadabloco	6 sesssions from Mar. 3 to 6, 2015 7 sesssions from Jan. 27 to Mar. 4, 2015	77 members in total
		Fixing of terraces	Faturasa	6 sessions from Mar. 3 to 6, 2015	77 members in total
		Tixing of terraces	Fadabloco	7 sesssions from Jan. 27 to Mar. 4, 2015	100 members in tot
		Fixing of terraces	Faturasa	6 sesssions from Mar. 3 to 6, 2015	77 members in total
			Fadabloco	7 sesssions from Jan. 27 to Mar. 4, 2015	100 members in tot
		Harvesting of maize	Faturasa	6 sesssions from Apr. 13 to 17, 2015	120 members in tot
			Fadabloco	4sesssions from Apr. 8 to 15, 2015	93 members in tota
		b. Sub-group Demonstra Topic	ation Plots Suco	Date of Session	No. of Participant
		Compost making	Faturasa	30 sesssions from May 5 to 29, 2014	215 members in total
			Fadabloco	32 sesssions from May 9 to Jun. 9, 2014	216 members in tot
		Maintenance of	Faturasa	30 sesssions from Jun. 24 to Aug. 20, 2014	255 members in tot
		Compost <2	Fadabloco	32 sesssions from Jul. 2 to Aug. 8, 2014	234 members in tot
		Plowing	Faturasa	37 sesssions from Sep. 5 to 27, 2014	320 members in tot
			Fadabloco	31 sesssions from Sep. 1 to 23, 2014	339 members in tot
		Building of an anima	Faturasa	No session held	
	1	non		0	
		pen	Fadabloco	9 sessions from Sep. 1 to 23, 2014	
		Application of	Faturasa	15 sesssions from Oct. 15 to 23, 2014	130 members in tot
		Application of contour compost	Faturasa Fadabloco	15 sesssions from Oct. 15 to 23, 2014 16 sesssions from Oct. 16 to 25	130 members in tot 128 members in tot
		Application of	Faturasa	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16,	130 members in tot 128 members in tot 283 members in tot
		Application of contour compost Farm maintenance	Faturasa Fadabloco Faturasa	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015	130 members in tot 128 members in tot 283 members in tot 141 members in tot
		Application of contour compost  Farm maintenance (1 <sup>st</sup> and 2 <sup>nd</sup> )	Faturasa Fadabloco Faturasa Fadabloco	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015	130 members in tot 128 members in tot 283 members in tot 141 members in tot 57 members in tota
		Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red	Faturasa Fadabloco Faturasa Fadabloco	15 sesssions from Oct. 15 to 23, 2014 16 sesssions from Oct. 16 to 25 45 sesssions from Jan. 7 to Feb. 13, 2015 37 sesssions from Dec. 27, 2014 to Feb. 16, 2015 5 sesssions from Feb.17 to 19, 2015	130 members in tot 128 members in tot 283 members in tot 141 members in tota 57 members in tota 87 members in tota
		Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens	Faturasa Fadabloco Faturasa Fadabloco Faturasa Fadabloco	15 sesssions from Oct. 15 to 23, 2014 16 sesssions from Oct. 16 to 25 45 sesssions from Jan. 7 to Feb. 13, 2015 37 sesssions from Dec. 27, 2014 to Feb. 16, 2015 5 sesssions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015	130 members in tot 128 members in tot 283 members in tot 141 members in tota 57 members in tota 87 members in tota 140 members in tot
		Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit	Faturasa Fadabloco Faturasa Fadabloco Faturasa Fadabloco Faturasa Fadabloco Faturasa	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015	130 members in tot 128 members in tot 283 members in tot 141 members in tota 87 members in tota 140 members in tot 118 members in tot 110 members in tot
		Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings  Fixing of terraces	Faturasa Fadabloco Faturasa Fadabloco Faturasa Fadabloco Faturasa Fadabloco Faturasa Fadabloco Faturasa Fadabloco	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015	130 members in tot. 128 members in tot. 283 members in tot. 141 members in tot. 57 members in tota. 87 members in tota. 140 members in tot. 118 members in tot. 110 members in tot. 89 members in tota.
		Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings	Faturasa Fadabloco Faturasa	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015 15 sessions from Apr. 14 to 17, 2015	130 members in total 128 members in total 283 members in total 141 members in total 87 members in total 87 members in total 140 members in total 118 members in total 110 members in total 89 members in total 125 members
		Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings  Fixing of terraces  Harvesting of maize	Faturasa Fadabloco	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015 15 sessions from Apr. 14 to 17, 2015 16 sessions on Apr. 13 to 17, 2015	130 members in total 128 members in total 283 members in total 141 members in total 87 members in total 87 members in total 140 members in total 118 members in total 110 members in total 89 members in total 125 members
on lines in C	M 2014	Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings  Fixing of terraces  Harvesting of maize  Source: RAEBIA Timo	Faturasa Fadabloco	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015 15 sessions from Apr. 14 to 17, 2015 16 sessions on Apr. 13 to 17, 2015	130 members in tot. 128 members in tot. 283 members in tot. 141 members in total 87 members in total 87 members in tot. 140 members in tot. 118 members in tot. 110 members in tot. 89 members in tot. 125 members in tot. 131 members in tot.
	May 2014	Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings  Fixing of terraces  Harvesting of maize  Source: RAEBIA Timo  The members o	Faturasa Fadabloco Tester (2015) f the benefit	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015 15 sessions from Apr. 14 to 17, 2015 16 sessions on Apr. 13 to 17, 2015	130 members in tot. 128 members in tot. 283 members in tot. 141 members in total 87 members in total 87 members in tot. 140 members in tot. 118 members in tot. 110 members in tot. 89 members in tot. 125 members in tot. 131 members in tot.
echniques to	– Jun.	Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings  Fixing of terraces  Harvesting of maize  Source: RAEBIA Timo  ↑ The members of practiced in the	Faturasa Fadabloco	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015 15 sessions from Apr. 14 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 iciaries groups had applied the same the main and sub-group demonstration	130 members in tot. 128 members in tot. 128 members in tot. 128 members in tot. 141 members in tot. 87 members in tot. 140 members in tot. 118 members in tot. 110 members in tot. 125 members in tot. 121 members in tot. 131 members in tot. 131 members in tot.
Cechniques to	-	Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings  Fixing of terraces  Harvesting of maize  Source: RAEBIA Timo  ↑ The members of practiced in the farms with technical process.	Faturasa Fadabloco Faturasa Fatabloco Faturasa Fata	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 15 FSs on Feb. 4 & Mar. 6, 2015 15 sessions from Apr. 14 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 17 sessions from Apr. 14 to 17, 2015 18 sessions on Apr. 18 to 17, 2015 19 FFS on Feb. 4 & Mar. 6, 2015 19 FFS on Feb. 4 & Mar. 6, 2015 19 FFS on Feb. 4 & Mar. 6, 2015 10 Sessions on Apr. 13 to 17, 2015 11 Sessions on Apr. 13 to 17, 2015 12 Sessions on Apr. 13 to 17, 2015 13 Sessions on Apr. 13 to 17, 2015 14 Sessions on Apr. 13 to 17, 2015 15 Sessions on Apr. 13 to 17, 2015	130 members in tot. 128 members in tot. 128 members in tot. 141 members in total 87 members in total 87 members in tot. 140 members in tot. 118 members in tot. 110 members in tot. 125 members in tot. 121 members in tot. 121 members in tot. 131 members in tot. 131 members in tot. 131 members in tot. 131 members in tot.
Cechniques to	– Jun.	Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings  Fixing of terraces  Harvesting of maize  Source: RAEBIA Timo  The members of practiced in the farms with tech 312 members have	Faturasa Fadabloco rester (2015) f the benefit FFSs in the inical assistatad already a	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015 15 sessions from Apr. 14 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 iciaries groups had applied the same the main and sub-group demonstration	130 members in tot. 128 members in tot. 128 members in tot. 141 members in total 87 members in total 87 members in tot. 140 members in tot. 118 members in tot. 110 members in tot. 125 members in tot. 121 members in tot. 121 members in tot. 131 members in tot. 131 members in tot. 131 members in tot. 131 members in tot.
_* *	– Jun.	Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings  Fixing of terraces  Harvesting of maize  Source: RAEBIA Timo  The members of practiced in the farms with tech 312 members have	Faturasa Fadabloco rester (2015) f the benefit FFSs in the inical assistatad already a	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 15 FSs on Feb. 4 & Mar. 6, 2015 15 sessions from Apr. 14 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 17 sessions from Apr. 14 to 17, 2015 18 sessions on Apr. 18 to 17, 2015 19 FFS on Feb. 4 & Mar. 6, 2015 19 FFS on Feb. 4 & Mar. 6, 2015 19 FFS on Feb. 4 & Mar. 6, 2015 10 Sessions on Apr. 13 to 17, 2015 11 Sessions on Apr. 13 to 17, 2015 12 Sessions on Apr. 13 to 17, 2015 13 Sessions on Apr. 13 to 17, 2015 14 Sessions on Apr. 13 to 17, 2015 15 Sessions on Apr. 13 to 17, 2015	130 members in tot. 128 members in tot. 128 members in tot. 141 members in total 87 members in total 87 members in tot. 140 members in tot. 118 members in tot. 110 members in tot. 125 members in tot. 121 members in tot. 121 members in tot. 131 members in tot. 131 members in tot. 131 members in tot. 131 members in tot.
Techniques to	– Jun.	Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings  Fixing of terraces  Harvesting of maize  Source: RAEBIA Timo  ◆ The members of practiced in the farms with tech 312 members had a. Compost members of the compost members of the compost members of the compost members had a. Compost members of the compost members had a. Compost members of the compost members had a. Compost members of the compost members had a compost members of the compost members had a composite	Faturasa Fadabloco re-Leste (2015) f the benefit FFSs in the inical assistatad already anaking	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015 15 sessions from Apr. 14 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 17 sessions from Apr. 14 to 17, 2015 18 sessions on Apr. 18 to 17, 2015 19 FFS on Feb. 4 & Mar. 6, 2015 19 FFS on Feb. 4 & Mar. 6, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015 10 sessions on Apr. 13 to 17, 2015 11 sessions on Apr. 13 to 17, 2015 12 sessions on Apr. 13 to 17, 2015 13 sessions on Apr. 13 to 17, 2015 14 sessions on Apr. 13 to 17, 2015	130 members in tota 128 members in tota 128 members in tota 141 members in total 87 members in total 140 members in total 140 members in total 110 members in total 125 members in total 121 members in total 121 members in total 122 members in total 131 members in total 131 members in total 131 members in total 131 members in total
Cechniques to	– Jun.	Application of contour compost  Farm maintenance (1st and 2nd)  Harvesting of red bens  Planting of fruit seedlings  Fixing of terraces  Harvesting of maize  Source: RAEBIA Timo  The members of practiced in the farms with tech 312 members have	Faturasa Fadabloco Faturasa Fatabloco Faturasa Fata	15 sessions from Oct. 15 to 23, 2014 16 sessions from Oct. 16 to 25 45 sessions from Jan. 7 to Feb. 13, 2015 37 sessions from Dec. 27, 2014 to Feb. 16, 2015 5 sessions from Feb.17 to 19, 2015 12 sessions on Feb. 17 and 26, 2015 15 sessions from Feb.17 to 27, 2015 16 sessions on Feb. 23 & 27, 2015 15 sessions from Mar. 10 to 13, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015 15 sessions from Apr. 14 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 16 sessions on Apr. 13 to 17, 2015 17 sessions from Apr. 14 to 17, 2015 18 sessions on Apr. 18 to 17, 2015 19 FFS on Feb. 4 & Mar. 6, 2015 19 FFS on Feb. 4 & Mar. 6, 2015 19 FFSs on Feb. 4 & Mar. 6, 2015 10 sessions on Apr. 13 to 17, 2015 11 sessions on Apr. 13 to 17, 2015 12 sessions from Bar. 14 to 17, 2015 13 sessions on Apr. 14 to 17, 2015 14 sessions on Apr. 15 to 17, 2015 15 sessions from Apr. 16 to 17, 2015 16 sessions on Apr. 17 to 17, 2015 17 sessions from Apr. 18 to 17, 2015 18 sessions from Apr. 19 to 17, 2015 19 FFSs on Feb. 19 to 27, 2015 19 FFSs on Feb. 28 to 27, 2015 19 FFSs on Feb. 29 to 27, 2015 19 FFSs on Feb. 20 to 27, 2015 19 FFSs on Feb. 20 to 27, 2015 19 FFSs on Feb. 29 to 27, 2015 19 FFSs on Feb. 20 to 27, 2015 10 to 27, 2015 10 to 27, 2015 11 to 27, 2015 12 to 27, 2015 12 to 27, 2015 13 to 27, 2015 14 to 27, 2015 15 to 27, 2015 16 to 27, 2015 16 to 27, 2015 17 to 27, 2015 18 to 27, 2015 19 FFSs on Feb. 20 to 27, 2015 10 to 27, 2015 10 to 27, 20	n plots to their or March 2015, all t

## b. IG/LD-MP in Suco Fadabloco

Topics /	Month of	Summary of Activities
Techniques	training	
General	Apr. 2014	◆ The women groups decided to continue the following activities to earn cash incme
	– Jun.	on their own initiative.
	2015	a. Cassava chip production
		b. Herb tea production
		c. Use of sewing machines for repair and making of clothes
Cassava chips	Apr. 2014	◆ The women's groups had kept producing cassava chips even without technical
production	– Jun.	assistance from the NGO. As a result of the continuous production, they were able

Topics / Techniques	Month of training	Summary of Activities
	2015	to produce 30 to 60 packages of cassava chips at a time on average. The NGO helped them check the quality of cassava chips, pack them into packages, and deliver the final products to the shops. A total of 2,487 packages of the cassava chips have been delivered to the buyers as of the end of June 2015.  ◆ The NGO had assisted the women's groups in managing the earnings from the sales of cassava chips. According to the NGO, the total gross profit from the production of cassava chips came to more than US\$ 3,000 as of the end of June 2015.
Herbal Tea Production	Jan May 2015	<ul> <li>◆ The women groups and NGOs had a request from PARCIC to produce and deliver several kilograms of herbal tea made of black daleta leaves in January 2015, as a buyer in Japan had interest in buying the same.</li> <li>◆ In response to the request, the women groups started collecting and processing black daleta leaves in January 2015 and had produced herbal tea until May/June 2015. As total of 13 members of the groups produced and delivered about 4 kg of herbal tea to PARCIC and earned US\$ 60 in total by selling them at a price of US\$ 15/kg.</li> </ul>
Use of sewing machines	May 2014. – Jan. 2015	◆ The women groups had been able to earn cash income from mending clothes of communities by using sewing machines. The NGO has periodically assisted the women's groups in improving their skills of using a sewing machine.
Additional training in producing salted vegetables	May – Jun. 2014	<ul> <li>◆ The NGO and the JICA Project Team held two (2) hands-on training sessions on production of salted vegetables. The first session was held with 13 members on May 23, 2014 and the members learned how to soak vegetables in salted water, while a total of 19 members learned to take pickled vegetables out from salted water in the sessions.</li> <li>◆ As a result of the sessions, the groups produced 18 pckages of salted vegetables.</li> </ul>
Training on financial management	Oct. 2014. and Mar. 2015	<ul> <li>The NGO with guidance of the JICA Project Team trained a total of 17 members on how to i) keep a book of account and ii) calculate the production costs and profits from total sales in October 2014.</li> <li>The NGO further held a two (2) days training course for four (4) tresures (the members responsible for keeping a book of account) in the groups in March 2015 to help them keep a book of account in a proper manner.</li> </ul>
Participation in exihibitions	Nov. 2014. and Feb. 2015	<ul> <li>◆ Core members of the women groups participated in the following exihibitions held in Dili and had chances to introduce their products to guests who visited their booth.</li> <li>- Exhibition under the Climate Chage Adaptation Conference organized by GCCA/World Vision in November 2015</li> <li>- Exhibition of Local Agricultural Commodities organized by PARCIC in February 2015</li> </ul>
Discussions on the useof earnings from the sales of cassava chips	Feb. 2015	<ul> <li>◆ The NGO together with the JICA Project Team held meetings with the women group in February 2015 to discuss how the groups would use the earnings (about US\$ 2,500 as of the time of the meetings) from the sales of cassava chips. The members who attended the meetings decided that they would use the earnings for benefiting members involved in cassava chips production in addition to the operations of chips production as shown below. <ul> <li>20 % of the earnings would be shared among the members and saved as personal savings of the members.</li> <li>50 % of the earnings would be used for operations and expansion of the livelihood activities.</li> <li>30 % of the earnings would be used for micro credit.</li> </ul> </li> <li>◆ The members also discussed and decided rules on micro credit as follows. <ul> <li>The amount of loan per member should be from US\$ 50 to 100.</li> <li>The interest rate is 6 % per annum.</li> <li>The members who have actively participated in cassava chips production shall have a preferential right to use the scheme.</li> <li>The members who have not participated in cassava chips production can use the scheme when they save more than US\$ 25 in the group's deposit.</li> </ul> </li> <li>◆ Appendix-3.8 stored in the CD attached to this report shows the rules of the women's groups on management of their earnings and micro credit.</li> </ul>

#### c. SPTPP-MP in Sucos Madabeno and Talitu

C. Of 111 - MIT III OUCOS MIAGADENO AND TAING									
Topics /	Month of	Summary of Activities							
Techniques	training								
Revision of the	Mar. 2014	◆ The beneficiaries groups in Sucos Madabeno and Talitu decided to continue the							

Topics /	Month of	Summary of Act	ivities								
Techniques member lists of the beneficiaries' groups	training	production of fruit seedlings in the existing nurseries in 2014/2015 by using the financial support from MAF's scheme named "the Community Development Fund for Reforestation in 2014."									
		◆ Prior to the resumption of the nurery operations, the beneficiaries groups reviewed and revised the member lists of the respective groups with assistane from the NGO									
		as shown below.  Reorganization of the Beneficiaries' Groups									
		Suco No. of groups No. of members									
		Talitu 5 groups 106 members									
		Madabeno 8 groups 162 members  Source: Halarae Foundation (2014)									
		◆ A total of 268 members in 13 groups agreed to continue the seedling production in the nurseries in 2014/2015.									
Seedling	Mar. 2014	◆ The beneficial	aries group	s had conduct	ed the followin	ıg					
Production and	- Feb.				assistance of th	ne					
Nursery	2015			o January 2015	•		1				
Operations			of seeds in s		1 (*11:						
					and filling mixe	ed 💮					
			seedling po	outs into seedlii	ng nots	10					
					atural pesticide						
						and an	plication of liquid				
			and natural				r				
			ng of seedlin								
				Activities done i							
		_	Topics Suco No. of groups Dates of training No. of participants								
		Fixing of Madabeno 8 groups Mar. 10 to 26, 2014 84 members in total									
		rixing of nurseries	Madabeno Talitu	8 groups 5 groups	Mar. 25 to Apr. 10		35 members in total				
		nurseries Collection of soils	Talitu Madabeno	5 groups 8 groups	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3,	0, 2014 2014	35 members in total 69 members in total				
		nurseries  Collection of soils and compost	Talitu Madabeno Talitu	5 groups 8 groups 5 groups	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201	0, 2014 2014 4	35 members in total 69 members in total 32 members in total				
		nurseries Collection of soils	Talitu Madabeno	5 groups 8 groups	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3,	0, 2014 2014 4	35 members in total 69 members in total				
		nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots	Talitu Madabeno Talitu Madabeno Talitu	5 groups 8 groups 5 groups 8 groups 5 groups	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15	2014 2014 4 5, 2014	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total				
		nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of	Talitu Madabeno Talitu Madabeno Talitu Madabeno Talitu Madabeno	5 groups 8 groups 5 groups 8 groups 5 groups 8 groups	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15 Apr. 8 to 23, 2014	0, 2014 2014 4 5, 2014	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total				
		nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots	Talitu Madabeno Talitu Madabeno Talitu	5 groups 8 groups 5 groups 8 groups 5 groups	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15	0, 2014 2014 4 5, 2014 2, 2014	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total				
		nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of liquid fertilizer	Talitu Madabeno Talitu Madabeno Talitu Madabeno Talitu Madabeno Talitu Madabeno Talitu	5 groups 8 groups 5 groups 8 groups 5 groups 5 groups 5 groups	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15 Apr. 8 to 23, 2014 Mar. 31 to May 12	0, 2014 2014 4 5, 2014 2, 2014 1, 2014	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 38 members in total				
		nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of	Talitu Madabeno Talitu Madabeno Talitu Madabeno Talitu Madabeno Talitu Madabeno Talitu	5 groups 8 groups 5 groups 8 groups 5 groups 5 groups 5 groups 8 groups 5 groups 8 groups	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15 Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11	0, 2014 2014 4 5, 2014 2, 2014 1, 2014	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 38 members in total 46 members in total				
		nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of liquid fertilizer  Source: Halarae Foun	Talitu Madabeno Talitu	5 groups 8 groups 5 groups 8 groups 5 groups 5 groups 5 groups 8 groups 5 groups 5 groups 9 groups 9 groups 9 groups 9 groups 9 groups	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15 Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10,	2014 2014 4 5, 2014 2, 2014 1, 2014 2, 2014	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 38 members in total 46 members in total				
		nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of liquid fertilizer  Source: Halarae Found  The nursery of and hardening	Talitu Madabeno Talitu Madabeno Talitu Madabeno Talitu Madabeno Talitu Madabeno Talitu Madaton (2015)  perations (eg) had beer	5 groups 8 groups 5 groups 8 groups 5 groups 5 groups 5 groups 5 groups 5 groups 5 groups 6 groups 6 groups 7 groups 8 groups 7 groups 8 groups 9 groups 1 carried out by	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15 Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and app	0, 2014 2014 4 5, 2014 2, 2014 2, 2014 1, 2014 2, 2014 plication gned for	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total of liquid fertilizer, daily maintenance				
		nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of liquid fertilizer  Source: Halarae Found  The nursery of and hardening until the time	Talitu Madabeno Talitu	5 groups 8 groups 5 groups 8 groups 5 groups 8 groups 5 groups 8 groups 5 groups 6 groups 6 groups 7 groups 8 groups 7 groups 8 groups 9 groups 9 groups 1 carried out by the seedlings in the	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15 Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and apply members assigne nursries were	0, 2014 2014 4 5, 2014 6, 2014 1, 2014 1, 2014 plication gned for distribu	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total of liquid fertilizer, daily maintenance tted to members.				
Planting of	Mar. 2014	nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of liquid fertilizer  Source: Halarae Found  The nursery of and hardening until the time  The majority	Talitu Madabeno Talitu dation (2015) perations (eg) had beer when all the	5 groups 8 groups 5 groups 8 groups 5 groups 8 groups 5 groups 8 groups 5 groups 9 groups 1 carried out by the seedlings in the seedlings in the seed of the best of the seedlings in the seedlin	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15 Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and apply members assigneed to the control of the co	0, 2014 2014 4 5, 2014 6, 2014 7, 2014 9, 2014 9, 2014 plication gned for distribu	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total 47 members in total 60 members in total 78 members in total 79 members in total 70 members in total 71 members in total 72 members in total 73 members in total 74 members in total 75 members in total 76 members in total 77 members in total 77 members in total 78 members in total 79 members in total 79 members in total 70 members in total 70 members in total 71 members in total 71 members in total 72 members in total 73 members in total 74 members in total 75 members in total 76 members in total 77 members in total 78 members in total 79 members in total 79 members in total 79 members in total 70 members in total 70 members in total 70 members in total 70 members in total 71 members in total 72 members in total 73 members in total 74 members in total 75 members in total 76 members in total 77 members in total 77 members in total 78 members in total 79 members in total 70 members in total 70 members in total 70 members in total 71 members in total 71 members in total 72 members in total 73 members in total 74 members in total 75 members in total 76 members in total 77 members in total 77 members in total 78 members in total 78 members in total 78 members in total 79 members in total 70 members in total 70 members in total 70 members in total 71 members in total				
seedlings in their	- Feb.	nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of liquid fertilizer  Source: Halarae Found  The nursery of and hardening until the time  The majority techniques to	Talitu Madabeno Talitu dation (2015) perations (og) had beer when all the of membo their own	5 groups 8 groups 5 groups 8 groups 5 groups 8 groups 5 groups 8 groups 5 groups 6 groups 6 groups 7 groups 8 groups 7 groups 8 groups 9 groups 1 carried out by the seedlings in the seedlings in the seed farms/plots wi	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15  Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and apply members assigne nursries were	0, 2014 2014 4 5, 2014 6, 2014 7, 2014 9, 2014 9, 2014 plication gned for distribu	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total of liquid fertilizer, daily maintenance tted to members.				
		nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of liquid fertilizer  Source: Halarae Found  The nursery of and hardening until the time  The majority techniques to they recieved	Talitu Madabeno Talitu dation (2015) perations (og) had beer when all the of membo their own seedlings fi	5 groups 8 groups 5 groups 8 groups 5 groups 8 groups 5 groups 5 groups 8 groups 5 groups 6 groups 6 groups 6 groups 6 groups 7 carried out by the seedlings in the seedlings with the benefice of the benefic	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15 Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and apply members assigne nursries were neficiaries' grout th technical assi	0, 2014 2014 4 5, 2014 6, 2014 7, 2014 9, 2014 9, 2014 plication gned for distribu	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total 47 members in total 60 members in total 78 members in total 79 members in total 70 members in total 71 members in total 72 members in total 73 members in total 74 members in total 75 members in total 76 members in total 77 members in total 77 members in total 78 members in total 79 members in total 79 members in total 70 members in total 70 members in total 71 members in total 71 members in total 72 members in total 73 members in total 74 members in total 75 members in total 76 members in total 77 members in total 78 members in total 79 members in total 79 members in total 79 members in total 70 members in total 70 members in total 70 members in total 70 members in total 71 members in total 72 members in total 73 members in total 74 members in total 75 members in total 76 members in total 77 members in total 77 members in total 78 members in total 79 members in total 70 members in total 70 members in total 70 members in total 71 members in total 71 members in total 72 members in total 73 members in total 74 members in total 75 members in total 76 members in total 77 members in total 77 members in total 78 members in total 78 members in total 78 members in total 79 members in total 70 members in total 70 members in total 70 members in total 71 members in total				
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seedlings in their	- Feb.	nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of liquid fertilizer  Source: Halarae Found  The nursery of and hardening until the time  The majority techniques to they recieved  Alignment	Talitu Madabeno Talitu Madaben	5 groups 8 groups 5 groups 8 groups 5 groups 8 groups 5 groups 5 groups 8 groups 5 groups 6 groups 6 groups 6 groups 6 groups 7 carried out by the seedlings in the seedlings in the seed of the beneficing relating at project planting at project pits	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15  Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and apply members assigne nursries were neficiaries' groups. Oper spaces	0, 2014 2014 4 5, 2014 6, 2014 7, 2014 9, 2014 9, 2014 plication gned for distribu	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total 47 members in total 60 members in total 61 members in total 62 members in total 63 members in total 64 members in total 65 members in total 66 members in total 67 members in total 68 members in total 68 members in total 69 members in total 69 members in total 69 members in total 69 members in total 60 members in total 60 members in total 61 members in total 61 members in total 62 members in total 63 members in total 64 members in total 65 members in total 65 members in total 66 members in total 66 members in total 67 members in total 67 members in total 68 members in total 69 members in total 69 members in total 60 members in total 60 members in total 60 members in total 60 members in total 61 members in total 61 members in total 62 members in total 63 members in total 64 members in total 64 members in total 65 members in total 65 members in total 66 members in total 67 members in total 67 members in total 68 mem				
seedlings in their own plots	- Feb. 2015	nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of liquid fertilizer  Source: Halarae Found  The nursery of and hardening until the time  The majority techniques to they recieved  Alignment - Digging - Application	Talitu Madabeno Talitu Madaben	5 groups 8 groups 5 groups 8 groups 5 groups 8 groups 5 groups 5 groups 8 groups 5 groups 6 groups 6 groups 6 groups 6 groups 7 carried out by the seedlings in the seedlings in the seed of the benefication of the benefication of the seed of the s	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15 Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and apply members assigne nursries were neficiaries' groups. Oper spaces of soils	0, 2014 2014 4 5, 2014 6, 2014 7, 2014 9, 2014 9, 2014 plication gned for distributing app istance of	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total 46 members in total 78 members in total 46 members in total 79 members in total 60 fliquid fertilizer, or daily maintenance atted to members. 61 did the following of the NGO before				
seedlings in their own plots  Maintenance of	- Feb. 2015	nurseries  Collection of soils and compost  Mixing of soils and filling them into seedling pots  Transplanting of sprouts  Preparation of liquid fertilizer  Source: Halarae Foun  The nursery of and hardening until the time  The majority techniques to they recieved  Alignment - Digging - Applicate  Members of	Talitu Madabeno Talitu Madaben	5 groups 8 groups 5 groups e.g., watering, varied out by e seedlings in the seedlings in the seed planting at project planting at project planting at project when refilling iciaries' group	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15  Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and apply members assigne nursries were neficiaries' groups. Oper spaces of soils os also maintai	plication gned for distributions applicationed seed	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total 27 members in total 46 members in total 46 members in total 76 daily maintenance atted to members. 6 died the following of the NGO before				
seedlings in their own plots	- Feb. 2015	nurseries Collection of soils and compost Mixing of soils and filling them into seedling pots Transplanting of sprouts Preparation of liquid fertilizer Source: Halarae Foun  The nursery of and hardening until the time The majority techniques to they recieved Alignment - Digging - Applicate Members of 2013/2014 by	Talitu Madabeno Talitu Madaben	5 groups 8 groups 5 groups e.g., watering, varied out by e seedlings in the seedlings in the seed planting at project planting at project planting at project when refilling iciaries' group	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15  Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and apply members assigne nursries were neficiaries' groups. Oper spaces of soils os also maintai	plication gned for distributions applicationed seed	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total 46 members in total 78 members in total 46 members in total 79 members in total 60 fliquid fertilizer, or daily maintenance atted to members. 61 did the following of the NGO before				
seedlings in their own plots  Maintenance of	- Feb. 2015	nurseries Collection of soils and compost Mixing of soils and filling them into seedling pots Transplanting of sprouts Preparation of liquid fertilizer Source: Halarae Foun  The nursery of and hardening until the time The majority techniques to they recieved Alignment - Digging - Applicate Members of 2013/2014 by NGO.	Talitu Madabeno Talitu dation (2015) Operations (og) had beer when all the of memb of their own seedlings fint of pits for of large-size on of competence the benefity applying	5 groups 8 groups 5 groups e.g., watering, varied out by e seedlings in the seedlings in the seed planting at project planting at project planting at project when refilling iciaries' group	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15  Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and apply members assigne nursries were neficiaries' groups. Oper spaces of soils os also maintai	plication gned for distributions applicationed seed	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total 27 members in total 46 members in total 46 members in total 76 daily maintenance atted to members. 6 died the following of the NGO before				
seedlings in their own plots  Maintenance of	- Feb. 2015	nurseries Collection of soils and compost Mixing of soils and filling them into seedling pots Transplanting of sprouts Preparation of liquid fertilizer Source: Halarae Foun  The nursery of and hardening until the time The majority techniques to they recieved Alignment - Digging - Applicate Members of 2013/2014 by	Talitu Madabeno Talitu dation (2015) operations (eg) had beer when all the of memb of their own seedlings fint of pits for of large-size on of comport the benefity applying	5 groups 8 groups 5 groups e.g., watering, varied out by e seedlings in the seedlings in the seed planting at project planting at project planting at project when refilling iciaries' group	Mar. 25 to Apr. 10 Mar. 24 to Apr. 3, Mar. 18 to 27, 201 Apr. 1 to 10, 2014 Mar. 25 to Apr. 15  Apr. 8 to 23, 2014 Mar. 31 to May 12 May 26 to Nov. 11 Apr. 10 to Oct. 10, weeding, and apply members assigne nursries were neficiaries' groups. Oper spaces of soils os also maintai	plication gned for distributions applicationed seed	35 members in total 69 members in total 32 members in total 78 members in total 55 members in total 95 members in total 46 members in total 27 members in total 27 members in total en of liquid fertilizer, and daily maintenance to the did to members. Good the following of the NGO before edlings planted in				

# d. SUFP-MP in Sucos Madabeno and Talitu

Topics /	Month of	Summary of Activities								
Techniques	training									
FFSs held in the	Apr. 2014	◆ Members of the beneficiaries' groups had engaged in another round of FFSs on								
Main	– Jun.	sustainable upland farming in the main and sub-group demonstration plots as								
Demonstration	2015	shown below.								
Plots and		Follow-up FFS Sessions held in Suco Madabeno and Talitu								
Sub-group			a. Main Demonstration Plots							
Demonstration		Topic Suco Date of Session No. of Participants								
Plots		Preparation of Talitu 1 sesssion on Apr. 15, 2014 8 members								
11003		materials and piling	28 members in total							
		Maintenance of	Talitu	1 sesssion on Aug. 21, 2014	5 members					
		compost Madabeno 4 sesssions from Jul. 8 to Aug. 27, 2014 24 members in total								
		Plowing	Talitu	1 sesssion on Aug. 12, 2014	5 members					

Topics /	Month of	Summary of Activ	ities			
Techniques	training	·				
•	Š		Madabeno	4 sesssions from Aug. 12 t	to Sep. 10, 2014	27 members in total
		Application of	Talitu	1 sesssion on Sep. 4, 2014		5 members
		Compost	Madabeno	4 sesssions from Oct. 8 to		25 members in total
		Selection and	Talitu	1 sesssion on Nov. 6, 2014		5 members
		sowing of seeds	Madabeno	4 sesssions from Nov. 17 t		27 members in total
		Production of liquid fertilizer	Talitu Madabeno	1 sesssion on Apr. 10, 201 4 sesssions from May 26 t		7 members 27 members in total
		Planting of fodder	Talitu	1 sesssion on Dec 11, 20		5 members
		crops	Madabeno	4 sesssions from Feb. 5 to		More than 20 members in total
		1st Maintenance of	Talitu	1 sesssion on Jan. 13, 201	5	5 members
		farms	Madabeno	4 sesssions from Dec. 10, 2015	2014 to Jan. 17,	About 20 members in total
		Mulching using	Talitu	1 sesssion on Feb. 24, 201		5 members
		leaves of hedgerow	Madabeno	4 sesssions from Feb. 9 &		21 members in total
		2 <sup>nd</sup> Maintenance of	Talitu	1 sesssion on Jan. 7, 2015		5 members
		farms	Madabeno	4 sesssions on Dec. 15, 20 2015		20 members in total
		3 <sup>rd</sup> Maintenance of	Talitu	1 sesssion on Jan. 28, 201.		6 members
		farms	Madabeno	4 sesssions on Mar. 5 to 23	About 20 members in total	
		b. Sub-group Demon			-•	N6D44-
		Topic Preparation of	Suco Talitu	Date of Sess 4 sesssions on Apr. 16, 22		No. of Participants 32 members in total
		materials and piling	Madabeno	16 sesssions from Apr. 8 t		85 members in total
		Maintenance of	Talitu	4 sesssions on Jul. 1 & 8,		24 members in total
		compost	Madabeno	16 sesssions from Jul. 14 t	to Aug. 25, 2014	67 members in total
		Plowing	Talitu	4 sesssions from Aug. 12 to Sep. 10, 2014		28 members in total
		A 1: .: .: .	Madabeno	16 sesssions from Aug. 11		About 70 members
		Application of Compost	Talitu Madabeno	4 sesssions from Sep. 8 & 16 sesssions from Sep. 22	21 members in total 71 members in total	
		Selection and sowing	Talitu	4 sesssions from Nov. 13 t		30 members in total
		of seeds	Madabeno	16 sesssions from Nov. 10	74 members in total	
		1st Maintenance of	Talitu	4 sesssions from Dec. 12 t	o 14, 2014	15 members in total
		farms	Madabeno	16 sesssions from Dec. 9 t	to 18, 2014	More than 50 members in total
		Mulching using	Talitu	4 sesssions from Feb. 18 &	& 19, 2015	20 members in total
		leaves of hedgerow	Madabeno	16 sesssions from Feb. 9 to		71 members in total
		Planting of fodder	Talitu	2 sesssions from Feb. 19 &		12 members in total
		crops	Madabeno	16 sesssions from Feb. 5 to		More than 50 members in total
		2 <sup>nd</sup> Maintenance of	Talitu	4 sesssions from Jan. 13 to		18 members in total
		farms	Madabeno	16 sesssions from Dec. 9, 2015	2014 to Jan. 21,	More than 60 members in total
		3 <sup>rd</sup> Maintenance of	Talitu	4 sesssions from Feb. 10 &	£ 12, 2015	24 members in total
		farms	Madabeno	16 sesssions from Jan. 19 to Mar. 5, 2015		More than 50
					members in total	
		Harvesting	Talitu	2 sesssions from Apr. 9 & 10, 2015		38 members in total
			Madabeno	14 sesssions from Mar. 30	More than 70 members in total	
		Post-harvesting	Talitu	None	More than 70	
			Madabeno	16 sesssions from May 25	More than 70 members in total	
4 11		Source: Halarae Foun	idation(2015)	O	1	
Application of			C .1 .	eticiaries oronins also	annlied the te	achniques that they
Techniques to	Apr. 2014	♦ The members				
1	– Jun.	◆ The members practiced throu	gh the FFS	Ss to their own farm	s with technica	al assistance of the
Individual Farms		◆ The members practiced throu NGO. As of the	gh the FFS ne end of I	Ss to their own farm March 2015, the major	s with technica	al assistance of the
Individual Farms	– Jun.	◆ The members practiced throu NGO. As of the techniques to the state of the techniques the techniques the state of the techniques the tec	gh the FFS ne end of I neir own far	Ss to their own farm	s with technica ority of them h to Members' Plots	al assistance of the nave applid the key
Individual Farms	– Jun.	◆ The members practiced throu NGO. As of the techniques to the state of the techniques the techniques the state of the techniques the tec	gh the FFS ne end of Meir own far Level of Appl p No.	Ss to their own farm March 2015, the major ms as shown below. ication of Key Techniques of Compost	s with technical prity of them has been been been been been been been bee	al assistance of the have applid the key  Planting of fodder
Individual Farms	– Jun.	◆ The members practiced throu NGO. As of the techniques to the	gh the FFS ne end of M neir own far Level of App p No. benefic	Ss to their own farm March 2015, the majo ms as shown below. ication of Key Techniques of Compost iaries application	s with technical prity of them has been to Members' Plots  Application of liquid fertilizer	al assistance of the nave applid the key  Planting of fodder trees in terraces
Individual Farms	– Jun.	◆ The members practiced throu NGO. As of the techniques to the Suco Groutality 2 group	gh the FFS ne end of I neir own far Level of Appl p No. benefic	Ss to their own farm March 2015, the major ms as shown below.  ication of Key Techniques of Compost application 40/52 (78%)	s with technical ority of them has been been been been been been been bee	al assistance of the nave applid the key  Planting of fodder trees in terraces 26/52 (50%)
Individual Farms	– Jun.	◆ The members practiced throu NGO. As of the techniques to the	gh the FFS ne end of I neir own far  Level of Appl P No. benefic s 5: s 15	Ss to their own farm March 2015, the major ms as shown below.  ication of Key Techniques of Compost application 40/52 (78%)  1 145/151 (96%)	s with technical prity of them has been to Members' Plots  Application of liquid fertilizer	al assistance of the have applid the key  Planting of fodder trees in terraces 26/52 (50%) 139/151 (92%)

# (9) Results of the Third (3<sup>rd</sup>) Year FFSs

The results of the 3<sup>rd</sup> year FFSs are summarized below.

# Summary of Results of the 3<sup>rd</sup> Year FFSs and Technical Assistance

Micro	Suco	Results of		ne 3 Tear	i i os anu	recinin	cai Assistai	100				
Program	Suco	Kesuris or	the Act	11/11/168								
SUFP with	Faturasa											
CBSE-MP	Fadabloco											
		◆ Through the FFSs, the beneficiaries groups harvested maize, peanut, and beans										
		planted in the main and sub-group demonstration plots. The following table shows the										
		production of crops and volumes of seeds planted in the demonstration plots.										
		Harvest volume at the demonstration plots for SUFP with CBSE-MP										
		a. Main demonstration plots (unit: kg)										
		Suco No. of Maize (Improved) Peanuts (Improved) Red Bean (Loc plots Sown Harvest Sown Harvest Sown Ha										
		plots   Sown   Harvest   Sown   Harvest   Sown   Seed   Seed							Harvest			
		Faturasa 6 plots 15 435 15 162							33			
		Fadabloco	4 plots 10 plots	8	979	8	169	8	69 102			
		Total		23	1,414	23	331	20				
		b. Sub-group			mnrovod)	Dognu	ts (Improved)	Dod Do	(unit: kg)			
		Suco No. of Maize (Improved) Peanuts (Improved) Red Bean (Local) plots Sown Harvest Sown Harvest Sown Harvest										
			•	Seed		Seed		Seed				
		Faturasa Fadabloco	15 plots 16 plots	33 32	590 1,289	0	0	15 26	33 90			
		Total	31 plots	55	1,879	0	0	41	123			
		Source: RAEI	BI Timor-I		,		•	•				
		<b>▲</b> 7771	c	c	·		1		. 11			
							good as exp					
				in mam and			nstration plot	is iii radat	bloco were			
							s' groups save	od substantia	1 amount of			
							for next crop					
		Secus	or impro			-	ing in 2015/2016		in ociow.			
		<u> </u>		Volume	of Seeds Stored	тог сторр	ing in 2013/2010		(unit: kg)			
		Suco		lo. of plots	Maize (Imp		Peanuts (Improv	ved) Red I	Bean (Local)			
		Fatura: Fadabl		plots plots	25 45		149 118		20 41			
		Total		0 plots	65		267		61			
				imor-Leste (2015								
IG/LD-MP	Fadabloco						a chips produ					
							as of the end o					
							micro credit n. A total of U					
				ith 6 %/annu			ii. A totai oi t	J34 940 WE	ie ioaneu to			
							able to earn	cash incom	e from the			
							unt of the ear					
				by the sales								
				f herbal tea		1						
		- Use o	of sewin	g machines								
SPTPP-MP	Madabeno						otal of 13 be					
	Talitu						015, and the 1		ne had been			
							he nursery in					
							ngs in Talitu		seedlings in			
							4/2015 as sho		1 1 1			
							re planted by					
							seedlings of L ll too small to					
		the nui			-			-				
			No. of Se	edlings produce	ed in the Nurse	ries and Pl	anted by Membe	ers in 2014/2013 Unit: Po				
		Species Talitu Madabeno Total										
				splanted in 2013		-	50.4/50.4	025/0	25			
		Ora Citr			362/362 0/0		574/574 77/77	936/9 77/7				
			dalwood		311/311		1,307/1,307	1,618/1				
			-total		673/673		1,958/1,958	2,631/2	,631			
			dlings trar nbutan	splanted in 2014	2,163/2,16	i3	2,388/2,388	4,551 /4	1551			
		Lon			548/548		395/581	943/1				
		Clo	ve		294/294		1,978/1,978	2,272 /2	2,272			
			k (local)		266/266		754/754	1,020/1				
		L19 Cali	iandra		330/330 390/390		1,091/1,091 616/616	1,421/1 1,007/1				
			-total		3,991/3,99		7,186/7,408	11,177/1				
				Total 4,664/4,664 9,144/9,366 13,808/14,030								

Micro Program	Suco	Results of the Activities							
J		Not	e: The fig	gures in left are	the numbers of	of seedlings plan	nted by membe	ers, while those	in
			right are those produced in the nurseries.						
		Sou	Source: Halarae Foundation (2015)						
SUFP-MP	Madabeno	Member	♦ Members of the beneficiaeis' groups managed and maintained five (5) main						
	Talitu	demoi	nstration p	olots and 20	sub-group	demonstratio	on plots thre	ough the 3 <sup>rd</sup>	year FFSs
		in 201	4/2015.				•	C	•
		◆ The v	ields of 1	maize in ho	th main an	d sub-group	demonstra	ition plots w	ere rather
		_				llowing table			
					•	•		total volulli	e or marze
		narves	stea in the	main and su	ib-group de	monstration	piots.		
				Harvest volu	me at the dem	onstration plot	s for SUFP-M	IP	
		a. Main den							(unit: kg)
		Suco	No. of Maize (Improved) Red beans (local) Peanuts (Local)					( )	
			plots	Volume of	Harvest	Volume of	Harvest	Volume of	Harvest
		m III	1 1	Seed	<b>50</b>	Seed		Seed	
		Talitu Madabeno	1 plot	2.0 4.5	50 181	-	-	-	-
		Total	4 plots 5 plots	6.5	231	-	_	-	-
					231	-	_	_	-
		b. Sub-grou							(unit: kg)
		Suco	No. of	Maize (In		Red Bear		Soy beans	
			plots	Volume of	Harvest	Volume of	Harvest	Volume of	Harvest
		T-lite-	4 -1-4-	Seed	206	Seed		Seed	
		Talitu Madabeno	4 plots 16 plots	6.0 20.5	206 960	-	-	-	-
		Total	20 plots	26.5	1.166	-	-	-	
		Source: Hala			1,100				_

#### (10) Final Evaluation of the Micro Programs

The NGOs arranged and held a one-day meeting each for the respective micro programs with the beneficiaries'/women groups on the following dates to help the members evaluate the results of the micro programs and develop work plans of the respective micro programs so that the benefiries' groups/members could continue similar activities even in the post-project periods.

Micro program	Suco	Date	No. of participants
SUFP with CBSE-MP	Faturasa	June 24, 2015	21 participants
	Fadabloco	June 25, 2015	38 participants
IG/LD-MP	Fadabloco	June 25, 2015	No datum was available.
SPTPP-MP	Madabeno	March 4, 2015	27 participants
	Talitu	March 6, 2015	21 participants
SUFP-MP	Madabeno	July 17, 2015	24 participants
	Talitu	June 3, 2015	21 participants

Source: RAEBIA Timor-Leste and Halarae Foundation (2015)

In the meetings, the NGOs helped members of the beneficiaries'/women groups:

- ◆ review the perfomance of the members and the results of the activities in 2014/2015;
- discuss any difficulties that they had faced during the operations and causes of such difficulaties as well as possible solutions that they could have taken;
- evaluate the effectiveness and applicability of the techniques introduced by the micro programs; and
- ♦ discuss and develop an annual work plan of the micro program in case the beneficiaries'/women groups showed their willingness to continue the same activities in 2015/2016 on their own initiative.

The beneficiaries'/women groups of the micro programs, except those of SUFP-MP in Sucos Madabeno and Talitu, decided to continue the micro program activities even without support from the NGOs. Hence, they prepared annual work plans of the micro programs in 2015/2016 with assistance of the NGOs.

#### 3.5.2 Results of the Second (2<sup>nd</sup>) Batch Sucos

The micro progams in the second batch sucos had been implemented in the same manner as those implemented in the first batch sucos. The preparatory works started in January 2013, and the micro programs had been implemented for about two (2) years from April 2013 to August 2015.

#### (1) Preparatory Work

The NGOs arranged and held the following meetings with communities in Sucos Hautoho and Tohumeta to orgnize the beneficiaries' groups which would be the main bodies for implementation of the micro programs in each suco.

- Meetings to organize the beneficiaries' groups for implementation of the micro programs at the aldeia level
- Study tours to sucos where similar activities had been introduced/applied by communities
- Meetings to develop work plans (overall and annual work plans) for implementation of the micro programs

The results of the meetings and study tours were summaried below.

Summary of the Prepartory Works done in the 2 <sup>nd</sup> Batch Sucos						
Activities	Outline of the Activity	Results of the Activities				
Organization of the beneficiaries' groups	<ul> <li>◆ 1<sup>st</sup> meting to explain the outline of the micro programs and the necessity of group formation for implementation of the micro programs</li> <li>◆ 2<sup>nd</sup> meeting to select members of the beneficiaries' groups of the micro programs with introduction of criteria and eligibility for members</li> <li>◆ 3<sup>rd</sup> meeting to determine visions and missions of the beneficiaries' groups and define roles and responsibilities of the respective members</li> </ul>	<ul> <li>◆ Three (3) beneficiaries' groups composed of 110 members were formed for SUFP with CBSE-MP in Hautoho.</li> <li>◆ Three (3) women groups composed of 30 women were formed for IG/LD-MP in Hautoho</li> <li>◆ Eight (8) beneficiaries' groups composed of 87 members were formed for SUB/PF-MP in Tohumeta</li> <li>◆ Resolutions of the respective beneficiaries' groups were prepared by the beneficiaries' groups in the target sucos with assistance of the NGOs and JICA Project Team.</li> </ul>				
Exposure Visits/ Study Tours for the Beneficiaries' Groups	<ul> <li>◆ Study tours for core members of the beneficiaries' groups to visit villages where similar activities had been already introduced and applied by communities</li> <li>◆ Meeting between the members of the beneficiaries' groups and those in host villages</li> <li>◆ Meeting with other members who did not attend the study tours for information sharing</li> </ul>	<ul> <li>♦ A total of 20 members of SUFP-MP/SUFP with CBSE-MP in Sucos Hautoho visited Suco Umakaduak, Manatutu District to observe the sloping agricultural land techniques.</li> <li>♦ A total of 19 women of IG/LD-MP in Suco Hautoho visited Suco Fadabloco to have a meeting with the members of the same micro program in Fadabloco and observed the hands-on training in making a recycle bag.</li> <li>♦ A total of 30 members of SUB/PF-MP in Sucos Tohumeta visited Suco Liurai, Aileu District to observe the integrated use of permanent farms in the village.</li> </ul>				
Preparation of work plans of the micro programs	<ul> <li>Two-day workshops to develop overall and annual work plans of the mciro programs in a participatory manner.</li> </ul>	<ul> <li>Overall work plans of the respective micro programs were developed by members of the beneficiaries' groups.</li> </ul>				

Source: JICA Project Team (2015)

#### (2) First (1st) Year FFSs and Technical Assistance

The NGOs had arranged and conducted the following activities in the  $1^{st}$  year FFSs of the respepctive micro programs.

Summary of the 1<sup>st</sup> Year FFSs and Technical Assistance

a. SUFP with	<b>CBSE-MP</b> ir	Suco	Hautoho

Topics / Techniques	Month of training	Summary of Activities
Compost making including maintenance of compost	Jun. – Aug. 2013	<ul> <li>◆ The NGO held a two (2) days training session on compost making each at the three (3) demonstration plots in Suco Hautoho. A total of 228 members attended the sessions and learned how to prepare and pile materials for making compot.</li> <li>◆ In July and August 2013, the NGO further held two (2) sessions of hands-on training in maintaining compost at each devemontration plot with the participation of 200 members in total. The members who attended the sessions learned how to turn over and mix compost to facilitate the fermentation process of compost.</li> </ul>
Delineation of contour lines and application of soil conservation measures	Jul. and Aug. 2013	◆ The NGO held one (1) day training sessions on delineation of contour lines and two (2) to four (4) days sessions on application of soil conservation measures at each demonstration plot. A total of 342 members attended the sessions and practiced the techniques of i) making A-frames, ii) delineating contour lines by using A-frames, iii) making bench terraces, and iv) making contour composting terraces in the demonstration plots.
Cultivation with compost application	Aug. and Oct. 2013	<ul> <li>The NGO held a one (1) day training session on cultivation in August and another one (1) day session on compost application in November at each demonstration plot.</li> <li>A total 67 members and 88 members attended the seesions, respectively, and practied the techniques of plowing in a farm and applying compost in the demonstraton plots.</li> </ul>
Seed selection and sowing of seeds	Oct. and Nov. 2013	<ul> <li>The NGO held a one (1) day training session on seed selection and another one (1) day session on sowing seeds at each demonstration plot in October and November 2013, respectively.</li> <li>A total of 222 members attended the sessions and learned to select quality seeds and planting materials and sow/plant seeds in evenly space rows in the demonstration plots.</li> </ul>
Making of liquid fertilizer	Dec. 2013	<ul> <li>◆ The NGO held one-day training in making liquid fertilizer at each demonstration plot</li> <li>◆ A total of 105 members attended the sessions and made liquid fertilize using material locally available.</li> </ul>
Farm maintenance	Dec. 2013	<ul> <li>The NGO held a one (1) day hands-on training session on maintenance of a farm at each devemonstration plot in December 2013.</li> <li>A total of 102 members attended the sesions and practiced the techniques of weeding, mulching, applying liquid fertilizer, and fixing terraces in the demonstration plots.</li> </ul>
Planting of sweet potato	Dec. 2013	◆ A total of 74 members practiced the technique of row planting of sweet potat in one (1) day training sessions held at the demonstration plots.
Application of green manure	Feb. 2014	<ul> <li>The NGO held a one (1) day trining session on application of green manure at each demonstration plot with the participation of a total of 96 members.</li> <li>The members who attended the sessions learned to plant "lehe (a legume plant to cover a farm)" as a cover crop as well as green manure.</li> </ul>
Harvesting and post-harvesting of maize	Mar. and Apr. 2014	◆ Two (2) days sessions were held at the demonstration plots to introduce the techniques of harvesting and post-harvesting of maize. A total of 192 members attended the sessions and learned the techniques especially of collection and sotring of seeds.

Topics /		Summary of Activities
Techniques	training	
Fixing of	May 2014	◆ The NGO held a one (1) day trining session on maintenace of a farm at each
terraces and		demonstration plot with the participation of 75 members in total.
maintenance of		◆ The participants engaged in fixing of contour ditches and bunds as well as terraces in
a farm		the demonstration plots.
OJT in applying	May	◆ Core members of the beneficiaries' groups had practiced some techniquess in the
the techniques	2013 to	demontration plots on their own initiatives. In particular, they had engaged in
of sustainable	Mar. 2014	weeding, mulching, and additional fertilization by using liqud fertilizer to maintain
upland farming		the growth of crops in the demonstration plots.

b. IG/LD-MP in Suco Hautoho						
Topics /	Month of	Results of the Activities				
Techniques	training					
Resource assessment and identification of potential livelihoods  Salted vegetable production	Jun. and Aug. 2013	<ul> <li>◆ The women groups assess natural resources available in the suco and identified the following livelihood activities as potential livelihood activities.         <ol> <li>i) Salted vegetable production</li> <li>ii) Dried sweet potato production</li> <li>iii) Herbal tea production</li> <li>iv) Cassava chips production</li> <li>v) Use of sewing machines</li> </ol> </li> <li>◆ The NGO held a one (1) day trining session on production of salted vegetables (pickling of vegetables) with the participation of 20 members from three (3) women groups.</li> <li>◆ A total of 13 members from the groups checked the quality of salted/pickled vegetables with technical assistance of the</li> </ul>				
Production of dried sweet	Jul. 2013	NGO two (2) week after the training session.  ◆ In August 2013, when the two months fermentation process ended, the NGO held the last session on qulity check and packing of final products with the participation of 15 members of the groups.  ◆ A one (1) day session on production of dried sweet potato was had by the NGO with the participation of 19 members.				
potato		The members learned how to process sweet potato, namely techniques of peeling, steaming, slicing, and drying sweet potato in the course of the session.  ◆ The NGO held another session one (1) week after the training session to check and evaluate the quality of dried sweet potato. Members who attended the session were able to learn the importance of the drying process as they observed that almost all the products they produced got molded due to insufficient drying.				
Production of herbal teaa	Sep. 2013	<ul> <li>The NGO arranged and held a one (1) day training session on production of herbal tea with the participation of 23 members of the groups.</li> <li>Another session was held to check the quality of herbal tea with members of the groups. Members who attended the session were reminded that they should follow the standards set by PARCIC to market herbal tea.</li> </ul>				
Cassava chips production	Nov. 2013	◆ The NGO held a one (1) day training session on cassava chips production with the participation of nine (9) members of the groups. They learned and practiced the tehniques of making cassava chips.				
Use of sewing machine	Jan. 2014	<ul> <li>◆ The NGO held a four (4) days training session on use of a sewing machine for three (3) groups. A total of 93 members attended the sessions and learned how to use a sewing machine to mend and make clothes.</li> <li>◆ In February and March 2014, members had used sewing mahines on their own initiative to practice sewing techniques.</li> </ul>				

#### c. SUB/PF-MP in Suco Tohumeta

Topics /	Month of	Results of the Activities
Techniques	training	
Compost	Apr., May	◆ The NGO held a two (2) to three (3) days session on compost making at each
making and	and Jul.	demonstration plot in April and May 2013, while another one (1) day session on
maintenance	2013	turning over/mixing compst was held at each plot in July 2013. A total of 293

Topics /	Month of	Results of the Activities
Techniques of compost	training	members attended the sessions and learned/practiced the techniques of digging a compot pit, preparing and piling materials, and mixing composted materials.
Delineation of contour lines and application of contour composting technique	Jun. and Sep. 2013	<ul> <li>In June 2013, a total of 186 members learned and practiced the techniques of making an A-frame and delineating contour lines by using an A-frame through two (2) to three (3) days training couses held at demonstratin plots.</li> <li>The NGO also held a one (1) day training session on application of contour composting technique at each demonstration plot with the participation of 84 members in total in September 2013.</li> <li>The members who attended the sessions learned how to develop contour composting terraces at the demonstration plots.</li> </ul>
Plowing and application of compost	Sep. and Oct. 2013	◆ The NGO held a one (1) day training session on powing and application of compost at each demonstration plot. All the members (85 members) attended the sessions and learned/practied both techniques.
Application of compost basket	Sep. and Oct. 2013	◆ All the members also learned how to aplly compost basket through a one (1) day training session held at each demonstration plot.
Selection and sowing of maize and beans	Sep. and Oct. 2013	<ul> <li>◆ The NGO held a one (1) day training session on seed selection and line plannting of maize and beans at each demonstration plot.</li> <li>◆ A total of 79 members attended the sessions and learned how to select quality seeds and plant maize mixed with beans in evenly space rows (maize: 1 m x 0.5 m and beans: 1 m x 0.3-0.4 m) in the demontration plots.</li> </ul>
Pitting and refilling of pits with compost	Nov. 2013	◆ The NGO also trained 84 members to dig pits and refill the same with compost for planting seedings in the demonstration plots. A one (1) day session was held at each demonstration plot for this purpose.
Making of liquid fertilizer	Nov. 2013	◆ The NGO held one (1) day training sessions at each demonstration plots and trained a total of 81 members on how to make liquid fertilizer using material locally available.
Planting of sweet potato, cassava and mung beans	Dec. 2013 and Jan. 2014	◆ A total of 165 members of the beneficiaries' groups learned and practiced the techniques of planting cassava/sweet potato and mung beans in evenly space rows in one (1) to two (2) day/s sessions held in the demonstration plost.
Farm maintenance	Dec. 2013	◆ A one (1) day training session on farm maintenance was held by the NGO at each demonstration plot. A total of 64 members learned and practiced the techniques of weeding, applying liquid fertilizer, mulching, and fixing terraces/contour ditches in the demonstration plots.
Building of an animl pen	Nov. 2013 to Feb. 2014	◆ A total of 170 members of the beneficiaries' groups attended a few days session on animal pen building at each demonstration plot and learned how to build a pen for goat/cow using materials locally available and use animal manure collected from a pen for farming. In total, the NGO held 23 sessions in the suco.
Harvesting and post-	Apr. and May 2014	◆ The NGO held a one (1) day training session each on harvesting and post-harvesting at each demonstration plot.

Topics / Techniques	Month of training	Results of the Activities
harvesting		◆ A total of 122 members attended the sessions and learned how to i) select maize for seed selection, ii) dry maize cobs, iii) collect maize grains for seeds, and iv) store seeds by using an airtight contaainer.
Maintenance	Apr. and	◆ The NGO held a one (1) or two (2) days training session each at the demonstration
of terraces	May 2014	plots and train 97 members to fix and improve contour bunds and ditches of contout
		compost terraces in the demonstration plots.
Application	Apr. 2013	◆ Despite the fact that the "two-step training approach" had not been introduced in
of techniques	to Mar.	Suco Tohumeta in the 1 <sup>st</sup> year, the members of the beneficiaries' groups had helped
to the	2014	each other apply the techniques that they learned in the demonstration plots to their
individual		own farms. As of the end of February 2014, all the members (85 members) had
farms		applied the key techniques on sustainable upland farming, such as compost making,
		contour compost application, plowing with compost application, planting of fruit
		trees, and application of liquid fertilizer, to their own farms.

### (3) Results of the First (1st) Year FFSs

The results of the 1st yea FFSs are summarized below

Summary of Results of the 1<sup>st</sup> Year FFSs and Technical Assistance

		ary of Resi			i i oo ana	TOOTHING	ASSISTANC	•			
Micro	Suco	Results of	f the Acti	vities							
Program											
SUFP with	Haautoho	A tota	l of three	(3) demons	tration plots	were devel	oped in Suco	Hautoho.			
CBSE-MP		<ul> <li>◆ A total of three (3) demonstration plots were developed in Suco Hautoho.</li> <li>◆ The beneficiaries' groups had harveted maize (improved), peanut (improved), and</li> </ul>									
							h a series of				
		tables	table shows the production of those crops planted in the demonstration plots.								
			Har	rvest volume a	t the demonstra	ation plots for	SUFP with CB	SE-MP	(unit: kg)		
		Suco	No. of	Maize (I	(mproved)	Peanuts (In	nproved)	Peanut	s (Local)		
			plots	Volume	Production	Volume	Production	Volume	Production		
				of Seed	<1	of Seed	<1	of Seed	<1		
		Hautoho	3 plots	6.7	526.5	5.5	104.0	3.0	66.0		
		Source: USC	-CTL (2014)	)							
		The a	verage rat	io of output	t (production	) of maize	to input (seed	ls) was hig	her than the		
		nation	al averag	e (50:1) but	t rather lowe	r than the	otential yield	d (100~150	):1). One of		
		the de	monstrati	on plots she	owed low pe	erformance	due to low s	oil fertility	along with		
							er plot sugge				
							g as soil and				
				ieve about s	o ton per nec	ctor as iong	g as son and	ciiiiate coi	iditions are		
		favorable.									
							groups in the				
		of see	ds for cre	opping in 2	014 as a res	sult of the	training cour	se on post	-harvesting.		
							d as seeds fo				
			below.	manze gran	115 1141 ( 0500 4	010 50.70	a as seeds re	or or opping	III 201 . W		
		SHOWI	i below.								
		Volume of Seeds stored for Cropping in 2013/2014									
									(unit: kg)		
		Suco		o. of plots	Maize (Imp		anuts (Improve		s (Local)		
		Hauto		olots		258.5	79	0.0	17.0		
			: USC-CTL								
IG/LD-MP	Hautoho						cticing the t				
		sewin	g machine	e and makin	ig dried swee	et potato or	their own in	tiative, the	groups had		
		not be	en able to	earn cash i	ncome from	the activiti	es in 2013/20	)14.			
SUB/PF-MP	Tohumeta						oped in Suco				
SOD/II-WII	Tonumeta										
									proved and		
1				a series of	FFSs and	harvested 1	them in the	demontrati	proved and on plots as		
			through below.	a series of	FFSs and	harvested 1	hem in the	demontrati			
							ts for SUB/PF-M		on plots as		
		showr	below.	Harvest volu	me at the demo	onstration plo	ts for SUB/PF-M	IP	on plots as  (unit: kg)		
			No. of	Harvest volu	me at the demo	onstration plo	ts for SUB/PF-M	IP Peanut	(unit: kg)		
		showr	below.	Harvest volu  Maize (I  Volume	me at the demo	Peanuts (Ir Volume	ts for SUB/PF-M	IP Peanut Volume	on plots as  (unit: kg)		
		showr	No. of plots	Harvest volu	me at the demo	onstration plo	ts for SUB/PF-M	IP Peanut	(unit: kg)		
		Suco	No. of plots  3 plots	Harvest volu  Maize (I  Volume of Seed  8.0	me at the demo	Peanuts (Ir Volume of Seed	nproved) Production	Peanut Volume of Seed	(unit: kg) s (Local) Production		

Micro Program	Suco	Results of the Activities
o g · min		<ul> <li>The average yield of maize was far higher than the national average. The results suggested that the techniques introduced could drastically improve the productivity of maize in the suco.</li> <li>Out of harvested maize, a total of 85 kg of maize or 10 to 15 kg of maize per group was saved and stored as seeds for cropping in 2014/2015. The amount of seeds stored by the groups was rather lower (about 8 % of the total harvests) than those saved in the other target villages, since the individual members of the groups were also able to produce sufficient amount of maize in their own farms.</li> </ul>

#### (4) Participatory Monitoring and Evaluation of the Micro Programs

In February/March 2014, the beneficiaries' groups and women groups of the micro programs in Sucos Hautoho and Tohumeta had a two-day meeting each for the micro programs to evaluate the results of the 1<sup>st</sup> year FFSs and develop an annual work plan of each micro program for the 2<sup>nd</sup> year.

It was agreed by the beneficiaries' groups and the NGOs in the meetings that:

- i) the two-step extension approach would be introduced in the 2<sup>nd</sup> year curriculum of SUFP with CBSE-MP to disseminate the key techniques as many members of the groups as possible;
- ii) priority would be given to marketing of products produced by the women groups of IG/LD-MP in Suco Hautoho so that they could be motivated to continue the activities; and
- iii) planting of fruit seedlings would be incoporated in the 2<sup>nd</sup> year curriculum of SUB/PF-MP since members of the beneficiaries' groups intened to introduce fruit trees in their farms to use them in an integrated manner.

#### (5) Second (2<sup>nd</sup>) Year FFSs and Technical Assistance

The  $2^{nd}$  year FFSs and other technical assitstane activities carried out in the  $2^{nd}$  batch village are summarized below.

Summary of the 2<sup>nd</sup> Year FFSs and Technical Assistance

a. SUFP with CE	a. SUFP with CBSE-MP in Suco Hautoho						
Topics /	Month of	Summary of Activities	3				
Techniques	training						
Reorganization of members of	Apr. 2014	,		,		beneficiaries groups	
the beneficiaries'		_		_	_	oups into sub-groups	
						The following table	
groups		shows the sub-grou	ps reorgar	nzed by the respe	ective groups.		
				zation of the Benefic			
		No. of groups		Sub- groups	Average No. of me		
		3 groups	10 sub-	-groups	8~13 members/sub- Total: 110 members		
		Source: RAEBIA Timor-Les	ste (2014)		Total. 110 members		
FFSs in the	May 2014		1 /	hands-on trainin	g sessions in the	main demonstration	
Main	– May	plots in Suco Hauto	ho.				
Demonstration	2015	•	FFSs a	t the Main Demonst	ration Plots		
Plots		Topic	Groups	Date of training		No. of participants	
		Compot making	3 groups	6 sessions from Ma		172 members in total	
		Maintenance of compost	3 groups	6 sessions from Ju 2014	in. 03 to Aug. 21,	191 members in total	
		Building of an anima pen	3 groups	3 sessions from Sep		97 members in total	
		Plowing and application of compost	3 groups	6 sessions from Se 2014	ep. 22 to Oct. 17,	215 members in total	
		Selection and sowing of seeds	3 groups	6 sessions on Nov. 2	24, 25, & 26, 2014	185 members in total	
		Making of liquid fertilizer	3 groups	6 sessions on Dec. 4	1 & 5, 2014	92 members in total	
		Farm maintenance (1st	3 groups	6 sessions on Dec. 1	17, 18, & 19, 2014	209 members in total	
		time)					

Topics / Techniques	Month of training	Summary of Ac	tivities	S			
reciniques	tranning	Planting of cassav sweet potato	a and	3 groups	7 sessions from Jan. 20 to 29, 2015	170 members in total	
		Fixing of terraces		3 groups	7 sessions from Jan. 19 to Mar. 3, 2015		
		Harvesting of red beans		3 groups	3 sessions on Jan. 29, 30, & 31, 2015	70 members in total	
		Farm maintenance time)	` _	3 groups	5 sessions from Jan. 12 to Feb. 3, 2015	139 members in total	
		Planting of green n (lehe)	nanure	3 groups	3 sessions from Jan. 28, 29, & 30 2015	70 members in total	
		Planting of fruit see	dlings	3 groups	4 sessions from Feb. 17 to 25, 2015	121 members in total	
		Harveting postharvesting of	and maize	3 groups	3 sessions on Apr. 14 and 15, 2015	77 members in total	
		Source: RAEBIA Time		(2015)			
					ng topics were added to the 1st ye	ear curriculum.	
		- Installation		_			
		- Planting of					
FFSs in the	May 2014	◆ Simultaneous	sly wit	th hands-c	on training at the main demonst	ration plots, the NGO	
Sub-group	– May	held hands-c	n trai	ning on l	key techniques of sustainable	pland farming at the	
Demonstration	2015	sub-group de					
Plots		8 - A		-	ions held in the Demonstration Pl	nte.	
11015		Topic <1 & 2			Date of training	No. of participants	
		Compost making	11 gro		22 sessionsl from May 22 to Jun. 13, 2014		
		Maintenance of compost	11 gro		22 sessions from Jul. 8 to Aug. 22, 2014	168 members in total	
		Delineation of contour lines	11 gro	oups 2	22 sessions from Jul. 3 to 11, 2014	106 members in total	
		Application of contour compost	11 gro	oups 2	22 sessions from Aug. 5 to 22, 2014	89 members in total	
		Plowing and application of compost	11 gro	oups 2	25 sessions from Sep. 3 to Oct 25, 2014	189 members in total	
		Farm maintenance (1 <sup>st</sup> )	11 gro		1 sessions from Dec. 27, 2014 to Jan. 30 2015	103 members in total	
		Planting of cassava and sweet potato	11 gro	oups 1	1 sessions from Jan. 7 to 28, 2015	84 members in total	
		Fixing of terraces	11 gro	oups 1	1 sessions from Feb 10 to Mar. 6, 2015	63 members in total	
		Harvesting of red bean and planting of green manure	11 gro	oups 1	1 sessions from Feb 19 to Mar. 4, 2015	91 members in total	
		Farm maintenance (2 <sup>nd</sup> )	11 gro	oups 1	1 sessions from Feb 3 to 13, 2015	74 members in total	
		Planting of fruit seedling	11 gro	oups 1	1 sessions from Feb 11 to 20, 2015	80 members in total	
		Harveting and postharvesting	11 gro	oups 1	1 sessions from Apr. 14 to 17, 2015	78 members in total	
		Note: <1 The topic of		neation of co our lines usin	ntour lines" is composed of two agenda:	i) making of A-frames and ii)	
			g course	es were arrai	nged according to the request from the ma	embers.	
Application of	May	◆ After the trai	ning s	sessions at	the sub-group demonstration p	lots, the members had	
techniques	2014–		_		ame techniques that they practic		
1	Mar. 2015				assistance from the NGO. As		
	1,141. 2013				ng key techniques to their own fa		
		- Compost p				шшэ.	
		- Contourt c					
		- Liquid fertilizer application (1st and 2nd maintenance)					

#### b. IG/LD-MP in Suco Hautoho

Topics	/		Summary of Activities					
Techniques		training						
Hands-on training		May- Nov. 2014	<ul> <li>The focus of the 2<sup>nd</sup> year curriclum was put on improvement of skills and techniques of members of the women groups, so that they could produce products/commodities marketable in Dili.</li> <li>The following hands-on training sessions had been arranged and held by the NGO in the 2<sup>nd</sup> year.</li> </ul>					
			Hands-on Training Sessions held in the 2 <sup>nd</sup> Year Curriculum					
			Topics	No. of Sessions	Date of Session	No. of participants		
			Salted vegetables	2 sessions	May 30 & Aug. 5, 2014	More than 20 members in total		
			Kontas chips making	1 session	Jun. 24, 2014	10 members		
			Use of sewing machines	2 times of 4 sessions	Jun. 25-28 & Nov. 18-21, 2014	128 members in total		
			Source: RAEBIA Timor-Le	ste (2015)		_		

Topics / Techniques	Month of training	Summary of Activities
	3	<ul> <li>◆ As a result of the training courses on salted vegetables, the women groups produced a total of 14 packs of salted vegetables using about 11 kg of mustards and 5 kg of chayote.</li> <li>◆ Through the training session on kontas chips making, the women group learned to produce marketable chips using kontas (a kind of tubers which have been used as an emergency food during the food shortage period).</li> <li>◆ In the first four (4) sessions on the use of sewing machines, the group members learned to operate and maintain sewing machines, while they made clothes by using sewing machines in the second four (4) sessions.</li> </ul>
On-the-Job Training	May 2014 – Mar. 2015	<ul> <li>◆ The women groups had continued practicing the production of kontas chips to improve the flavor and quality of chips from July to November 2014. They had a total of nine (9) OJT sesssions and ended in producing two (2) types of flavored kontas chips, ginger flavor and clove flavor. In October 2014, the women groups started delivering kontas chips to major supermarkets on a consignment agreement and had been able to diliver 32 packages to two (2) shops. However, they suspended the production of kontas chips in January due to a shortage of raw material.</li> <li>◆ They also had practiced sewing machines after the hands-on training sessions. In fact, the groups have earned petty cash income from mending clothes by using sewing machines.</li> <li>◆ Like in Suco Fadabloco, the members of the groups had also continued the production of herbal tea made of daleta leaves to fulfill the requet from PARCIC. As of the end of March 2015, the members have produced about 1 kg of herbal tea and delivered the same to PARCIC via the NGO.</li> </ul>
Participation in the Exihibition of Local Agricultural Produts	Feb. 2015	◆ The women groups of IG/LD-MP in Sucos Fadabloco and Hautoho were invited by PARCIC to the exhibition of local agricultural commodities held in Dili on February 20 and 21, 2015. One of the leaders of the women's groups took part in the exhibition together with the leader from Suco Fadabloco and made a presentation of the products in the exhibition
Discussion on benefit sharing	Mar. 2015	◆ As the women groups in Suco Hautoho had already started earning cash income from the production of canna (kontas) chips and use of sewing machines, the NGO and the JICA Project Team had a meeting with 11 members of the groups to discuss how they would use and manage the earnings. In the meeting, the members studied the rules and systems developed by the groups in Suco Fadabloco and agreed to adopt the same rules/systems for operations of their earnings.

#### c. SUB/PF-MP in Suco Tohumeta

c. SUB/PF-MP in Suco Tohumeta								
Topics / Techniques	Month of training	Summary of Activities	Summary of Activities					
FFSs in the	May 2014	◆ The NGO held the	following	hands-on training sessions in the	demonstration plots			
Demonstration	- May	in Suco Tohumeta.	_	_	_			
Plots	2015	Topic	Groups	Date of training	No. of participants			
		Making of seedling beds	8 groups	8 sessions from Mar. 5 to 12, 2014	111 members in total			
		Sowing of seeds	8 groups	16 sessions from Mar. 18 to Apr. 3, 2014	75 members in total			
		Compost making	8 groups	16 sessions from Mar. 25 to Apr. 9, 2014	145 members in total			
		Maintenance of compost	8 groups	8 sessions on Jul. 14, 15 & 16, 2014	42 members in total			
		Delineation of contour lines and application of contour compost	8 groups	8 sessions from Jul. 22 to Aug. 27, 2014	65 members in total			
		Plowing and application of compost	8 groups	16 sessions from Sep. 2 and 24, 2014	124 members in total			
		Selection and sowing of seeds	8 groups	8 sessions from Oct. 28 to Nov. 7, 2014	63 members in total			
		Preparation of liquid fertilizer	8 groups	8 sessions from Nov. 10 to 19, 2014	57 members in total			
		Farm maintenance (1st)	8 groups	11 sessions from Dec. 2 to 12, 2014	46 members in total			
		Farm maintenance (2 <sup>nd</sup> )	8 groups	8 sessions from Jan. 6 to 15, 2015	57 members in total			
		Trimming and application of mulches	8 groups	8 sessions from Jan. 26 and 30, 2015	58 members in total			
		planting of fodder crops/trees	8 groups	8 sessions from Feb. 3 to 13, 2015	41 members in total			
		Harvesting	8 groups	8 sessions from Mar. 26 to Apr. 8, 2015	45 members in total			
		Post-harvesting	8 groups	10 sessions from May 4 to 22, 2015	61 members in total			

Topics Techniques	/	Month of training	Summary of Activities				
1			Source: Halarae(2015	·)			
Application techniques	of	May 2014  — May 2015	◆ After handsbeneficiaries' in the demon working syste techniques as ✓ Production of materials ✓ Application composting ✓ Application ✓ Preparation ✓ Application ✓ Mulching a ✓ Planting of ◆ Furthermore,	on training sessi groups had helpe astration plots to the em named "haros" of the end of Mar of compost (colle s) of contour comp terraces) of compost of liquid fertilizes of liquid fertilizes s greeen manure fodder trees in ter	ed each other app their own farms: an." All the 85 r.: 2015. ction of materials oosting terraces (e	ly the techniques following the cus nembers had appoint appoin	members of the that they practied stomary collective lied the following als, and turn-over areas with contour
Production seedlings	of	May 2014– Feb. 2015	<ul> <li>◆ After hands-on training in transplnting sprouts of seedlings into poly bags in the nursery, all the members recieved their quota and had maintained their seedlings their backyards.</li> <li>◆ A monitoring survey made by the NGO revealed that about 50% of seedlings grow by members died before planting.</li> <li>No. of group No. of members Rambutan+Longan+Sandalwood Ditributed Dead Planted</li> <li>8 groups 85 members 3,383 1,700 1,656</li> <li>Source: Halarae Foundation (2015)</li> </ul>			their seedlings at f seedlings grown	

### (6) Results of the Second (2<sup>nd</sup>) Year FFSs

The results of the 2<sup>nd</sup> year FFSs are summarized below.

Summary of Results of the 2<sup>nd</sup> Year FFSs and Technical Assistance

Mioro	Cuas					Results of the Activities					
Micro Program	Suco	Results of	the Acti	viues							
SUFP with	Hautoho	◆ The beneficiaries' groups had grown maize (improved), peanut (improved), and red									
CBSE-MP	114410110			C 1	0	` I	series of FFS	` 1			
CDSL-WII							demonstration		owing table		
		SHOWS	the produ	iction of the	ose crops pia	inted in the	uemonstratio	on piots.			
					t the demonstr	ation plots for	SUFP with CB	SE-MP			
		a. Main demo			•	1	•		(unit: kg)		
		Suco	No. of		mproved)	Peanuts (In			n (Local)		
			plots	Volume	Production	Volume	Production	Volume	Production		
		Hautoho	3 plots	of Seed 6.0	<1 500.0	of Seed 6.0	<1 132.0	of Seed 6.0	<b>&lt;1</b> 58.0		
		Hautono	5 piots	0.0	300.0	0.0	132.0	0.0	36.0		
		b. Sub-group	demontratio	n plot					(unit: kg)		
		Suco	No. of	Maize (I	mproved)	Peanuts (In		Redbea	ın (Local)		
			plots	Volume	Production	Volume	Production	Volume	Production		
				of Seed	<1	of Seed	<1	of Seed	<1		
		Hautoho Source: RAE	3 plots	22.0	802.0	2.0	23.0	22.0	97.0		
		rather not as  It was maize  The be	higher the high as ex- considered and cause eneficiaries ng in the	an the natic expected. ed that a dry ed a rather I es' groups s main and	onal average y spell in Jar ow yield of ecured a tota ub-group de	e, while the nuary and F maize. al of 579 kg monstration	lemonstration reults in the Sebruary 2013 g of of impro n plots as ot	e sub-group  5 affeted the oved seeds of	e growth of of maize for		
		Г	Ç		of Seeds stored		<u> </u>	(unit:	kg)		
			Suco Hautoho	Maize (In		eanuts (Impro 115.0	ved) Bean	71.0			
		L		EBIA Timor-L		113.0		/1.0	_		
L			Source. IA	LDIA TIMUI-L	ESIE (2013)						

Micro Program	Suco	Results of the Activities					
IG/LD-MP	Hautoho	<ul> <li>♦ The women groups have produced more than 200 packages of kontas chips through a series of hands-on training and OJT in producing kontas chips since July 2014. The women groups have been able to improve the quality of kontas chips and finally sel the products at the majot super markets in Dili. As of the end of Juy 2015, the groups have delivered more than 400 packages of kontas chips to the major supermarkets in Dili to sell the product on a consignment agreement and earned about US\$ 700 from the sales (at the price of US\$ 1.6/packge).</li> <li>♦ A total of seven (7) members of the groups have produced about 1.5 kg of herbal tea and earned about US\$ 22 from the sales of herbal tea to PARCIC.</li> <li>♦ The groups have also been able to earn cash income from mending clothes by using sewing machines as a result of continuous OJT in operating the machines.</li> </ul>					
SUB/PF-MP	Tohumeta	◆ The average productivity of maize grown in the demonstration plots was twice as high as that of the national average. In all the demonstration plots, the ratio of production to volume of seeds sown was more than 100. The results suggested that the average yield of maize in farms where the same techniques were introduced might be more or less 2 ton/ha. Harvest volume at the demonstration plots					
		Suco No. of plots Maize (Improved)					
		Volume of Seed Production <1					
		Tohuneta 8 plots 22.0 2,870.0					
		Source: RAEBIA Timor-Leste (2015)					
		◆ Each beneficiaries' group saved 10 to 20 kg of maize from the harvest. A total of 100					
		kg of improved seeds were secured for cropping in 2015/2016.					

#### (7) Final Evaluation of the Micro Programs

Lik in the case of the 1<sup>st</sup> batch sucos, the NGOs arranged and held a one-day meeting each for the respective micro programs with the beneficiaries'/women groups on the following dates to help the members evaluate the results of the micro programs and develop work plans of the respective micro programs.

Final Evaluation Meetings held at Hautoho and Tohumeta

Micro program	Suco	Date	No. of participants
SUFP with CBSE-MP	Hautoho	July 2, 2015	34 members from both
IG/LD-MP	Hautoho	July 2, 2015	micro programs
SUB/PF-MP	Tohumeta	June 17, 2015	29 members

Source: JICA Project Team (2015)

The beneficiaries' and women groups reviewed their prformance and results of the micro programs, discused any difficulties that they had faced, evaluated the effectiveness and applicability of the techniques introduced by the micro programs in the meetings. They also discussed an annual work plan of each micro program in 2015/2016 as all the groups showed their intention to continue the micro program activities even after the end of the support from JICA.

**Appendix-3.9** stored in the CD attached to this report shows the work plans developed by the beneficiaries' groups of the micro programs.

#### 3.6 Exchange Visits (Harvesting Ceremonies) at the Target Villages

Over the course of imlementation of the micro programs, the JICA Project Team and the NGOs have arranged and organized harvesting ceremonies in Suco Fadabloco and Tohumeta in 2014 and 2015, respectively, as exchange visits for villge leaders and key members of the beneficiaries' groups in all the taget sucos.

Exchange Visits arranged for the Beneficiaries'/Women Groups

Event	Date	Venue	No. of Particiapnts	Remarks
Hrvesting	Mar. 13, 2014	Hautoho	111 members from	Representatives from NDF, MAF district
ceremony			six sucos	office, JICA TL office, GIZ, and HASAT
				attended the ceremony.
Hrvesting	Mar. 26, 2015	Tohhumeta	26 members from 5	DG of MAF (forestry), Director of MAF
ceremony			sucos	district office, Administrator of Laulara
				sub-district administrative office, and
				representatives of NDF and RAEBIA
				attended the ceremony.

The main aim of the exchange visits was to motivate village leaders and key members of the beneficiaries'/women groups to work on the micro programs after observing substantial results generated by similar farmers in the field and share lessons learned among the members to improve the micro program activities. In the ceremonies, village leaders and key members of the host communities introduced their activities and results of the micro programs and had meetings with visitors to exchange their views. The exchange visits became a good opportunity not only for the participants to get stimulated but also for communities in the host sucos to enhance their senses of ownership of the micro programs.

#### 3.7 Establishment of the Watershed Management Council

#### 3.7.1 Background

The incidence of forest fires, illegal cutting, and crop damage caused by animal grazing has been reduced since the village regulations were in place in the target sucos. However, there have been still some illegal cases happening in the sucos as it is almost impossible for the village regulations in the target sucos to regulate and control illegal activities caused by people living in the neighboring sucos. Given the fact that the effectiveness of the village regulations in the target sucos is limited to communities orgniationally belonging to the sucos, the JICA Project Team and the NGO decided to form a platform where the target and the neighboring sucos could have dialogues and take necessary actions for sustainable management and conservation of natural resource at the sub-watershed level. Furthermore, the JICA Project Team considered that the platform could function as an institutional framework to scale up the CB-NRM mechanism from the village level to the sub-ditrict/sub-watershed level.

To this end, the JICA and MAF Project Teams together with the NGO have had a series of meetings with leaders of two (2) sub-district administrative offices and 12 sucos including Faturasa, Fadabloco, and Hautoho, which geologically relate to the Noru sub-watershed. The processes and results of the formation of the watershed management council of the Noru watershed are outlined in the following sections. More details of the results of the activities are given in **Appendix-3.9** stored in the CD attached to this report.

#### 3.7.2 Target Area

As forest fires and animal grazing caused by the neighboring sucos were crucial issues in Suco Faturasa and Fadabloco, the JICA Project Team selected the Noru sub-watershed where those villages were located as a target watershed for this purpose. The Noru watershed is one of the sub-watersheds of the Laclo river basin and overlaps its territory with 12 sucos, six (6) sucos administratively located in Sub-district Remexio and another six (6) located in Sub-district Liquidoe. The following table shows the sub-districts and sucos relating to the Noru watershed.

Sub-districts and Suco relating to the Noru Watershed

Area of the watershed	Related Sub-districts	Related Sucos
12,851 ha	Remexio	Asumau, Faturasa, Fahisoi, Fadabloco, Hautoho, Maumeta
	Liquidoe	Ftrilau, Bereleu, Acubili Toho, Namcleso, Manucasa, and Fahisoi

Source: JICA Project Team (2014)

#### 3.7.3 Major Activities for Establishment of the Watershed Management Council

The following four (4) types of activities have been carried out to establish and institutionalize a watershed management council of the Noru watershed.

- i) Meetings with leaders of sucos and sub-district administrative offices relevant to the Noru watershed to form a watershed management council;
- ii) Development of a watershed management plan for the Noru watershed through dialogues with members of the watershed management council; and
- iii) Meetings with the members of the watershed management council to monitor the situation of the watershed, especially any events and activities affecting natural resource management in the watershed.

The following key stakeholders have been involved in the above-mentioned activities.

- Sub-distruct administrations of the Sub-district Administrative Offices of Remexio and Liquidoe;
- Chefs de Suco of Six (6) Sucos in Remexio Sub-district (Sucos Faturasa, Fadabloco, Hautoho, Fahisoi, Maumeta, and Asumau);
- Chefs de Suco of Six (6) Sucos in Liquidoe Sub-district (Sucos Fahisoi, Faturilau, Bereleu, Acubili, Namcleso, and Manucasa);
- Director of District Office of the National Directorate of Environment in Aileu;
- Director of Sub-district Offices of the National Directorate of Water Supply and Sanitation in Sub-district Remexio and Liquidoe;
- Director / Chief of Department of the National Directorate of Forest and Watershed Management; and
- Director of MAF District Office in Aileu.

#### (1) Meetings for Establishment of the Watershed Management Council

To establish the watershed management council, the JICA Project Team and the NGO have held the following meetings with the aforementioned stakeholders.

meetings for Establishment of the Watershed Management Council						
Meetings	Date		No. of prticipants	Venue	Purposes	
Consultation with sub-district	May 2014	6,	5 participants	Sub-district Administrative Office of Remexio	To obtain consent from sub-district administrators concerned on the formation of the watershed	
administrative offices	May 2014	27,	5 participants	Sub-district Administrative Office of Liquidoe	management council To seek assistance in the organization of meetings for the formation of the council	
Consultation with village leaders	June 2014	6,	14 participants	Sub-district Administrative Office of Remexio	<ul> <li>To obtain consent from village leaders concerned on the formation of the council</li> <li>To expain major activities for the</li> </ul>	
	June 2014	17,	10 participants	Sub-district Administrative Office of Liquidoe	formation of the council	
Study tour to the target suco	June 2014	18,	15 participants	Suco Fadabloco Suco Faturasa	► To introduce activities and results of the CB-NRM mechanism	

Meetings	Date	No. of prticipants	Venue	Purposes
Study tour to the Raumoco watershed	June 25, 2014	16 participants	Sub-district Administrative Office of Luro, Lauten	➤ To introduce the existing watershed management council and their activities
Meeting for stakeholder analysis	July 8, 2014	14 participants	Sub-district Administrative Office of Liquidoe	<ul> <li>To identify relevant stakeholdes and analyze importace of the stakeholders for watershed management</li> <li>To identify members of the council</li> </ul>
Meeting for situation analysis	July 18, 2014	14 participants	Sub-district Administrative Office of Remexio	<ul> <li>To assess the current conditions of the waterhed</li> <li>To identify causes of forest and watershed degradation</li> </ul>
Meeting for future visioning	July 25, 2014	14 participants	Sub-district Administrative Office of Liquidoe	<ul> <li>To discuss and determine the future vision of the watershed</li> <li>To discuss missions, objectives, and functions of the council</li> </ul>
Discussion on draft bylaws, vision, missions.	August 21, 2014	15 participants	Sub-district Administrative Office of Remexio	<ul> <li>To dicuss bylaws of the council</li> <li>To discuss and finalize the vision, missions, objectives, and functions of the council</li> </ul>

As a result of a series of discussions listed above, the members of the watershed management council developed the resolution on the formation the Noru watershed management council which consists of the following documents:



Discussion of visions of the council

- ► List of members of the council with roles and responsibilities of the respective members;
- ▶ By-laws of the council; and
- ▶ Vision, missions, objectives, and functions of the council.

#### (2) Meetings for Development of a Watershed Management Plan

Pursuant to the bylaws of the watershed management council, the council has held a total of five (5) reguar meetings by having a meeting on a qurterly basis. The following table shows the major topics discussed and results of the discussions in the respective meetings.

	IV	leetings for Plannii	Meetings for Planning of the Draft Watershed Management Plan						
Meeting	Date	No. of prticipants	Venue	Topics					
1 <sup>st</sup> meeting	September 30, 2014	15 participants	Sub-district Administrative Office of Liquidoe	<ul> <li>Purpose of a watershed management plan</li> <li>Outline of the watershed management plan of the Laclo nd Comoro river basins</li> </ul>					
2 <sup>nd</sup> meeting	October 10, 2014	15 participants	Sub-district Administrative Office of Remexio	<ul> <li>Present conditions of the Noru watershed</li> <li>Draft version of Chapters 1 and 2 of the plan</li> </ul>					
3 <sup>rd</sup> meeting	October 23, 2014	17 participants	Sub-district Administrative Office of Liquidoe	<ul> <li>Current issues and concernes on watershed management</li> <li>Objectives of the watershed management plan</li> <li>Draft version of Chapters 3 and 4 of the plan</li> </ul>					
4 <sup>th</sup> meeting	November 07, 2014	18 participatns	Sub-district Administrative Office of Remexio	<ul> <li>Outline of the watershed management plan</li> <li>Draft version of Chapters 5 and 6 of the plan</li> </ul>					
5 <sup>th</sup> meeting	January 23, 2015	16 participatns	Sub-district Administrative	Final version of the watershed management plan					

Meeting	Date	No. of prticipants	Venue	Topics
			Office of Liquidoe	▶ Draft resolution on the submission of the watershed management plan
6 <sup>th</sup> meeting	February 26, 2015	18 participatns	Sub-district Administrative Office of Remexio	<ul> <li>Final version of the resolution</li> <li>Submission of the watershed management plan</li> </ul>

By the end of February 2015, the council developed the watershed management plan composed of the following six (6) chapters.

Chapter 1 Introduction

Chapter 2 Present Conditions of the Noru Watershed

Chapter 3 Current Issues on Watershed Management and Stakeholders relevant to Watershed Management

Chapter 4 Goal and Strategic Objectives of the Watershed Management Plan

Chapter 5 Watershed Management Plan

Chapter 6 Implementation Plan

#### (3) Regular Meetings to Monitor the Situations of the Watershed

Pursuant to the bylaws of the watershed management council, the council has held a total of five (5) reguar meetings having a meeting on a qurterly basis. The following table shows the major topics discussed and results of the discussions in the respective meetings.

Regular Meetings held by the Watershed Management Council

Meeting	Date	No. of prticipants	Venue	Topics
1 <sup>st</sup> regular	September	15 participants	Sub-district	▶ Present conditions of 12 sucos
meeting	30, 2014		Administrative	Forest fires in the area
			Office of Liquidoe	<ul> <li>Resolution on establishment of the council</li> </ul>
2 <sup>nd</sup> regular	January	16 participants	Sub-district	▶ Present conditions of 12 sucos
meeting	23, 2015		Administrative	Watershed management plan
			Office of Liquidoe	
3 <sup>rd</sup> regular	March 27,	15 participants	Sub-district	<ul> <li>Present conditions of 12 sucos</li> </ul>
meeting	2015		Administrative	<ul><li>Resolution on submission of the plan</li></ul>
			Office of Liquidoe	_
4 <sup>th</sup> regular	June 26,	17 participatns	Sub-district	▶ Present conditions of 12 sucos
meeting	2015		Administrative	<ul> <li>Customary ceremony to prevent wildfires</li> </ul>
			Office of Remexio	▶ Requirement of seedlings for improvement
				of micro catchments in the area
5 <sup>th</sup> regular	Octoberr	17 participatns	Sub-district	<ul><li>Present conditions of 12 sucos</li></ul>
meeting	2, 2015		Administrative	<ul> <li>Draft resolution with a request/proposal for</li> </ul>
			Office of Remexio	provision of seedlings for improvement of
				micro catchments in the area

Source: JICA Project Team (2015)

In the meetings, the members of the council from the 12 sucos (chef de suco or representatives) first reported the situations of the respective sucos, particularly any issues and concerns on natural resource management, and discussed necessary actions to be taken if there were any issues that the members or council needed to address



2<sup>nd</sup> regular meeting at Liquidoe

collaborately. The members also discussed other matters relating to management of the watershed management council as shown above. The memos of the regular meetings listed above are shown in **Appendix-3.10** stored in the CD attached this report.

#### Chapter 4 Results of the Activities under Output 2

#### 4.1 Preparation of Training Materials and Capacity Development Plans

#### 4.1.1 Orientation for the Counterparts from the MAF District Office in Aileu

In February 2011, the JICA and MAF Project Team jointly held an orientation seminar for the counterparts from the MAF District Office in Aileu, especially extensionists and forest guards, to make them aware of their new assignments for the Project. A total of 17 counterparts attended the seminar. The agenda of the orientation was as follows:

- 1) Explanation of project background and purpose of the seminar;
- 2) Presentation of the outline of the Project;
- 3) Guidance on the functions of the counterparts; and
- 4) Questions and answers (Open discussions).



**Orientation for the Counterparts** 

## 4.1.2 Development of a MAF Administrative Order on the Appointment of the Counterparts with Operation Guidelines

The JICA Project Team drafted a government order on the appointment of the counterparts for the Project with operation guidelines for the counterparts through discussions with NDF. The draft order was submitted to NDF in January 2011, and officially approved by MAF in the end of the same month. The JICA Project Team expalined the operation guidelines, especially roles and responsibilities of the counterparts desribed in the guidelines, to the counterparts in the weekly meetings with the counterparts, so that they could understand their roles in the Project.

The order and gudielines were further amneded in May 2011 to improve the communication between the JICA Project Team and the counterparts and facilitate the smooth implementation of the Project. The amendment was officially approved by General Director of MAF on July 20, 2011 (Ref: No. 891/GDG/VII/2011) as shown in **Appendix-4.1** stored in the CD attached to this report. The same was shared with the counterparts in the same month.

#### 4.1.3 Collection of Useful Existing CB-NRM Practices and Technologies

In order to develop materials for technical seminrs/training courses for the ounterparts on techniques relevant to CB-NRM, the JICA Project Team collected a total of 49 types of existing technical documents, such as manuals, guidebooks, guidelines, handbooks, and any other technical references from NDF, NGOs, and other donor-funded projects in February and March 2011. Some documents were also downloaded from the relevant web-sites for those still new to the country. **Appendix-4.2** stored in the CD attached to this report shows the list of the documents collected by the JICA Project Team, and the following tables show its summary.

Documents collected by the JICA Project Team on CB-NRM Techniques

Sector	Key words	No. of documents
Forestry	Forestry, Silviculture, Agroforestry	7
Land use planning	Land use planning, Land allocation	8
Agriculture	Crop production and agroforestry	15
Livelihood	NTFP, Processing, Enterprise development	10

Sector	Key words	No. of documents
Others	Medicinal plant, Natural resource management, greening	9
Total		49

#### 4.1.4 Training Need Assessment (TNA)

#### (1) Conduct of aTNA Survey

In order to assess the gaps between the expected responsibilities of the counterparts and their current capacities or skills, the JICA Project Team conducted a training need assessment survey (TNA survey) using a set of questionnaires. Prior to the survey, the JICA Project Team fully explained the outlines of the survey to the counterparts so that they would provide their personal information with the understanding of the aim of the survey.



TNA targeting the Counterparts

The questionnaires designed to collect the following information were distributed to 20 counterparts in February 2011.

- Education attainment and past training experience
- Main duties and/or tasks of the staff in the office/unit that he/she belongs to
- Self-assessment of competence for the present roles
- Self-assessment of understanding level or skill level of the relevant techniques
- Ideas on the effective training methods

A total of 19 sets of questionnaires were collected from the counterparts and used for assessment. Interviews to the supervisors of the counterparts were also conducted to clarify the training needs of the counterparts from the managers' point of view.

#### (2) Analysis of the Results of the Training Needs Assessment Survey

Having analyzed the collected questionnaires and the results of the interviews to the supervisors, the JICA Project Team identified the gaps in the counterparts' capacities to be filled for them to implement a project/program similar in nature to the Project. Some highlights of the analysis are summarized in the following sections. Detailed results of the assessment are shown in **Appendix-4.3** stored in the CD attached to this report.

#### a. General Training Needs

The results of the self-assessment showed that all the counterparts were willing to improve their current skills, although most of them were satisfied with their performance as well as current skill level as compared to their tasks and responsibilities. However, the interviews to the supervisors revealed that they were not necessarily satisfied with the current performance and capacities of the counterparts.

#### Answers to the Questions on the General Training Needs

**Self-evaluation by Counterparts** 

oon oranaanon	our ovaluation by obunto parto						
Topics	NDF	DOF*	Other District officers	Forest guards	Extensionists	Secretary	
Willingness to improve skills	Yes	Yes	Yes	Yes	Yes	Yes	
Matching of roles with qualification and abilities		Just match	Just match – Personnel qualification is	Too difficult - Just match	Bit difficult – Just match	Just enough	

Topics		NDF	DOF*	Other District officers	Forest guards	Extensionists	Secretary
				too high for present work			
Level satisfaction aboresent performance	of out	Need some improvement- Very satisfactory	Need some improvement -Very satisfactory	Need some improvement-O utstanding	Need some improvement- Outstanding	Fair-Outstandi ng	Very satisfactory
	vel /ith	Bit inadequate - Just enough	Just enough	Just enough	Just enough - More than enough	Just enough - More than enough	Just enough

Note\*: Technical staff in Forestry is included.

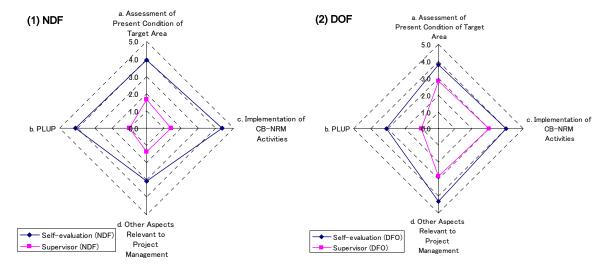
**Evaluation by Supervisors** 

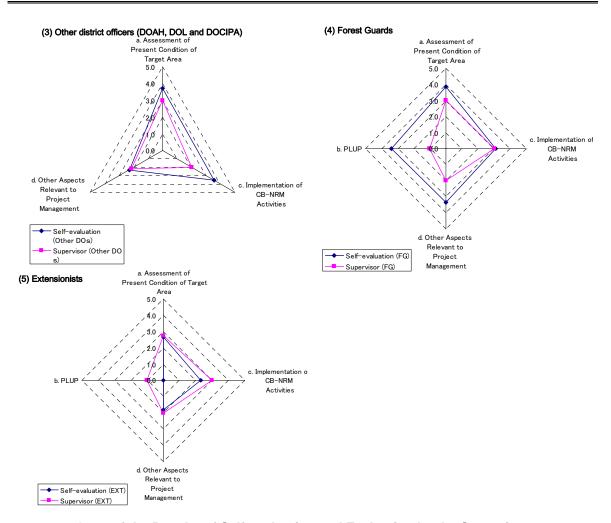
= raidation by caper in					
Topics	SV for NDF	SV for DFOs	SV for other district officers	SV for Forest Guards	SV for extensionists
Understanding level of	Fair	Fair-Relatively	Fair	Fair	Fair
duties/responsibilities		high			
Fulfillment level of	Fair	Fair-Relatively	Fair	Fair	Fair
duties/responsibilities		high			
Understanding level of roles	Relatively	Fair-Relatively	Fair	Fair	Fair
and tasks of organization	low	high			
Coordination between/among	Fair	Fair-Relatively	Fair	Fair	Fair
units of the office		high			

Source: JICA Project Team (2011)

#### b. Gaps in the Counterparts' Capacities for Implementation of a CB-NRM Project

The counterparts' capacities for implementation of a CB-NRM project/program or a project/program similar in nature to the JICA Project were evaluated in terms of the following four points: i) knowledge and skills on situation analysis of target areas; ii) knowledge and skills on participatory land use planning; iii) knowledge and skills on the implementation of CB-NRM activities; and iv) skills and ability on other matters relevant to project management. The results of the surveys revealed that the counterparts needed to enhance their skills and knowledge of all the four points to enable them to implement a CB-NRM project in future. The following diagrams show the gaps between the self-evaluation and supervisors' evaluation of the capacities of the counterparts.





Gaps of the Results of Self-evaluation and Evaluation by the Supervisor

#### (3) Preparation of the Capacity Development Plan for the Counterparts

Based on the results of the training need assessment and consultation meetings with the counterparts, the JICA Project Team prepared the capacity development plan in June/July 2011.

The capacity development plan was further revised and updated by the JIC Project Team in May 2013 to i) make its goal more realistic and achievable as compared to the capacity level of the counterparts and ii) revise the training curricula for the counterparts according to the revised goal. Having had a serie of meetings with the counterparts, the JICA Project Team finalized and submitted the revised capacity development plan to NDF/MAF in July 2013.

**Appendix-4.4** stored in the CD attached to this report shows the revised capacity development plan, and the following table shows the capacity development frameworks developed for the respective types of counterparts in the revised plan.

#### **Capacity Develoment Frameworks for the Counterparts**

#### a. Central NDF Staff

Timeframe	Step 1 (Awareness phase)	Step 2 (Understanding phase)	Step 3 (Practice phase)
Aim of Cap Dev	<ul> <li>➤ Make C/Ps aware of the overall process of CB-NRM</li> <li>➤ Make C/Ps aware of the process of introduction of CB-NRM on a village level</li> </ul>	<ul> <li>➢ Help C/Ps understand the processes and procedures for implementation of a CB-NRM project.</li> <li>➢ Help CPs understand how to guide and orient local communities towards sustainable management of forest resources.</li> <li>➢ Help C/Ps understand how to monitor and supervise the NGOs' activities and provide effective guidance to the NGOs.</li> </ul>	<ul> <li>Develop C/Ps' capacity to implement a CB-NRM project in coordination with relevant stakeholders.</li> <li>Develop C/Ps' capacity to monitor, supervise and evaluate the NGO's/contractor's activities.</li> <li>Develop C/Ps' capacity to provide technical guidance to other NDF/MAF staff on the process of CB-NRM as well as the forest and agroforestry techniques.</li> </ul>
Timing	May 2011 – March 2012	May 2011 – March 2015	May 2013 – October 2015 (to be extended by NDF)
Project Activities related	<ul> <li>➤ Regular meetings with JICA         Project Team     </li> <li>➤ Guidance/Introductory meetings         for MAF/NDF     </li> <li>➤ Technical seminars</li> <li>➤ OJT in monitoring the project activities</li> </ul>	<ul> <li>OJT in monitoring the project activities and making a monitoring report</li> <li>OJT in helping local leaders manage natural resources using the village regulations</li> <li>Technical seminars</li> <li>Regular meetings with JICA Project Team</li> <li>Guidance/Introductory meetings for MAF/NDF</li> </ul>	PLUP (Trial application of PRA
Responsible bodies	> JICA Project Team	> JICA Project Team > NGO (Supporter in OJT)	➤ NDF  ➤ JICA Project Team

b. District Forestry Officers

b. District Forestry Officers							
Timeframe	Step 1 (Awareness phase)	Step 2 (Understanding phase)	Step 3 (Practice phase)				
Aim of Cap Dev	<ul> <li>➤ Make C/Ps aware of the overall process of CB-NRM</li> <li>➤ Make C/Ps aware of the process of introduction of CB-NRM on a village level</li> </ul>	<ul> <li>Help C/Ps understand the processes and procedures for PLUP and selection of micro programs.</li> <li>Help C/P understand how to guide and orient local communities towards sustainable management of forest resources.</li> <li>Help C/Ps understand how to monitor and supervise the NGOs' activities and provide effective guidance to the NGOs.</li> </ul>	<ul> <li>Develop C/P's capacity to make an annual work and budget plan for the conduct of CB-NRM activities in the district.</li> <li>Develop C/Ps' capacities to monitor, supervise and evaluate the NGO's/contractor's activities and to prepare a report on monitoring and evaluation.</li> <li>Develop C/Ps' capacity to provide technical guidance to extensionists and local communities on PLUP and the forestry/agroforestry techniques.</li> </ul>				
Timing	May 2011 – March 2012	May 2011 – March 2015	May 2013 – October 2015 (to be extended by NDF)				
Project Activities related	<ul> <li>Regular meetings with JICA         Project Team         ➤ Guidance/Introductory meetings             for MAF/NDF         ➤ Technical seminars         ➤ OJT in monitoring the project             activities     </li> </ul>	<ul> <li>OJT in monitoring the project activities and making a monitoring report</li> <li>OJT in helping local leaders manage natural resources using the village regulations</li> <li>Technical seminars</li> <li>Regular meetings with JICA Project Team</li> <li>TOT seminars (Presentation / Guidance to other MAF Staff)</li> </ul>	<ul> <li>Seminar/workshop on annual planning</li> <li>Technical guidance for the staff of NDF and MAF (TOT)</li> <li>OJT in training local communities on the techniques related to the NDF 's tasks</li> <li>OJT in the conducts of PRA and PLUP (Trial application of PRA and PLUP to the neighboring villages)</li> </ul>				
Responsible bodies	> JICA Project Team	> JICA Project Team > NGO (Supporter in OJT)	➤ NDF ➤ JICA Project Team				

#### c. Forest Guards

Timeframe	Step 1 (Awareness phase)	Step 2 (Understanding phase)	Step 3 (Practice phase)	
Aim of Cap Dev	Make C/Ps aware of the importance/effectiveness of CB-NRM and overall process of PLUP	<ul> <li>Help C/Ps understand the processes and procedures for PLUP.</li> <li>Help C/Ps understand their roles in the enforcement and implementation of the village regulations to protect forest on a village level.</li> <li>Help C/Ps understand how to monitor and supervise the NGOs' activities.</li> </ul>	<ul> <li>➤ Develop C/Ps' capacity to assist the NGO/contractor or District Forestry Officer in the implementation of PLUP.</li> <li>➤ Develop C/Ps' capacity to assist local leaders in the management and protection of forest and natural resources by using the village regulations.</li> <li>➤ Develop C/Ps' capacity to monitor the activities of the NGO/contractor and make a monitoring report to NDF.</li> </ul>	
Project Activities related	May 2011 – March 2012  Regular meetings with JICA Project Team Technical seminars OJT in monitoring the project activities	May 2011 – March 2015  > OJT in monitoring the project activities and making a monitoring report  > OJT in helping local leaders manage natural resources using	May 2013 – October 2015 (to be extended by NDF)  > OJT in monitoring the project activities and making a monitoring report  > OJT in helping local leaders manage natural resources using	
Responsible	➤ JICA Project Team	the village regulations  Technical seminars  Regular meetings with JICA Project Team  TOT seminars (Presentation / Guidance to other MAF Staff)  JICA Project Team	the village regulations  > OJT in the conducts of PRA and PLUP (Trial application of PRA and PLUP to the neighboring villages) with Central NDF Staff and District Forestry Officer  > NDF	

#### d. Extensionists

Timeframe	Step 1 (Awareness phase)	Step 2 (Understanding phase)	Step 3 (Practice phase)	
Aim of Cap Dev	➤ Make C/Ps aware of the importance of CB-NRM and the overall process of CB-NRM.	<ul> <li>Help C/Ps understand the major techniques effective in CB-NRM and their important points in the application.</li> <li>Develop C/Ps' capacity to be an assistant for the NGO/contractor in the conducts of training on the CB-NRM techniques.</li> </ul>	➤ Develop C/P's capacity to provide technical guidance and training on the relevant techniques effective in CB-NRM to local communities in coordination with District MAF Officers or the NGO/contractor.	
Timing	May 2011 – March 2012	May 2011 –March 2015	May 2013 – October 2015 (to be extended by MAF)	
Project Activities related	➤ Regular meetings with JICA Project Team ➤ Technical seminars	<ul> <li>➤ Regular meetings with JICA         Project Team     </li> <li>➤ Technical seminars</li> <li>➤ OJT in providing technical guidance to local communities in coordination with the NGOs.</li> </ul>	>OJT in providing technical guidance to local communities in coordination with the NGOs.	
Responsible bodies	➤ JICA Project Team ➤ NGO (Supporter in OJT)	➤ JICA Project Team ➤ NGO (Supporter in OJT)	➤ MAF ➤ JICA Project Team	

#### e. District officers in other technical fields

Timeframe	Step 1 (Awareness phase)	Step 2 (Understanding phase)	Step 3 (Practice phase)
Aim of Cap Dev	➤ Make C/Ps aware of the importance and overall process of CB-NRM on a village level	<ul> <li>Help C/Ps understand the key techniques which are effective in CB-NRM and relevant to the respective technical fields.</li> <li>Make C/Ps aware of their roles in the introduction of CB-NRM on a village level.</li> </ul>	➤ Develop C/Ps' capacity to provide training and technical guidance to extensionists and local communities on the key techniques relevant to the respective technical fields.
Timing	May 2011 – March 2012	May 2012 – March 2015	May 2013 – October 2015
Project Activities related	➤ Regular meetings with JICA Project Team ➤ Technical seminars	<ul> <li>➤ Regular meetings with JICA         Project Team     </li> <li>➤ Technical seminars</li> <li>➤ OJT in monitoring the project activities</li> </ul>	<ul> <li>OJT in monitoring the project activities</li> <li>OJT in providing technical guidance and training to local communities on the key techniques relevant to the respective technical fields in coordination with the NGOs.</li> </ul>
Responsible bodies	> JICA Project Team > NGO (Supporter in OJT)	> JICA Project Team > NGO (Supporter in OJT)	➤ MAF ➤ JICA Project Team

Source: JICA Project Team (2013)

#### 4.2 Technical Seminars and OJT for the Counterparts

4.2.1 Technical Seminars held for the Counterparts In order to help the counterparts get a claer picutre of the whole process of CB-NRM and learn its requisite procedures and techniques, the JICA Project Team has held a series of technical seminars on key topics essential to CB-NRM. As of the end of March, 2015, a total of 18 technical seminars have been arranged and organized by the JICA Project Team for the counterparts as shown below.



**Technical Seminar @ Aileu** 

Technical Seminars held by the JICA Project Team for the Counterparts

reclifical Selfifial's field by the SICA FTO		
Technical seminar	Date of Seminar	No. of participants
1. Overall concept of CB-NRM	May 26, 2011	11 persons
2. Concept and overall process of PLUP	June 2, 2011	13 persons
3. Procedures for PLUP in the planning phase	June 8, 2011	13 persons
4. Procedures for PLUP in the implementation phase	July 22, 2011	15 persons
5. Selection of priority micro programs	Oct. 7, 2011	7 persons
6. Outlines of the selected micro programs	Nov. 25, 2011	7 persons
7. Group Organization for Implementation of Micro Program	February 13, 2012	15 persons
8. Major techniques introduced by the micro programs	June 8, 2012	12 persons
- Outlines and overall work plan of the micro programs		
- Major techniques/skills of SPTPP-MP		
- Major techniques/skills of SUFP / CBSE-MP		
- Major techniques/skills of IG/LD-MP		
- Detailed procedures for PLUP		
9. Overall concept of CB-NRM	June 18, 2012	14 persons
10. Facilitation skills	October 8, 2012	14 persons
11. Major techniques and skills of the micro programs	November 9, 2012	13 persons
- Techniques on sloping agriculture/agroforestry		
- Techniques on seedling production and tree planting		
- Techniques on upland farming		
- Techniques on livelihood development		
- Techniques on soil and water conservation		
12. PRA (As a part of the three-day training session)	January 22, 2013	13 persons
13. Participatory planning, monitoring and evaluation	February 11, 2013	14 persons
14. Terms of Reference	June 07, 2013	2 person <1
15. Major techniques introduced by the micro programs	June 17 and 18,	15 person for 2 days
(refereshing courses)	2013	
- Overall concept of CB-NRM		
- Seedling production and tree planting		
- Agoforestry and sloping agriculture		
- Income generating and livelihood development		
- Initial gully erosion control		
- Upland farming		
- Home garden	T 1 15 2012	12
16. Facilitation skills (refreshing course)	July 15, 2013	12 persons
17. Building of an animal pen	June 16, 2014	10 persons
18. Utilization of nautral resources for livelihood development	March 02, 2015	16 persons including 5
Same HCA Dustact Tarm (2015)		NGO officers, and 1 JOCV

Source: JICA Project Team (2015)

After each technicl seminar, the JICA Project Team requested the participants to assess the effectiveness of the seminar in terms of "clearness of explanation," "appropriateness of a material used in the seminar," and "relevance of a topic to their tasks" by using preset questionnaires. The results of evaluation of the seminars are summarized below.

**Summary of the Results of Evaluation of the Technical Seminars** 

No of seminar				Appropriateness of the material	•
	15	76.2	4.2/5	4.3/5	4.3/5

Source: JICA Project Team (2015)

#### 4.2.2 On-the-Job Training (OJT)

#### (1) Monitoring of the Project Activities

The JICA Project Team has arranged opportunities for the counterparts to observe and monitor the following activities together with the members of the JICA Project Team as a part of On-the-Job-Training (OJT) courses.

- a. Consultation meetings with local leaders and communities at the target sucos in 2011
- b. PRA sessions carried out by the NGOs in the target sucos in 2011 and 2012
- c. Participatory land use planning (PLUP) carried out by the NGOs in the target sucos in 2011and 2012
- d. Sessions conducted by the NGOs for selection of the priority micro programs in the target sucos in 2011 and 2012
- e. Monthly meetings in the target sucos to monior the occurrence of illegal cases and discuss solutions referring the village regulations from 2011 to 2015
- f. Activities carried out by the NGOs and members of the beneficiaries' groups in the course of the micro progrms in the target sucos from 2012 to 2015

The following table shows the level of counterpars' participation in the above-listed activities as of the end of March 2015.

Participation of the Counterparts in OJT

Activities	Month and Year	Sucos	No. of C	No. of CPs who participated in the wo		he work <1
			Central	District	Ext'nist	F. Guards
Consultation meeting	Feb. 2011	6 sucos	6	3	3	
2. PLUP	May 2011-Aug 2012	6 sucos	29	14	33	20
3. Selection of micro programs	Sep. 2011-Dec. 2012	6 sucos	12	6	n.a.	18
4. Monthly monitoring meeting	Sep. 2011-Mar. 2015	6 sucos	88	38	n.a.	42
5. PRA	Sep. and Oct. 2011	6 sucos	1	2	1	2
6. Implementation of micro programs	Jan. 2012-Mar. 2015	6 sucos	298	260	n.a.	178

Note: <1 The numbers in the table shows the cumulative numbers of the counterparts who took part in the activities over the course of the Project.

Source: JICA Project Team (2011)

The counterparts except extension officers in MAF District Office in Aileu were requested to submit a field trip report in accodance with the operation guidelines when they visited the sites.

#### (2) Monitoring of Seedlings planted in the Field

As monitoring of the survival of seedlings in plantations is one of the crucial tasks of the counterparts in the forestry ssector, namely NDFWM officers and District Forestry Officer/Forest Guards, the JICA Project Team arranged opportunities for the counterparts to survey the survival and growth conditions of seedlings planted by the beneficiaries' groups of SPTPP-MP in Sucos Madabeno and Tailtu. The survey was conducted twice

over the course of the Project to check the survival and grwoth conditions of seedlings planted in 2013 and 2014, respectively. The results of the sruveys are summarized below.

Results of the Surveys conducted for Monitoring of Survival and Growth Conditions of Seedlings

Activities	Month	Participants	Outline of th	ornig of Survi	vai aria (		Jonandio	110 01 000				
					t Toom so	n domler oc	la atad al	sout 5 0/ of	andlings			
Survey in	JulSep.	9 members		and MAF Project								
2014	2014			y the beneficiarie								
			Talitu prio	or to the field sur	vey. The c	counterpar	ts who to	ook part in t	he survey			
			check the survival of the seedlings and measured diameter and height of									
			seedlings	confirmed as al	live. GPS	data of t	he surve	eyed plots v	were also			
			taken by t	he counterparts f	or proper	recording						
			◆ The result	ts of the survey a	re summa	rized belo	W.					
			Suco	Total No. of		Survival	l conditio	Growth co	onditions			
			Suco	Seedlings	Alive	Dead	SR	Diateter	Hight			
				sampled	122110	2000	(%)	(cm)	(cm)			
			Madabeno	1,948	1,892	56	97.1	16	88			
			Talitu	1,434	1,119	315	78.0	_	_			
			Overall	3,382	3,001	371	89.0	15	83			
				Project Team (2014								
				382 seedlings sur		both suco	s. about	3.000 seedl	ings were			
				l as alive. The s								
				ver (78 % on ave								
				ge). Inadequat p								
				ddition to poor s								
				w survival. The								
				nd submitted the	ווו נט אטר	ili Novei	iiber 201	4 with the a	assistance			
	T T 1	0 1		A Project Team.	-1 HC	1 1 3 6	AED :		1 1			
Suvrey in	Jun-Jul.	8 members		the field survey								
2015	2015			ive (5) members'	_	_						
				to sample about								
				4. In the field, t								
				n the sampled					of those			
			confirmed	l as alive, and o	btained th	e coordin	ate data	of the surv				
			confirmed as alive, and obtained the coordinate data of the surveyd plots									
			with GPS									
			with GPS		re summa	rized helo	W/	of the surv				
			with GPS  The result	ts of the survey a	re summa				reyd plots			
			with GPS	ts of the survey a		Surviva	conditio	Growth co	reyd plots			
			with GPS  The result	ts of the survey a  Total No. of  Seedlings	re summa		conditio SR	Growth co	eyd plots  onditions  Hight			
			with GPS  The result  Suco	ts of the survey a  Total No. of  Seedlings sampled	Alive	Survival Dead	SR (%)	Growth co Diateter (cm)	onditions Hight (cm)			
			with GPS  The result  Suco  Madabeno	ts of the survey a  Total No. of Seedlings sampled  810	Alive 314	Survival Dead	SR (%) 72.1	Growth co Diateter (cm)	onditions Hight (cm) 90			
			with GPS  The result  Suco  Madabeno Talitu	ts of the survey a  Total No. of Seedlings sampled  810 400	Alive 314 226	Dead  1,124 626	SR (%) 72.1 63.9	Growth co Diateter (cm)	onditions Hight (cm) 90 66			
			with GPS  The result  Suco  Madabeno Talitu Overall	Total No. of Seedlings sampled  810 400 1,210	314 226 540	Survival Dead	SR (%) 72.1	Growth co Diateter (cm)	onditions Hight (cm) 90			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F	Total No. of Seedlings sampled  810 400 1,210 Project Team (2014	Alive  314 226 540	Survival Dead  1,124 626 1,750	<b>SR</b> (%) 72.1 63.9 69.1	Growth co Diateter (cm) 12 8 11	onditions Hight (cm) 90 66 87			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1,	ts of the survey a  Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings su	314 226 540	Survival  Dead  1,124 626 1,750  the both	<b>SR</b> (%) 72.1 63.9 69.1 sucos, 1	Growth co Diateter (cm) 12 8 11	onditions Hight (cm) 90 66 87			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed	Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings state as alive. The state of the survey at the su	Alive  314 226 540 7) priveyed insurvival ra	Survival Dead  1,124 626 1,750 the both ate of pla	conditio   SR   (%)   72.1   63.9   69.1   sucos, 1   ntations	Growth co Diateter (cm)  12  8  11  1,210 seedlii in Talitu w	nditions Hight (cm) 90 66 87 ings were was rather			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64)	ts of the survey a  Total No. of Seedlings sampled  810 400 1,210  Project Team (2014 750 seedlings suit as alive. The side of the survey and s	Alive  314 226 540  2)  arrveyed in survival rate) than the	Dead  1,124 626 1,750 1 the both ate of pla at in Ma	SR (%) 72.1 63.9 69.1 sucos, Intations dabeno	Growth co Diateter (cm) 12 8 11  ,210 seedlii in Talitu w (72 % on	nditions Hight (cm) 90 66 87  sings were was rather average).			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64 Particular	Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings st d as alive. The st 4 % on average ly, the performan	314 226 540 2) arveyed in survival rate) than there in Ald	Dead  1,124 626 1,750 the both ate of pla at in Ma eias Fatul	SR (%) 72.1 63.9 69.1 sucos, lantations dabeno chun and	Growth co Diateter (cm) 12 8 11 1,210 seedli in Talitu w (72 % on Talitu in S	militions Hight (cm) 90 66 87 engs were was rather average). uco Taltu			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64 Particular was signi	ts of the survey a  Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings sulas alive. The sampled seedlings sulas	Alive  314 226 540 2) arveyed in survival rate in Aldong the aldong the along the alon	1,124 626 1,750 the both ate of pla at in Ma eias Fatuldeias of be	respectively.	Growth co Diateter (cm)  12  8  11  1,210 seedli in Talitu w (72 % on Talitu in S s. Like in th	militions Hight (cm) 90 66 87  Ings were average). uco Taltu ne case of			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64 Particular was signithe surve	Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings st as alive. The s 4 % on average ly, the performar ficantly low amo y made in 2014	Alive  314 226 540 2) arveyed in survival race in Aldong the alce, the same	1,124 626 1,750 the both ate of pla at in Ma leias Fatul leias of bone causes	sucos, Intations dabeno chun and oth sucos were co	Growth co Diateter (cm) 12 8 11 1,210 seedli in Talitu w (72 % on Talitu in S s. Like in thonsiered as	militions Hight (cm) 90 66 87  sings were average). uco Taltu ne case of a possible			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64 Particular was signite surve reasons for	Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings st as alive. The st which is a series of the performant of the performant of the performant of the lower survey the lower survey the seed of the performant of the lower survey the seed of the	Alive  314 226 540 2)  arveyed in survival rate 2) than the can Aldong the alca, the san vival rate	1,124 626 1,750 the both ate of pla at in Ma leias Fatul leias of bone causes in the two	sucos, Intations dabeno chun and oth sucos were co aldeias.	Growth control of the	militions Hight (cm) 90 66 87  Ings were average). uco Taltu ne case of possible improper			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64 Particular was signi the surve reasons fo hole diggi	ts of the survey a  Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings sulas alive. The selly, the performant ficantly low among y made in 2014 or the lower surving, which resulting, which resulting	Alive  314 226 540 2) arveyed in survival rate in Aldong the alca, the same vival rate ed in plant	1,124 626 1,750 the both ate of pla at in Ma leias Fatul leias of bone causes in the two ting seedli	sucos, l ntations dabeno chun and oth sucos were co aldeias, ings in sr	Growth co Diateter (cm)  12  8  11  1,210 seedli in Talitu w (72 % on Talitu in S s. Like in the consiered as , namely i) mall pits, an	militions Hight (cm) 90 66 87  Ings were average). uco Taltu ne case of possible improper di ii) poor			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64 Particular was signi the surve reasons fo hole diggi	Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings st as alive. The st which is a series of the performant of the performant of the performant of the lower survey the lower survey the seed of the performant of the lower survey the seed of the	Alive  314 226 540 2) arveyed in survival rate in Aldong the alca, the same vival rate ed in plant	1,124 626 1,750 the both ate of pla at in Ma leias Fatul leias of bone causes in the two ting seedli	sucos, l ntations dabeno chun and oth sucos were co aldeias, ings in sr	Growth co Diateter (cm)  12  8  11  1,210 seedli in Talitu w (72 % on Talitu in S s. Like in the consiered as , namely i) mall pits, an	militions Hight (cm) 90 66 87  Ings were average). uco Taltu ne case of possible improper di ii) poor			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64 Particular was signi the surve reasons fo hole diggi soil fertili	ts of the survey a  Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings sulas alive. The selly, the performant ficantly low among y made in 2014 or the lower surving, which resulting, which resulting	Alive  314 226 540 2) arveyed in survival rate in Aldong the alca, the same vival rate ed in plant t application.	1,124 626 1,750 the both ate of pla at in Ma leias Fatul leias of bone causes in the two ting seedli ion of con	sucos, lantations dabeno chun and oth sucos were con aldeias, ings in sr	Growth co Diateter (cm)  12  8  11  1,210 seedli in Talitu w (72 % on Talitu in S s. Like in the consiered as namely i) mall pits, an planting pi	militions Hight (cm) 90 66 87  Ings were average). uco Taltu ne case of possible improper di ii) poor			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64 Particular was signi the surve reasons fo hole diggi soil fertili resulted in	Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings sul as alive. The selly, the performar ficantly low among y made in 2014 or the lower surving, which resulting in inadequate grown inadequate grown in sufficient inadequate grown.	Alive  314 226 540 2) arveyed in survival rate in Aldong the alca, the same vival rate ed in plant t application with of see	1,124 626 1,750 the both ate of pla at in Ma leias Fatul leias of being causes in the two ting seedli ion of condlings after	sucos, lantations dabeno schun and oth sucos were considerable aldeias, ings in srapost to er plantin	Growth co Diateter (cm)  12  8  11  1,210 seedli in Talitu w (72 % on Talitu in S s. Like in the consiered as namely i) mall pits, an planting pig.	militions Hight (cm) 90 66 87  sings were average). uco Taltu ae case of a possible improper di ii) poor its, which			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64 Particular was signi the surve reasons fo hole diggi soil fertili resulted in The coun	Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings sul as alive. The seedlings sul as alive in a contract to the lower surving, which resulted in inadequate growtrparts prepared	Alive  314 226 540 2) arveyed in survival rate in Aldong the alca, the same vival rate ed in plant t applicativith of seed a report of a r	1,124 626 1,750 the both ate of pla at in Ma leias Fatul leias of bone causes in the two ting seedli ion of condlings after on the sur	sucos, landadore sucos dabeno chun and oth sucos were con aldeias, ings in srmpost to er plantin rvival su	Growth co Diateter (cm)  12  8  11  1,210 seedlii in Talitu w (72 % on Talitu in S s. Like in the consiered as , namely i) mall pits, an planting pi g. rveys and	minimum submitted			
			with GPS  The result  Suco  Madabeno Talitu Overall  Source: JICA F  Out of 1, confirmed lower (64 Particular was signi the surve reasons fo hole diggi soil fertili resulted in The coun	Total No. of Seedlings sampled  810 400 1,210 Project Team (2014 750 seedlings sul as alive. The selly, the performar ficantly low among y made in 2014 or the lower surving, which resulting in inadequate grown inadequate grown in sufficient inadequate grown.	Alive  314 226 540 2) arveyed in survival rate in Aldong the alcolor, the same vival rate and in plant the application of seed a report of a report of a report of a report of seed a report of s	1,124 626 1,750 the both ate of pla at in Ma leias Fatul leias of bone causes in the two ting seedli ion of condlings after on the sur	sucos, landadore sucos dabeno chun and oth sucos were con aldeias, ings in srmpost to er plantin rvival su	Growth co Diateter (cm)  12  8  11  1,210 seedlii in Talitu w (72 % on Talitu in S s. Like in the consiered as , namely i) mall pits, an planting pi g. rveys and	minimum submitted			

Source: JICA Project Team (2014)

The reports prepared and submitted by the counterparts are shown in **Appendix-4.5** stored in the CD attached to this report.

#### (3) Management and Monitoring of the Project

The JICA and MAF Project Teams have had meetings on a weekly basis over the course of the Project to share and discuss: i) progress of the Project, ii) activities planned, and iii)

issues and concerns to be addressed, so that the counterparts could go through and learn the process of project management. It is noted that the membes of the MAF Project Team had held the meetings even during the period when no JICA expert worked in Dili.

From February/March 2012, the NGOs who had worked for implementation of the micro programs in the target villages have also attended the meetings to share and discuss issues and concerns found in the course of implementation of the micro programs. In the meetings,



Weekly Meeting with the Counterparts

the NGOs reported the progress of the micro programs in a week. In response to their reports, the counterparts gave the suggestions and advice based on the findings from the field monitoring. Through such periodic meetings, the counterparts have fosterd their sence of ownership of the Project and learned how to monitor and supervise the NGO's works.

#### 4.2.3 Training of Trainers (ToT) type Training

In order to enable the counterparts to be trainers/resource persons for the CB-NRM mechanim and its associated techniques in the future, the JICA Project Team has arranged and organized the following ToT-type training courses for the counterparts.

- a. PRA at Suco Fahisoi (one of the potential sucos for future expnion)
- b. Seminar on CB-NRM and the JICA CB-NRM Project
- c. Seminar on work plans of the micro programs
- d. Seminar on PLUP
- e. Study tour to Sucos Talitu and Madabeno
- f. Seminar on draft CB-NRM technical manuals
- g. Study tour to Suco Tohumeta

The results of the respective activities are summarized below.

#### Summary of the Results of TOT Activities

## a. Training on PRA

Activities	Date	<b>Participants</b>	Outline of the Activities
Technical seminar and preparation of materials	Jan. 22, 2013	12 members	◆ The counterparts learned the outline of PRA and procedures for key PRA tools in the technical seminar held on Jan. 22, 2013. They also prepared materials (flipcharts) used in PRA sessions in the same seminar.
Field practices	Jan. 23 & 24, 2013	15 members each	<ul> <li>◆ They conducted the following PRA sessions at Suco Fahisoi, which was selected as a venue for this purpose.         <ul> <li>Resource mapping</li> <li>Trend analysis</li> <li>Seasonal calendar</li> <li>Institutional venn diagram</li> </ul> </li> <li>◆ In the field, they shared the responsibilities for the conducts of the PRA sessions by dividing them into four (4) groups. Every one of them played a certain role in the sessions, such as facilitator, co-facilitator, note takers, etc.</li> </ul>
Preparation of a PRA report	Feb. and Mar. 2013	15 members	◆ The counterparts prepared a PRA report based on the results of the PRA sessions with the assistance of the JICA Project Team. Each group assessed the data collected in the respective sessions and developed the parts of the report. The JICA ProjectTeam compiled all the parts into a report and submitted a eport on PRA to NDF in March 2013.
Remarks			the CD attached to this report shows the results of the training courses by the counterparts.

b. Seminar on CB-NRM and the JICA Project

		the JICA Proje	
Activities	Date	Participants	Outline of the Activities
Seminar at NDF	Jan. 29, 2013	n.a.	<ul> <li>The JICA and MAF Project Teams jointly held a seminar on CB-NRM and the JICA Project inviting district forest officers of all the districts. The seminar was composed of four (4) sessions as shown below.</li> <li>Session 1: Basic concepts of CB-NRM</li> <li>Session 2: Introduction of participatory land use planning and its effectiveness</li> <li>Session 3: Results of training on forest management and CB-NRM in Japan</li> <li>Session 4: Introduction of the JICA CB-NRM Project and micro programs being implemented by the Project</li> <li>Four (4) counterparts, three (3) NDF officers and one (1) district forest effective in Alley and the green to the project in the second of the project in the project of the project in Alley and the green to the project in the project in the project in the project of the project in Alley and the green to the project in the project</li></ul>
Discussions with the participants from other districts	ditto		forest officer in Aileu made the presentations in the sessions.  ◆ In the seminar, one (1) session was allocated for discussions on CB-NRM between the prticipants from other districts and the counterparts. Some highlights of the discussions are summarized below.  a. In response to the participants' inquiry about the possibility of the continuation of CB-NRM activities after the end of the JICA Project, the counterparts replied that NDF/MAF planned to take over the responsibility for the implementation and expansion of CB-NRM.  b. The participants questioned about the effectiveness of the village regulations, as tara bandu was usually effective only in one year in many cases. The counterparts introduced the cases of Suco Faturasa where the village regulations had been effective since 2008 and drastically reduced the incidence of forest fire and illegal cutting in the village.  c. As a reply to the comment on the possibility of the financial and administrative support from top management of MAF for continuation of CB-NRM, the counterparts suggested that it might be possible for NDF to get future MAF support if a certain policy and legal framework for CB-NRM would be in place.

c. Seminar on Work Plans of the Micro Programs

Activities	Date		Participants	Outline of the Activities
Seminar at NDF	Jun. 2013	08,	13 members	The JICA Project Team arranged a small workshop where the core counterparts (NDF Officers, District Forestry Officer, and Forest Guards) made presentations of the work plans of the micro programs to the other eight (8) counterparts, so that the core counterparts could: i) deepen the understanding of the work plans of the micro programs and ii) improve their presentation skills. Five (5) counterparts made the presentations in the workshop.

#### d. Seminars on PLUP

Activities	Date	<b>Participants</b>	<b>Outline of the Activities</b>			
Seminars at the District MAF	Jul. and Oct. 2013	10 members	<ul> <li>The JICA and MAF Proheld seminars on PLU</li> </ul>	3 3	7	
Offices in	Oct. 2013		MAF Offices in Ermer	ra, Manatutu, and		
Liquica, Ermera, and Manatutu			Liquica, respectively, provide the counterpar to explain the process	ts an opportunity of PLUP to other		
			MAF offiers and ii) familiarize key district officers in the said districts with the process and results of PLUP. The counterparts divided themselves into three (3) groups to share the responsibility among the members. The following table			
					nber of participants from	
			District Office	Date	No. of participants	
			MAF District in Liquica	Jul. 29, 2013	25 persons	

Activities	Date	<b>Participants</b>	<b>Outline of the Activities</b>		
			MAF District in Manatutu	Oct.01, 2013	27 persons
			MAF District in Ermera	Oct.11, 2013	33 persons
			Source: JICA Project Team (2013)		
			among the counterparts and clarifications given same time, the semina PLUP and CB-NRM to Officers, Coordinators and Forest Guards, in the	, as they needed to re n by the participants a was also a good of b key district officers of Extension Office the MAF District Offices.	ng a sense of ownership ply a number of inquries in the seminars. At the opportunity to introduce , such as District Forest rs, Exstension Officers, ces relevant to the Laclo
Preparation of a	Nov. 2013	Several	◆ The members of the	MAF Project Team	who participated in the
report on the		members	seminars prepared a re	port on the seminars	and submitted the same
seminar			to NDF on December 2	, 2013.	

e. Study Tour to	Sucos T	alitu	and Madaben	0
Activities	Date		Participants	Outline of the Activities
Study tour		13,	10 members	<ul> <li>♦ The JICA and MAF Project Teams jointly organized a study tour for the ditrict officers in Ermera, Liquica and Manatuto. The counterparts were responsible for introduction of the project activities and guiding the participants in the field.</li> <li>♦ A total of 10 district offiers who took part in the tour to Sucos Talitu and Madabeno. They observed village leaders discuss issues/concerns referring the village regultions in the monthly monitoring meeting at Suco Madabeno, and visited nureries and demonstration plots developed by the beneficiaries' groups in both sucos. The counterparts guided the participants and gave explanations with the assitance of the NGO over the course of the tour.</li> </ul>
Evaluation of the study tour by the participants	ditto		-	<ul> <li>◆ The participants in the study tour were reuested to evaluate the study tour and the performance of the counterparts. The results of the evaluation are summarized below.</li> <li>Evaluation items</li></ul>
				CB-NRM techniques that they observed in the tour as shown below.
				Evaluation items PLUP Community Sloping agriculture Overall
				Effectiveness         4.4         4.4         4.7         4.5           Applicability         4.3         4.4         4.3         4.4
				Possibility of 4.4 4.3 4.1 4.0
Preparation of a	Nov.and	il	Several	introduction Source: JICA Project Team (2013)  ◆ The participants considered that the CB-NRM approaches/activities would be effective in sustainable forest management and applicable to their districts/sub-districts.  ◆ The members of the MAF Project Team who participated in the
report on the seminar	Dec. 20		members	study tour prepared a report on the tour and submitted the same to NDF on December 17, 2013.

#### f. Seminars on the draft CB-NRM technical manuals

Activities	Date	Participants	Outline of the Activities
Seminars at the MAF district offices in the four disturcts concerned	Jul. and Aug. 2014	10 members	<ul> <li>♦ The JICA and MAF Project Teams jointly held one-day seminars on the draft CB-NRM technical manuals at the MAF district offices concerned with the Laclo and Comoro river basins, namely Aileu, Ermera, Liquica, and Manatutu on the following dates:         <ul> <li>Seminar at Ermera on July 23, 2014</li> <li>Seminar at Aileu on August 1, 2014</li> <li>Seminar at Liquica on August 1, 2014</li> <li>Seminar at Liquica on Forest into two (2) groups and decided that each group should be responsible for two (2) seminars. They also shared the responsibilities for the presentations of the seminars at the respective district offices among the members.</li> <li>♦ A total of 118 MAF District Officers, comprised of District Forest Officers, Sub-district Extension Coordinators and Extension Officers in the respective offices, attended the seminars.</li> </ul> </li> </ul>
Preparation of a report on the seminar	Aug.and Sep. 2013	Several members	◆ After the seminars, two (2) of the coutnerparts, leaders of the groups, made reports on the seminars, respectively, with the assitance of the JICA Project Team and submitted them to NDFWM in September 2014.

g. Study Tour to Suco Tohumeta

Activities	Date	<b>Participants</b>	Outline of the Activities
Study tour	Nov. 2014	11 members	<ul> <li>In respone to the requests from the participants in the seminars on the draft CB-NRM technical manuals, the JICA and MAF Prject Teams arranged and held a study tour to Suco Tohumeta with the participation of 22 MAF district officers from Liquica and Ermera.</li> <li>The counterparts (11 members) guided the participnts and made explanations about the project activities in the course of the tour.</li> </ul>

Source: JICA Project Team (2015)

#### 4.3 Annual Feedback and Planning Seminars by Counterparts

In order to help the counterparts assess the effectiveness of the training courses held by the JICA Project Team and revise the training curricula to make them more effective, the JICA Project Team has held feedback seminars with the particiation of the counterparts every year over the course of the Project. In the same seminars, the counterparts were also assisted by the JICA Project Team in the preparation of annual work and budget plans for their activities for the next two (2) fysical years, so that they could submit the plans to their superior bodies to secure operation budgets for their activities. The following table shows the dates of the seminars and the number of the participants.

**Feedback Seminars for the Counterparts** 

		oabaon ooninia.o.o. u.		
Year	Target Counterparts <1	Date of seminar	Venue of seminar	No. of participants
2012	NDFOs, DFO, and FG	Jn. 31, 2012	NDF in Dili	8 persons
	DOs, EC/SECs, EOs	Feb. 6, 2012	MAF District Office in Aileu	6 persons
2013	NDFOs, DFO, and FG	Nov. 19 & 20, 2012	NDF in Dili	11 members in total
	DOs, EC/SECs, EOs	Dec. 3, 2014 & Feb. 11,	MAF District Office in Aileu	13 members in total
		2013		
2014	NDFOs, DFO, and FG	Jan. 23, 24, & 31, 2014	NDF in Dili	20 members in total
	DOs, EC/SECs, EOs	Feb. 04, 05, & 17, 2014	MAF District Office in Aileu	27 members in total
2015	NDFOs, DFO, and FG	Jan. 29 & Feb. 5, 2015	NDF in Dili	9 members in total
	DOs, EC/SECs, EOs	Feb. 9 & 15, 2015	MAF District Office in Aileu	9 members in total

Source: JICA Project Team (2015)

#### (1) Objective of the Seminar

The main objectives of the feedback seminar were to ensure that the capacity development plan as well as the training curricula associated with the plan could enhance the capacities of the counterparts effectively and efficiently and to enble the counterparts to develop an annual work and budget plan for their activities based on the review of their performance in the previous year. Specifically, the seminar aimed to:

- a. help the counterparts review the training courses that they have received in the previous year;
- b. help the counterparts assess whether or not they had learned the techniques through the training courses;
- c. help the counterparts identify training courses that they still needed to have;
- d. help the counterparts to reconfirm if they could achieve the goals and targets set by the capcity development plan;
- e. help the counterparts identify the necessary field activities by themselves based on the situations of the target sucos; and
- f. help the counterparts develop draft annual work plans for their activities with budget estimation for the following fysical years.

#### (2) Topics discussed in the seminar

In general, the participants discussed three subjects: i) training courses in the previous year; ii) training curricula in the following years; and iii) work plans for the counterparts for the following two (2) fysical years. The agenda of the seminars are shown below.

- Session 1: Introduction of the workshop with the framework of the capacity development plan
  - Framework of the capacity development plan
  - Goals and milestones of the capacity development plans for the counterparts
  - Training curricula for the respective counterparts

Session 2: Review of the training courses

- Major topics discussed in the training courses
- Participants in the respective training courses
- Level of understanding
- Gaps to be filled or aspects/topics to be followed up



Feedback and Planning Seminar

- Any improvements needed to improve training courses
- Necessary intervention or arrangement to be considered

Session 3: Review of the training curriculum for the next two (2) fysical years

- Training courses planned for the next two (2) fysical years
- Topics that still need to be addressed
- Training curriculum for the respective counterparts in the next two (2) years

Session 4: Preparation of annual work plans for the next two (2) fysical years

- Identification of the counterparts who will participate in the training courses
- Preparation of annual work plans

#### (3) Results of the Seminars

**Appendix-4.7** stored in the CD attached to this report shows all the results of the seminars held from 2012 to 2015 with the work and budget plans prepred by the counterparts. The work and budget plans were also submitted to NDF and MAF District Office in Aileu with an aim to help the counterparts get a certain financial assistance from the repspective mother bodies. In fact, NDFWM allocated some budgets for the activities of the counterparts in the forestry setor (i.e., NDFWM officers, District Forest Officer, and Forest Guards) for FY 2015. Through the discussions in the feedback seminars, the counterparts were able to:

- i) review and revise the training curriculum for the respective types of counterparts;
- ii) assess their own level of understanding of the relevant topics handled by the technical seminars or observed in the field;
- iii) identify gaps between the current capacity level and the goal of the capcity development plan;
- iv) learn how to estimate the budgets for activities planned for an annual work plan; and
- iv) learn how to make a proposal with a work and budget plan.

#### 4.4 Preparation of Technical Manuals on CB-NRM

Over the course of the Project, the JICA Project Team has prepared the following technical materials to disseminate techniques relating to CB-NRM among relevant stakeholders, such as MAF extension officers, forest guards, and other field practitioners working in the agriculture and forestry sectors.

- i) CB-NRM Information Kit
- ii) CB-NRM Technical Manuals
- iii) Manual for Formation of a Watershed Management Council
- iv) Quick References of the CB-NRM Technical Manuals

#### 4.4.1 CB-NRM Information Kit

The CB-NRM Information Kit is a technical reference book that the JICA Project Team developed by compiling existing techniques and practices useful for sustainable natural resource management and applicable to local settings in Timor-Leste, especially in the Laclo and Comoro river basins. A total of 44 techniqes/practices are put in the document, which are grouped into seven (7) categories as shwon below.

Techniques/Practices compiled into the CB-NRM Information Kit

	reoninguesia ructioes complied into the OB MAIN information Alt					
Category		Techniques/practies introduced				
1. Community		1.1 Public Awareness Campaign				
Participation		1.2 Participatory Assessment				
		1.3 Group Organization				
		1.4 Participatory Planning, Monitoring, and Evaluation				
		1.5 Farmer Field School (FFS)/Hands-on Training Course				
2. Participatory	Land	2.1 Future Land Use Planning				

Cotogowy	Tashnianas/prostics introduced
Category Use Planning (PLUP)	Techniques/practies introduced 2.2 Formation of Village Regulations with a Tara Bandu Ceremony
Use Planning (PLUP)	
2 D C + + +	2.3 Monthly Monitoring of Implementation and Enforcement of the Village Regulations
3. Reforestation	3.1 Nursery Establishment
	3.2 Nursery Operations and Seedling Prodiction
	3.3 Tree Planting
	3.4 Tending of Young Stands
	3.5 Standard Desgns of i) Home Garden and ii) Coffee Plantation
	3.6 Standard Desgns of iii) Timber Plantation and iv) Regenerated Forest in Degrated Land
4. Agriculture and	4.1 Water Saving Cultivation Method
Livestock	4.2 Application of Basal Fertilizer
Management	4.3 Production and Application of Liquid Fertilizer
	4.4 Germination Technique
	4.5 Nurery Making
	4.6 Vegetative/Asexual Propagtion Techniques
	4.7 Crop Rotation and Mix Planting
	4.8 Quality Seed Multiplication
	4.9 Maize Seed Preservation
	4.10 Introduction of Live Fence
	4.11 Development of Forage/Feed Bank
	4.12 Introduction of Semi-intensive Animal Husbandry
5. Sloping Agriculture	5.1 Delineation of Contour Lines (Making and Use of an A-frame)
and Agroforestry	5.2 Relay Plannting and Cover Cropping /Mulching
	5.3 Contour Composting/Canalling
	5.4 Bench Terracing
	5.5 Contour Rock Wall
	5.6 Alley Cropping/SALT Techniques
	5.7 Multistoried Cropping
6. Income Generating /	6.1 Honey Production
Livelihood	6.2 Sweet Potato Chips Making
Development	6.3 Dried Sweet Potato Making
	6.4 Herb Tea Making
	6.5 Salted Vegetables
	6.6 Tais Making
	6.7 Sewing
	6.8 Simple Rocket Stove
7. Soil and Water	7.1 Field Assessment of Gully Erosion
Conservation	7.2 Brushwood Check Dam
	7.3 Loose Stone Check Dame
Source: JICA Project Team (	2015)

As all the techniques/practices listed above has already been put into trial in Timor-Leste and proved effective for forest management, improvement of agricultural production, and/or livelihood development, it is expected that the document could be of help to field practitioners not only of MAF but also MAF Development Partners, especially NGOs working in the forestry and agriculture setors, as a technical reference.

The JICA Project Team made the CB-NRM Information Kit in both languages, Tetun and English, as shown in **Appendix-4.8** stored in the CD attached to this report. In November 2015, a total of 47 copies of the Tetun version of the Information Kit were submitted to NDFWM and MAF together with 27 copies of the English version of the same.

#### 4.4.2 CB-NRM Technical Manuals

The JICA Project Team developed three (3) volumes of technical manuals based on the results of the micro programs implemented in the target villages.

- Vol. 1: Seedling Production and Tree Planting
- Vol. 2: Sustainable Upland Farming
- Vol. 3: Income Generting/Livelihood Development







**CB-NRM Technical Manuals** 

The manuals are aimed at field practitioners and planners in the forestry and agriculture sectors in Timor-Leste. They are expected to be used as guidelines for field extenion services to local communities in the field and also referenes for making a down-to-earth work plan or proposal for their services.

The manuals introduce the key approaches to effective extension and a whole set of techniques/skills which have been demonstrated in the course of the micro programs. The following table shows the techniques/skills covered by the manuals.

Techniques/Skills introuced in the CB-NRM Technical Manuals

Volume of the manuals	Toobniques/Skills introduced in the Co-NKW rechilical Wandals	
Vol. 1: Seedling	Techniques/Skills introduced in the Manuals  Techniques for Nursery Fetablishment and Operations	
Production and Tree	Techniques for Nursery Establishment and Operations	
	1) Nursery Establishment	
Planting	2) Seed Preparation and Sowing Seeds	
	3) Preparation of Seedling Pots	
	4) Maintenance of Seedlings	
	5) Hardening-off	
	Techniques for Tree Planting	
	6) Production of Compost	
	7) Determination of Layout of Plantations	
	8) Delineation of Contour Lines and Sticking of Stakes	
	9) Planting	
	10) Tending	
Vol. 2: Sustainble	1) Production of Compost	
Upland Farming	2) Delineation of Contour Lines	
	3) Application of Contour Composting (Contour Canalling)	
	4) Plowing with Compost Application	
	5) Selection of Seeds/Planting Materials and Identification of Plots for the Improved	
	Varieties of Maize	
	6) Sowing / Planting	
	7) Preparation of Liquid Fertilizer	
	8) Weeding, Mulching, and Application of Liquid Fertilizer	
	9) Post-harvesting and Storage of Seeds of Maize	
Vol. 3: Inome	Assessment of Resources in the Locality and Selection of Potential IG/LD Activities	
Generating / Livelihood	1) Resource Inventory	
Development	2) Selection of Potential IG/LD Activities	
	Food Processing Products	
	3) Drying Method: Herbal Tea Production	
	4) Drying Method: Dried Sweet Potato Production	
	5) Soaking Method: Salted Vegetable Production (Long Period Soaking)	
	6) Soaking Method: Pickled Vegetable Production (Short Period Soaking)	
	7) Frying Method: Cassava Chips Production	
	Other IG/LD Activity	
	8) Sewing Techniques	
	Marketing of Products and Operations and Management of IG/LD Activities	
	9) Promotion of Products	
	10) Bookkeeping	
	11) Micro Credit using Earnings from Operations of IG/LD Activities	
Source IICA Project Team	2015)	

Source: JICA Project Team (2015)

The JICA Project Team submitted a total of 47 sets of the Tetun version of the CB-NRM Technical Manuals with 27 sets of the English version to NDFWM/MAF in November 2015. CB-NRM Technical Manuals submitted to NDFWM/MAF are shown in **Appendix-4.9** stored in the CD attached to this report.

#### 4.4.3 Manual for Formation of a Watershed Management Council

In September and October 2015, the JICA Project Team prepared a manual for formation of a watershed management council referring the process and procedures taken for the creation of the Noru watershed management council under Outut 1. The manual also describes the process of making a watershed management plan of sub-watersheds located in the Laclo and Comoro river basins. The contents of the manual are summarized below.

Contents of the Manual for Formation of a Watershed Management Council

Oontents o	the Mandarior Formation of a Watershed Management Council
Chapters	Sections
Chapter 1: Introduction	1.1 Background
	1.2 Objectives of the Manual
	1.3 Coverage/Targets of the Manual
	1.4 Composition of the Manual
Chapter 2: Rationale for	2.1 Rationale
Formation of the Watershed	2.2 Relevance to the Forest Sector Policy
Management Council	2.3 Expected Outcomes from the Formation
Chapter 3: Process of and	3.1 Overall Process
Procedures for Formation of	3.2 Procedures for Formation of the Watershed Management Council
the Watershed Management	Step 1: Consultation with Local Leaders
Council	Step 2: Meeting with the Noru Watershed Management Council
	Step 3: Study Tour to the JICA CB-NRM Project Village
	Step 4: Stakeholder Analysis and Selection of Members
	Step 5: Determination of Vision Statements, Missions, Functions, and Objectives of a
	Watershed Management Council
	Step 6: Determination of By-laws of the Watershed Management Council
	Step 7: Finalization of a Resolution of the Watershed Management Council
	Step 8: Regular Meetings of the Watershed Management Council
Chapter 4: Process of	4.1 Overall Process
Development of a	4.2 Procedures for Development of a Watershed Management Plan
Watershed Management	Step 1: Introduction of the Process and Objective of a Watershed Management Plan
Plan (only for Watersheds	Step 2: Development of a Draft Watershed Management Plan
within the Laclo and	Step 3: Review and Revision of the Draft Management Plan
Comoro River Basins)	Step 4: Preparation and Finalization of a Resolution on the Watershed Management
	Plan
Chapter 5: Framework for	5.1 Organizations and Persons responsible for the Works
Implementation	5.2 Necessary Supports
	5.3 Standard Implementation Schedule

Source: JICA Project Team (2015)

The manual aims to guide field officers and planners in MAF, especially NDFWM, on how to i) form a collaboration platform on a sub-watershed scale in coordination with local leaders at the sub-municipal and village levels and ii) make the platform operational as a council for watershed management. Likewise, a total of 47 copies of the Tetun version of the manual with 27 copies of the English version of the same were submitted to NDFWM/MAF in November 2015. The manual submitted to NDFWM/MAF is shown in **Appendix-4.10** stored in the CD attached to this report.



Manual for Formation of a Watershed Management Council

#### 4.4.4 Quick Rereference of the CB-NRM Technical Manuals

Although the CB-NRM Technical Manuals give details of the procedures for introduction of key techniques relating to the micro programs, they might not necessarily be suitable for the use in the field since they are A-4-sized books bound with round plastic spines. In order to provide a handy tool for MAF field officers as well as NGO workers together with the Technical Manual, the JICA Project Team developed a A-5-sized booklet named "Quick Rereference of the CB-NRM Technical Manuals" in December 2015. The booklet introduces the key techniques extracted from the technical manuals so that the field officers could use and refer it in the field while providing technical training/extension services. About 200 copies of the Tetun version of the quick reference with about 50 copies of the English version were submitted to NDFWM/MAF in December 2015 for distribution to the field officers of MAF, especially those working in the MAF Distrit Offices concerned with the Laclo and Comoro river basins.





**Quick Reference of the CB-NRM Technical Manuals** 

The quick reference of the CB-NRM Technial Manuals submitted to NDFWM/MAF is shown in **Appendix-4.11** stored in the CD attached to this report, and its outline is summarized below.

Contents of the Manual for Formation of a Watershed Management Council

Part	Sections	
Seedling Production and	1-1 Nursery Establishment	
Tree Planting	1-2 Seed Preparation and Sowing Seeds	
	1-3 Preparation of Seedling Pots	
	1-4 Maintenance of Seedlings	
	1-5 Planting (including layouts of plantation) and Tending	
Sustainble Upland Farming	2-1 Compost Making and Maintenance	
	2-2 Delineation of Contour Lines	
	2-3 Application of Contour Composting Terraces	
	2-4 Cultivation with Compost Application	
	2-5 Making and Application of Liquid Fertilizer	
Inome Generating /	3-1 Identification of Potential IG/LD Activities	
Livelihood Development	3-2 Drying Method: Herbal Tea Production	
	3-3 Soaking Method: Salted Vegetable Production	
	3-4 Frying Method: Cassava Chips Production	
	3-5 Home Manufacturing Option: Sewing	

Source: JICA Project Team (2015)

#### **Chapter 5** Results of the Activities under Output 3

#### 5.1 Creation of a Taskforce in NDF

In order to facilitate the discussions with NDF on a new policy document for expansion of CB-NRM in the target river basins, the JICA and MAF Project Teams prepared a joint proposal to set up a taskforce/working team within NDF after a series of discusions in June and July 2011 as shown in **Appendix-5.1** in the CD attahed to this report. In response to the proposal, NDF selected a total of 16 members composed 15 NDF offiers and one (1) MAF advisor as members of the taskforce/working team as listed below.

Members and Structure of the Working Team

Position	Name	Current Position
Chair Person	Fernando Araujp	Project Manager of the Project
Advisor	Mario Nunes	Advisor for Minister
Co-Chair Person	Yoji Mizuguchi	Chief Advisor of the Project
Members	João Antalmo	Head of Dept for Protection and Forest Management Resources
	Luis Mendes	Head of Dept for Planning and Finance
	Manuel da Cruz	Head of Dept for Protection
	João Dasimano	Head of Mangrove Section, Dept for Protection
	Vitor Ximenes	Chief of Section for Circulation and Fiscalization Forest Product, Dept
		for Forestry Production
	Jeremias Jose Cristovão	Chief of Section for Forest Inventory, Department for Protection
	Adelino de Rosario	Chief of Section for NTFP, Department for Protection
	Higino T.C Barros	Chief of Section for Nacional Tourism Management, Dept for National
	_	Parks
	Pascal de Carimo	Staff of Dept for Planning and Finance
	Americo da Silva	Staff of Dept for Planning and Finance
	Egas Brites da Silva	Technical Professional Assistant Dept for Administration
Secretariat	Vildito Ximenes	Project Officer/Staff of Dept for Soil and Water Conservation
	Mario Alves	Project Officer/Staff of Dept for Protection
	Marcelino Perreira	Project Officer/Staff of Dept for Soil and Water Conservation
	Yoshioka Yayoi	Co-Chief Advisor/Community-Based Natural Resource Management
	Hiromi Yasu	Reforestation
	Haruko Chikaraishi	Project Coordinator/Assistance in Reforestation/Rural Development

Source: JICA Project Team (2011)

# 5.2 Discussions with NDF Taskforce/Working Team on Policy Recommendations and Operational Procedures for Promotion of CB-NRM

The JICA Project Team and the NDF taskforce/working team have had the following meetings to develop a new policy document for expansion of CB-NRM in the target river basins over the course of the Project.

- a. Kick-off meeting
- b. Meeting on the work plan of the working team
- c. Situation and stakeholder analyses
- d. Assessment of the forest sector policy and forest management bill
- e. Activities of the JICA CB-NRM Project and basic concepts of CB-NRM
- f. Orgniational structure and roles/responsibilities of key players in the promotion of CB-NRM
- g. Necessary interventions and arrangements for promotion of CB-NRM
- h. Draft policy recommendations for expansion of CB-NRM
- i. Draft ministeril order for promotion of CB-NRM

Some highlights of the discussions made in the meetings are summarized below.

Meetings with the NDF Taskforce / Working Team

Meeting	Date	Participants	Highlights of	JF Taskforce / Working Team
1 <sup>st</sup>	Aug. 1,	13 members		anager and Chief Advisor explained
meeting	2011			mbers of the taskforce/working the
			outline of	the Project, objectives of the
			taskforce/v	
			•	ities of the members, and a tentative
				f the team's activities.  d. clarification of the activities on
				d clarification of the activities on 1st Meeting of Working Team king under the Project and exchanged opinions and views on
				the members agreed on the importance of CB-NRM and
				the process proposed by the Project of making a new policy
				on CB-NRM, in which the taskforce/working team could take an
2 <sup>nd</sup>	N. 20	0 1		making the document from the beginning.
1 -	Nov. 29, 2011	9 members		Project Team introduced the overall work schedule of the vorking team and activities planned in FY 2012. The members of
meeting	2011			e/working team agreed with the same in the meeting.
3 <sup>rd</sup>	Aug. 7	8 and 7		pers of the taskforce/working team
meeting	and 10,	members		the following topics with the JICA
	2012		Project Tea	
				t situation of the forestry sector
			b. Major roles	stakeholders in the sector and their
				ss and status of the forest sector
			policy	so and status of the forest sector
			d. Major	constraints and hindrance to the achievement of the
				jectives of the forest sector policy
				to be taken for achievement of the goal/objectives of the policy of the discusions are summarized below.
			Topics	Results of Discussions
			Stakeholder	Eight (8) direct stakeholders and 13 indirect stakeholders were
			Analysis	identified.
			Situation Analysis	The members judged that forest resources had been degraded in terms of both quality and quantity. The major causes of forest
			7 Mary 513	degradation that the members identified are: i) tree cutting; ii) forest
				fires; iii) shifting cultivation; and iv) over exploitation caused by
			Analysis of	local communities.  The members judged that MAF/NDF might not be able to achieve
			the forest	the policy objectives of the forest sector policy, except "institutional
			sector policy	development." The major hindrances to the achievement were: i)
				lack of forest law/regulations; ii) lack of budget; iii) lack of capacity; and iv) lack of coordination with relevant stakeholders.
			Analysis of	A number of interventions were identified and proposed by the
			the necessary	members as listed below.
			interventions for	<ul> <li>Recruitment of community forest guard and new staff</li> <li>Demarcation of important forest areas</li> </ul>
			achievement	Policy support from higher management of MAF
			of the forest	Approval and enactment of Forest Management Bill
			sector policy	<ul> <li>❖ Introduction of PLUP in important forest areas</li> <li>❖ Introduction of specific regulation on the use of chain saw</li> </ul>
				❖ Awareness campaign to disseminate information to communities
				❖ Improvement of livelihoods of communities in the river basins ❖ Conduct of a preliminary survey to collect data of the critical
				<ul> <li>Conduct of a preliminary survey to collect data of the critical watersheds</li> </ul>
				❖ Concervation of indiginous species
				Development of a watershed management plan
				<ul> <li>❖ Development of a specific law for watershed management</li> <li>❖ Introduction of soil conservation measures</li> </ul>
				❖ Introduction of slope protection measures
				❖ Introduction of commercial timber trees ❖ Introduction of trees species which are effective in soil
				❖ Introduction of trees species which are effective in soil conservation and suitable for timber production at the same time
				❖ Improvement of knowledge of NDF and MAF District staff
				Promotion of commercial timber trees
				<ul> <li>❖ Preparation of nurseries for commercial trees</li> <li>❖ Improvement of communities' knowledge on tree planting</li> </ul>
				Provision of scholarship for potential staff to upgrade their
				educational background
				<ul> <li>❖ Development of a network with relevant institutions</li> <li>❖ Allocation of experienced and qualified staff</li> </ul>
<u> </u>	1	l	LL	* Amocation of experienced and quanticu staff

Meeting	Date	Participants	Highlights of discussions				
3		_	Source: JICA Project Team (2012)				
			◆ Some of the proposed interventions were closely related to the activities of				
			the JICA CB-NRM Project. This result suggested that the new policy document on CB-NRM could contribute to the achievement of the goal and				
			objectives of the forest sector policy.				
4 <sup>th</sup>	Jan. 15,	13 members	◆ The members of the taskforce/working team				
meeting	2013		discussed how the CB-NRM approaches,				
			specifically those introduced by the JICA				
			CB-NRM Project, could contribute to the implementation of the forest setor policy and				
			the forest management bill.				
			◆ Through the discussions, the members were				
			able to confirm that i) promotion of CB-NRM could contribute to the				
			achievement of the objectives of the forest sector policy and ii) PLUP the JICA CB-NRM Project has initiated/demonstrated in the target villa				
			would be the key part in the process of acquisition of Community Forest				
			Management Agreement (CFMA) defined in the forest management bill.				
			◆ The members further discussed a mechnism to promote CB-NRM at the				
			suco level, and agreed on the following framework as a draft overall				
			framework of the mechanism.				
			(1) Participatory Land (3) Assistance in the				
			Use Planning implementation of the				
			village regulations Achievement of community-based				
			sustainable natural				
			(2) Formulation of village regulations (4) Implementation of				
			and future land use agricultural and forestry extension programs				
			plan				
			(1)NDF will assist local leaders/communities in the formulation of the regulations and plan				
			with or without the assistance of NGOs. (2)Same as above.				
			Sub-district administrative office/s will endorse the regulations and plan.  (3) NDF will assist local leaders in the implementation of the village regulations with or				
			without the assistance of NGOs.				
			(4) National Directorates relevant to the agricultural and forestry extension programs will implement the programs with or without the assistance of NGOs in coordination with				
			NDF.				
			Draft Framework of a Mechanism to Promote CB-NRM on a Village Level  Source: JICA Project Team (2013)				
5th	Jun. 25,	9 members	◆ The members of the taskforce/working team				
meeting	2013		first reviwed the approaches and activities				
			taken by the JICA CB-NRM Project and then				
			discussed the effective process and scope/framework of CB-NRM at the suco				
			level.				
			◆ The members agreed that the following				
			process proposed by the Project could be				
			adopted in the target river bsisns to establish a CB-NRM mechanism at the				
			village level.  About3~6 months 2~3 years				
			Participatory Land Use Planning Assistance in the enforcement of the regulations				
			Enhancement of village leaders' governance capacity				
			Future Land Use Plan (Future land use map)  Tara				
			Bandu Implementation of the micro programs				
		(Regulations on natural Enhancement of communities' capacity for sustainable					
			resource/forest management of forests and other natural resources in the village				
			Establishment of a Mechanism on Sustainable CBFM / CBNRM				
			◆ The members further discussed and confirmed that the basic concepts of CB-NRM should be as follows.				
		l	CD-MAIN SHOULD DE AS TOHOWS.				

Meeting	Date	Participants	Highlights of disc	cussions		
			Items	Descriptions Control of Control o		
			Target natural resources	The village regulations can be effective in managing the following natural resources in a sustainable manner.		
			Tesources	Forests and non-timber forest products (NTFPs) including honey and tua		
				- Lands - Streams and water springs		
			Goal of CB-NRM	Sustainable management of forest-, land-, and water-related resources on a village level		
			Approaches to CB-NRM	Recognition of communities' vested rights to manage and use natural resources		
				b. Development of an enabling environment for CB-NRM on a village level		
				c. Empowerment of communities to manage natural resources in their localities		
			Major Activities for	d. Enhancement of communities' capacities to manage and protect natural resources     a. PLUP (Formulation of a future land use plan and village regulations)		
			CB-NRM	b. Monitoring of and assistance in the enforcement of the village regulations		
				c. Identification and selection of agricultural/forestry extension services (micro programs) effective in the implementation of the future land use plan		
				d. Implementation of the selected micro programs or agricultural/forestry extension services.		
			Stakeholders	a. Local communities: Managers of natural resources on a village level     b. NDF/MAF: Implementing agency/Supervisor/Facilitator     c. NGOs: Facilitator on a village level (NDF/MAF can outsource a part     of its tasks/roles, especially the roles of a facilitator on a village level.)		
			Source: JICA Project To	d. Local governments: Supporter/cooperator		
7th	Aug. 6,	11 members		e briefing about the draft policy		
meeting	2014		recommendation			
			CB-NRM me	chanism by the JICA Project		
			Team, the men	mbers discussed the draft policy		
			recommendation	ons prepared by the Project		
			Team.			
			◆ Some crucial of	comments and suggestions given		
			by the member	rs are summarized below.		
			<ol> <li>a. Actions pre</li> </ol>	oposed in the draft policy recommendations are rationale for		
			promotion of CB-NRM and therefore acceptable.			
			b. The establishment of the new department for CB-NRM, which is one of			
			the recommendations in the document, is not necessarily needed since			
			the newly	issued ministerial decree indicates that a new department		
			under the N	National Directorate of Forestry and Watershed Management,		
			i.e., Depart	tment of Reforestation and Community and Urban Forestry,		
			might have	functions similar to those of the proposed department.		
			c. The follow	ring points should be taken into account in the review of the		
				ommendations:		
				y extension worker (formally called "PLP (Field Officer for		
				ng)" should be recruited as field officers to promote the RM mechanism at the suco level;		
			- Nationa	al Directorate of Land and Property should be one of the key olders for promotion of CB-NRM;		
				it of the forest area in the policy recommendations should		
				km2 but ha; and		
				asis of the annual deforestation rate of 1.7 % should be ed in the policy recommendations;		
				rtant to clarify the roles and responsibilities of the staff		
			u. It IS IIIIpo	or the new department. In fact, the forest guards have not		
			fully perfo	or the new department. In fact, the forest guards have not been bringed their functions yet as many of them have not been		
	aware of their tasks.					
			e. The policy	recommendations are considered appropriate and timely as		
8th	Oct. 16,	7 members		nanagement bill will be approved by the GoTL.  discussed the draft ministerial		
meeting	Oct. 16, 2014	/ members				
meeting	2014		order for promotion of the CB-NRM mechmism and also how to get feedbacks from relevant			
			stakeholders on the draft policy			
			recommendations and the draft ministerial order			
				agreed with the draft ministerial		
			. The memoers	age to the distribution of the second		

Meeting	Date	Participants	Highlights of discussions
Meeting	Dute	rareterpantes	order after discussions.
9th meeting	Feb. 3, 2015	13 members	<ul> <li>◆ The members discussed how to obtain feedbacks and comments from relevant stakeholders about the draft policy recommendations with the draft ministerial order.</li> <li>◆ It was agreed among the members that a total of five (5) consultation meetings should be held at the following strategic locations to get opinions from a wide range of stakeholders at both district and central levels.         <ul> <li>Bauaue for Baucau, Lauten, Viqueque and Manatutu</li> <li>Ainaro for Ainaro and Manifahi</li> <li>Suai for Covalima and Bononalo</li> <li>Dili for Dili, Aileu, Ermera, and Liquica</li> <li>Dili for Central offies</li> </ul> </li> <li>◆ The members also decided to invite the following stakeholders to the consultation meetings at both levels.         <ul> <li>District Level</li> <li>◆ MAF District Offices</li> <li>◆ Municipal Government</li> <li>◆ District Natural Disaster Management Offices</li> <li>◆ District Environment Offices</li> <li>◆ District Environment Offices</li> <li>◆ District PNDS Offices</li> <li>◆ NGOs</li> <li>Central Level</li> <li>◆ Technical National Directorates of MAF (except Fisheries and Veterinary)</li> <li>◆ National Directorate of Environment</li> <li>◆ National Directorate of Natural Disaster Management</li> <li>◆ National Directorate of Water Supply and Sanitation</li> <li>◆ PNDS</li> <li>◆ MAF Development Partner-supported Projects</li> <li>◆ Universities</li> </ul> </li> </ul>
10th	Jun. 11,	9 members	◆ NGOs ◆ The members shared the results of the consultation meetings held in March
meeting	2015	7 memoers	<ul> <li>The members shared the results of the consultation meetings held in March and April 2015.</li> <li>At the same time, they reviewed the final versions of the plicy recommendations, the drat ministrial order, and the operation manual revised by the JICA Project Team based on the results of the consultation meetings.</li> </ul>

**Appendix-5.2** stored in the CD attached to this report shows reports and memos of all the meetings held with the NDF taskforce/working team in the course of the Project.

## 5.3 Preparation of the Operation Manual for Establishment of the CB-NRM Mechanism

#### 5.3.1 Preparation of the 1st Draft of the Operation Manual

The JICA Project Team prepared the first draft of a manual which described the whole process of and detailed procedures for establishment of a mechanism of CB-NRM (CB-NRM mechanism) on a village level in October 2013 based on the results of the activities carried out under Output 1. The manual was named "the Operation Manual for Establishment of the CB-NRM Mechanism at the Suco Level. The manual was submitted to NDF and the National Directorate of Support and Development of Agriculture and Communities (NDSDAC) in the same month for their review and comments, as they were expected to be the main users of the manual in future.

#### 5.3.2 Refinement of the 1st Draft of the Operation Manual

The 1<sup>st</sup> draft of the operation manal has been reviwed and revised through consultations with stakeholders and trial run of the manual in the field. Some hightlights of the activities for revision of the first draft are summarized below.

**Revision and Refinement of the Draft Operation Manual** 

Activities	Month	Description
Introduction to NDF and NDSDAC	February 2014	The JICA Prject Team held a introductory seminar on the draft operational manual inviting key officers of NDF, NDSDAC, and MAF District Offices in all the districts. A total of 39 MAF officers attended the seminar and discussed the draft operation manual with the JICA Project Team and the NDF taskforce/working team. The participants expressed their high interest in the draft manual and suggested that MAF/NDF should adopt the same for forest protection in the field. National Director of NDF also showed his intention to put the manual into practice sharing his idea on the utilization of the GEF's fund.
Trial use of the operation manual	May to October 2014	The draft operation manual was put into trial in the field by two local NGOs named PROSPECT and FRATANA, which were hired by the Seed of Life for introduction of PLUP in two (2) sucos in the Raumoo watershed in Lauten in 2014. The JICA Project Team togethe with the NGOs (RAEBIA Timor-Leste and Halarae Foundation) had assisted the two NGOs in the conduct of PLUP and also periodically evaluated the process to assess the applicability of the draft manual. The JICA Project Team revised the draft manual based on the results of the field assessment and opinions given by the experts of the Seed of Life.
Conultation meetings with relevant stakeholders at the central and district levels	March and April 2015	The JICA Project Team and NDF taskforce/working team jointly held a total of five (5) consultation meetings at strategic locations in Timor-Leste to introduce the following outputs to relevant stakeholders at both central and district levels.  - Draft policy recommendations for expansion of CB-NRM  - Draft ministerial order for promotion of the CB-NRM mechanism  - Draft operation manual for establishment of the CB-NRM mechanism  The operation manual was again revised refering to the comments and suggestions given by the participants in the counsultation meetings.  More details of the consultation meetings are described in Section 5.4 of this report.

Source: JICA Project Team (2015)

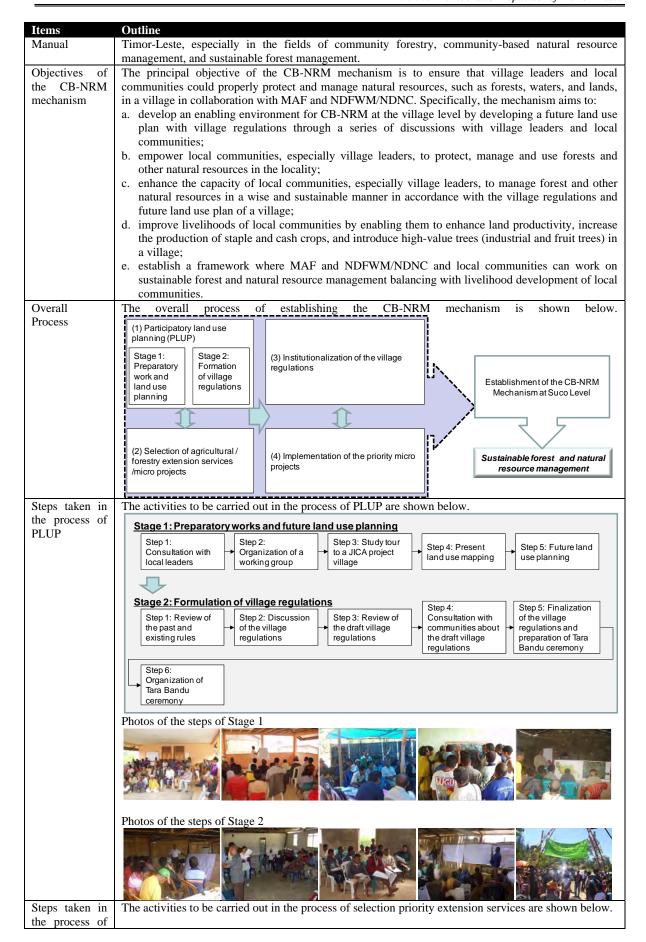
# 5.3.3 Finalization of the Operation Manual for Establishment of the CB-NRM Mechanism at the Suco Level

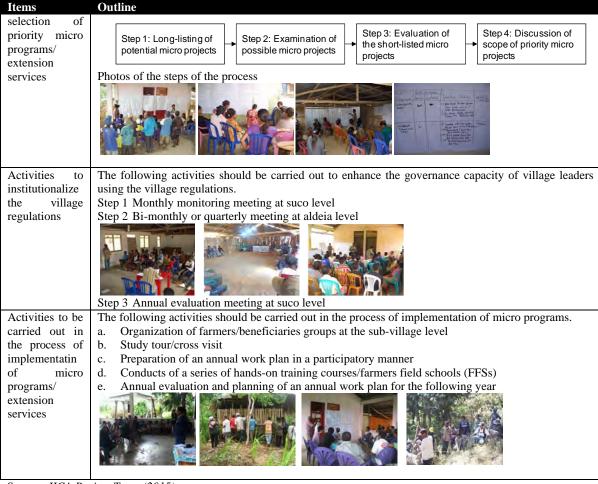
The JICA Project Team finalized the Operation Manual for Establishment of the CB-NRM Mechanism at the Suco Level in both languages, Tetun and English, and submitted 47 copies of the Tetun version with 22 copies of the English version to NDFWM/MAF in November 2015.

Both versions of the Operation Manual are shown in **Appendix-5.3** stored in the CD attached to this report. Some highlight of the manual are also summarized below.

**Outline of the Operation Manual** 

Items	Outline				
Objectives of	The main objective of the manual is to guide field workers, planners, and experts working in the forest				
the Manual	and agriculture sectors in Timor-Leste on how to put the CB-NRM mechanism in place at the village				
	level. The manual clarifies the effective procedures for introduction and institutionalization of the				
	mechanism in a participatory manner. Specifically, the manual specifies the procedures in detail for:				
	i) development of a future land use plan with village regulations of a village through participatory				
	land use planning (PLUP);				
	ii) institutionalization of village regulations as functional rules of a village and enhancement of the				
	capacity of village leaders to govern a village using the regulations; and				
	iii) selection and implementation of agricultural and forestry extension services or micro programs				
	effective in attaining the goal of a future land use plan of a village.				
Targets of the	This manual targets all the stakeholders who work in the forestry and agriculture sectors in				





#### 5.4 Preparation of the Policy Recommendations

In October 2014, the JICA Project Team drafted the policy recommendations for expansion of CB-NRM together with the draft ministerial order for promotion of the CB-NRM mechanism through a series of discussions with the NDF taskforce/working team as described in Section 5.1.

#### (1) Introductory Seminar at NDF

The draft policy recommendations with the draft ministerial order were introduced to key officials of NDF, such as Chiefs of Department of NDF, in a seminar held by the JICA Project Team together with the NDF taskforce/working team on November 19, 2014 to obtain the feedback from them. A total of 19 NDF officials took part in the seminar and the participants generally appreciated the process of making the documents and contents of both documents.

#### (2) Consultation Meetings at the Central and District Levels

In order to obtain opinions, comments, and suggestions on the draft policy recommendations and the draft ministerial order from a wide range of stakeholders at both central and district levels, the JICA Project Team held a total of five (5) consultation meetings in collaboration with the NDF taskforce/working team in March and April 2015.

Consultation Meetings held in March and April 2015

Date	Venue	No. of Participants	Target districts	Participants
March 3, 2015	Baucau	30 persons	Manatutu, Lauten,	MAF District Offices, Natural Disaster
			Viquque, & Baucau	Management, Environment, PNDS, SAS
March 13, 2015	Dili	30 persons	Dili, Aileu, Ermera,	ditto
			& Liquica	
March 18, 2015	Ainaro	23 persons	Ainaro & Manufahi	ditto
March 20, 2015	Suai	10 persons	Covalima &	ditto
		_	Bobonaro	
April 1, 2015	Dili	25 persons	Ministries and	National Directorates of MAF, National
			National	Directorate of Natural Resources,
			Directorates	GCCA-TL (GIZ), OXFARM, etc.

Source: JICA Project Team (2015)

In general, the participants in the consultation meetings accepted the ideas and outline of the documents introduced. Major comments given by the participants were terminologies and expressions/phrases used in the documents. The memos of the meetings are shown in **Appendix-5.4** stored in the CD attached to this report.

#### (3) Finalization of the Policy Recommendations and Ministerial Order

The JICA Project Team finalized the policy recommendations with the draft ministerial order in May and June 2015 based on the comments and suggestins given in the consultation meetings. A set of the policy recommendations with the draft ministerial order was submitted to NDFWM and MAF in July 2015 for approval. The whole document submitted to NDFWM is shown in **Appendix-5.5** stored in the CD attached to this report. The summary of the policy recommendations is shown below.

**Summary of the Policy Recommendations** 

	Summary of the Folicy Recommendations		
Outline	Descriptions		
Goal	The main goal of the policy recommendations is to indicate effective measures to expand the		
	CB-NRM mechanism for achievement of sustainable forest management in Timor-Leste.		
Specific objectives	1. CB-NRM will be officially adopted as one of the key strategies for sustainable forest		
	management in Timor-Leste.		
	2. The CB-NRM mechanism will be rolled out in strategically important areas as planned in th		
	Forest Conservation Plan.		
	3. Institutional set-up as well as framework to expand the CB-NRM mechanism will be developed		
	in the forestry sector in Timor-Leste.		
	4. Community Forest Management Agreement (CFMA) stipulated in the Forest Management		
	Decree will be granted to communities, especially those in villages where the CB-NRM		
	mechanism has been introduced.		
Strategies	Short-term strategies (2015~2017)		
(Short-term and	a. A new policy document on promotion of the CB-NRM mechanism will be approved and issued		
Medium-term)	by the MAF		
	b. The Forest Management Decree will be approved and enacted by the GoTL.		
	c. Key programs relating to CB-NRM in the Forest Conservation Plan will be implemented as		
	planned.		
	d. The Department of Reforestation and Community and Urban Forestry will be strengthened and		
	reinforced with the sufficient number of competent staff responsible for CB-NRM.		
	Medium-term strategies (2018~2020)		
	a. The capacity of key stakeholders will be sufficiently enhanced to introduce and promote the		
	CB-NRM mechanism at the village level.		
	b. Introduction of the CB-NRM mechanism will be integrated into the process of granting CFMA		
	and the standard operation procedures for introduction of CFMA will be developed.		
	c. The process of granting CFMA will be incorporated into the process of planning a village		
	development plan.		
	d. CFMA will be applied to villages where the CB-NRM mechanism has been introduced.		
	e. A new department for CB-NRM/CFMA will be established in NDFWM by upgrading the		
	community forestry setion in the Department of Reforestation and Community and Urban		
	Forestry.		
	f. Necessary agriculture and forestry extension services essential to establishment of the		
	CB-NRM mechanism will be provided to villages where the CB-NRM mechanism/CFMA is		
	introduced.		

Outline	Descriptions
Recommendations	<ol> <li>Mainstream CB-NRM as a key approach to sustainable forest management by issuing a new policy document which aims to roll out the CB-NRM mechanism in the critically important river basins.</li> <li>Expand the CB-NRM mechanism in villages as planned under Forest Conservation Program in</li> </ol>
	the Forest Conservation Plan.  3. Form a new department specifically for CB-NRM or Community-Based Forest Management (CREM) in NIDEWIA 2.
	<ul><li>(CBFM) in NDFWM.2.</li><li>4. Enact the Forest Management Decree along with its supporting guidelines, especially those for introduction of CFMA.</li></ul>
	5. Build the capacities of key stakeholders, especially MAF/NDFWM/NDFC and NGOs, to assist communities and their leaders in introduction of the CB-NRM mechanism and preparation for CFMA in the future.
	6. Use competent NGOs/facilitators as field facilitators to assist MAF and NDFWM/NDNC in the effective and smooth introduction of the CB-NRM mechanism in the field.
	7. Ensure that field officers of NDFWM/NDNC/MAF can get necessary administrative and financial support for them to engage in the promotion of the CB-NRM mechanism in the field.
	8. Integrate the process of introducing the CB-NRM mechanism or granting CFMA into the process of a village development planning.

#### 5.5 Assistance in Institutionalization of the Policy Recommendations

In order to facilitate discussions on the recmmendations described above, especially the first recommendation, namely, "Mainstream CB-NRM as a key approach to sustainable forest management by issuing a new policy document which aims to roll out the CB-NRM mechanism in the critically important river basin," the JICA Project Team drafted "the ministerial order for promotion of the CB-NRM mechanism" in both English and Portuguese, and submitted to NDFWM/MAF.

At the same time, the JICA Project Team had several meetings with Generl Director of Forestry on this matter in June and July 2015 to obtain his support for the policy recommendations. The recommendations with the draft ministerial order were finally endorsed by General Director of Forestry to the Minister of MAF on July 15, 2015 as shown in the letter issued by General Director in **Appendix-5.6** stored in the CD attached to this report.

The further follow-up made by the JICA Project Team revealed that the draft ministerial order had been shelved for the moment, although its concept was accepted, since it was difficult for MAF to issue a ministerial order without having the basic forest law. As of the time when the completion report is being prepared, the situation is still the same.

#### 5.6 Preparation of Quick Reference of the Operation Manual

In order to make the Operation Manual handy and easy to use in the field, the JICA Project Team developed an A-3-sized leaflet, which briefly describes the procedures for key processes of the establishment of the CB-NRM mechanism, namely PLUP, selection of priority agriculture and forestry extension services/micro programs, institutionalization of village regulations, and implementation of the extension sevices/micro programs.

Like in the case of the quick reference of the Technical Manuals, the JICA Project Team submitted about 200 copies of the Tetun version and about 50 copies of the English version of the quick reference to NDFWM in December 2015 for distribution to key stakeholders, especially field officers of MAF working in the Municipal offices concerned with the Laclo and Comoro river basins. **Appendix-5.7** stored in the CD attached to this report shows both versions of the quick reference of the Operation Manual.

#### Chapter 6 Results of the Activities under Overall Project Management

#### 6.1 Meetings and Seminars with NDF/MAF

In order to help NDF and MAF staff including the counterparts for the Project have a better understanding of the Project, the JICA Project Team has had the following meetings and seminars with the NDF and MAF over the course of the Project.

Meetings w	ith N	IDF/N	ИAF
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Meeting	Date	Highlights of discussions	
Kick off	Jan. 11,	◆ The JICA Project Team and NDF had a kick-off meeting with the participation of	
meeting with	2011	National Director of NDF and candidates for the counterparts in the beginning of	
NDF	2011	the Project.	
Kick-off	Jan. 18,	◆ Likewise, the JICA Project Team had a kick-off meeting with the MAF district	
	2011	· · · · · · · · · · · · · · · · · · ·	
meeting with	2011	office in Aileu to ensure the particiation of the district officers in the project activities as well as the assistance form the district office.	
MAF District Office in			
		◆ District Director expressed his willingness to cooperate with the Project and agreed	
Aileu	1 27	that his staff would work for the Project as counterparts.	
1 <sup>st</sup> Project	Jan. 27,	◆ In order to introduce the Project to the staff of NDF, especially chiefs of the	
Introductory	2011	departments of NDF, the JICA and MAF Project Teams held the project	
Seminar for		introductory seminar on January 27, 2011 at the conference room of NDF. A total	
NDF		of 14 participants attended the seminar and exchanged the views and opinions on	
and D	0 . 26	the Project.	
2 <sup>nd</sup> Project	Oct. 26,	◆ The JICA and MAF Project Teams jointly held the second project introductory	
Introductory	2011	seminar in October 2011 to share with the staff of NDF the progress of the Project	
Seminar for		and concepts of the micro programs that might be implemented in the target sucos.	
NDF		A total of 23 participants from NDF attended the seminar.	
		◆ It was a good opportunity not only for the NDF staff to enhance their awareness of	
		the Project but also for the counterparts to develop their presentation skills, as some	
-rd		of the presentations were made by themselves in the seminar.	
3 <sup>rd</sup> Project	Mar. 14,	◆ The JICA and MAF Project Teams organized the 3 <sup>rd</sup> project introducotry seminar	
Introductory	2013	inviting the relevant national directorates of MAF and other ministries, NGOs, and	
Seminar for		MAF develoment partners in March 2013.	
NDF (3 <sup>rd</sup> )		◆ In the seminar, the JICA and MAF Project Teams together with the partner NGOs	
		introduced the objectives, outline, and major activities of the Project together with	
		some results observed in the field to the participants.	
		◆ In the end of the seminar, the participants and the Project Teams exchanged the	
		opinions and ideas on approaches to sustainable forest management, particularly	
		the use of the customary rules.	
Seminars on	Dec. 2	◆ The JICA and MAF Project Teams held seminars at the MAF district offices	
CB-NRM	and 9,	concerned with the Laclo and Comoro river basins, i.e., Aileu, Ermera, Liquica, and	
Pamphlet and	2015	Manatutu to introduce and distribute the CB-NRM pamphlet and quick references	
Qucik		of the CB-NRM operation and technical manuals to the technical staff in the said	
References at		MAF district offices.	
MAF District		◆ A total of 88 participants attended the seminars held at the MAF District Offices	
Offices		and exchanged the ideas on CB-NRM with the JICA and MAF Project Teams in the	
		seminars.	
Launching	Dec. 11,	◆ The JICA Project Team and NDFWM held a ceremony of launching the CB-NRM	
and	2015	operation and technical manuals in December 2015 inviting all the natonal and	
Hand-Over of		district directors of MAF, MAF development partners, and national and	
CB-NRM		international NGOs working in the agriculture and forestry sectors in Timor-Leste.	
Manuals		◆ All the district directors and national directors who attended the ceremony recieved	
		the following manuals and other documents from NDFWM.	
		-Operation Manual for Etablishment of the CB-NRM Mechanims	
		-Technical Manuals (Vol. 1: Seedling Production and Tree Planting, Vol. 2:	
		Sustainable Upland Farming, and Vol. 3: Income Generating/Livelihood	
		Development)	
		-Manual for Establishment of a Watershed Management Council	
		-CB-NRM Information Kit	
		-CB-NRM Pamphlet	
		-Quick References of the CB-NRM Operation and Technical Manuals	
		◆ Other participants also recieved electrical files of the above-listed materials	

Meeting	Date	Highlights of discussions
		together with the printed booklets/leaflet of the pamphlet and quick references.

Memos of the meetins and seminars listed above are shown in **Appendix-6.1** stored in the CD attached to this report.

#### 6.2 Procurement of the Project Equipment

In accordance with the R/D of the Project, the JICA Project Team has procured the following project equipment over the course of the Project.

**Project Equipment Procured and Handed Over to MAF/NDF** 

Equipment	Type/Model	Unit	Month of procurement
Motorbikes	Honda Megapro 150	4	May 2011
Photocopy machine	Xerox DC 1085	1	March 2011
Desktop Computer	HP pro 3000 Desktop	1	March 2011
	HP LE1851W 18.5" Monitor		
Software	Microsoft Office Home and Business 2010	1	March 2011
Anti-virus Software	Kaspersky AntiVirus 2011	1	February 2011
Projector	LCD Projector SANYO PDG-DSU20	1	May 2011
Generator	Honda SGX 2500	1	June 2011
GPS	Garmin E-treck	4	January 2011
Project Vehicles	Toyota Hi Lux 3000	2	June 2012

Source: JICA Project Team (2012)

All the equipment and tools were officially handed over to MAF/NDF either on August 2, 2011 or June 14, 2012 as shown below.

Dates of Hand-over of the Equipment

Dates of Fland Over of the Equipment					
Equipment	Unit	Date of Hand-over			
Motorbikes	4	August 2, 2011			
Photocopy machine	1	August 2, 2011			
Desktop Computer	1	August 2, 2011			
Software	1	August 2, 2011			
Anti-virus Software	1	August 2, 2011			
Projector	1	August 2, 2011			
Generator	1	August 2, 2011			
GPS	4	August 2, 2011			
Project Vehicles	2	June 14, 2012			

Source: JICA Project Team (2011)

Although they were handed over to MAF/NDF, the JICA and MAF Project Teams have preferentially used them for project operations as mutually agreed upon by JICA and MAF. The agreements exchaged by both parties are shown in **Appendix-6.2** stored in the CD attached to this report.

#### 6.3 Joint Coordination Committe (JCC) Meetings

As of the time when this report is prepared, the JICA and MAF Project Teams have held a total of seven (7) Joint Coordination Committee meetings. Minutes of the meetings are shown in **Appendix-6.3** stored in the CD attached to this report, and some hightlights of the discussions in the meetings are summarized below.

JCC Meetings held during the Project Period

boo weekings held during the rifocot renou					
Meeting	Date	<b>Major Participants</b>	jor Participants Highlights of discussions		
1 <sup>st</sup> JCC	Aug. 2,	Secretary of State for	◆ The JCC members sugested that the Project should involve the		
Meeting	2011	Agriculture and	staff of the other relevant national directorates of MAF when		
		Arboriculture, Chief	implementing the micro programs to maintain the quality of the		
		Representative of	work.		

Meeting	Date	Major Participants	Highlights of discussions
	Date	JICA Timor-Leste, and five (5) National Directors of MAF	◆ Secretary of State for Agriculture and Arboriculture insisted that the NDF should have the responsibility for execution of the project budget as an implementing agency. Nevertheless, the chairperson of the JCC meeting, National Director of NDF, responded that NDF considered the current project design acceptable and realistic since i) the capacity of NDF was still too limited to implement the Project and ii) NDF needed to learn skills and techniques to develop its capacity to implement a similar project in future.
2 <sup>nd</sup> JCC Meeting	Nov. 30, 2011	Chief Representative of JICA Timor-Leste and five (5) National Directors of MAF	<ul> <li>The JICA and MAF Project Teams explained the PDM, PO, and an annual plan of operation (APO) from January 2011 to March 2012 in addition to the progress of the Project.</li> <li>The members unanimously approved the PDM. PO, and APO of the Project in the meeting.</li> </ul>
3 <sup>rd</sup> JCC Meeting	Oct. 24, 2012	Secretary of State for Forets and Nature Conservation, General Director MAF, Chief Representative of JICA Timor-Leste, and representatives of National Directorates of MAF	<ul> <li>◆ The JICA and MAF Project Teams explained the APO from April 2012 to March 2013 and the progress of the Project. The APO was unanimously approved by the participants in the meeting.</li> <li>◆ There were also some valuable comments and suggestions from Secretary of State of Forest and Natural Conservation and General Director of MAF on the support from MAF for expansion/continuation of the project activities as follows.</li> <li>- Secretary of State of Forest and Natural Conservation appreciated the effectiveness of the project activities stating that the Government put a high priority on the protection of forest resources from illegal logging.</li> <li>- General Director suggested the possibility that MAF might be able to provide the financial support to the Project for expansion of the project activities.</li> <li>- Secretary of State also advised the MAF and JICA Project Teams to exchange information with the watershed management project being implemented in Lauten, since the same project seemed to take a participatory approach similar to the Project for sustainable forest management in the upper watershed of the Raumoco river.</li> </ul>
4 <sup>th</sup> JCC Meeting	Mar. 1, 2013	General Director MAF, Chief Representative of JICA Timor-Leste, Five (5) representatives of National Directorates of MAF amd Chief of Cabinet of Secretary of State for Forets and Nature Conservation	the meeting.  ◆ The members of the JCC unanimously approved the revised PDM and PO after the presenttion made by the JICA Project Team.  ◆ In responce to the recommendation on MAF's financial responsibility for counterpart budget, General Director of MAF and other JCC members commented as follows.  - MAF will seriously take into account the recommendations given by the Joint Mid-term Review Team.  - MAF could be able to increase its budget from 2014 or 2015, if its current efforts to improve its budget utilization result in good performance.  - The Project should prepare a five-year plan of CB-NRM activities and incorporate the plan into the investment plan of NDF from 2014 to 2018 so that NDF could have a basis for annual budget request on CB-NRM.
5 <sup>th</sup> JCC Meeting	Jan. 21, 2014	General Director of MAF, Chief Representative of JICA Timor-Leste, Four (4) National Directors of MAF,	<ul> <li>The participants discussed i) progress of the Project, ii) pending indicators of the PDM, and iii) new structure of JCC. The participants agreed with the revised PDM and the new structure of the JCC.</li> <li>It was suggested by and agreed upon among the participants in the meeting that NDF should submit the revised PDM and proposed</li> </ul>

Meeting	Date	Major Participants	Highlights of discussions
Meeting  6 <sup>th</sup> JCC Meeting	Oct. 26, 2014  Jul. 23, 2015	Major Participants and Nine (9) representatives from National Directorates of MAF  Chief Representative of JICA Timor-Leste, Three (3) National Directors of MAF, and Five (5) representatives from National Directorates of MAF	Highlights of discussions  structure of the JCC to all the JCC members/national directors in wiriting and request them to give their comments on the same within a counple of week to confirm their acceptance.  ◆ Both documents were deemed to be approved by JCC since there had been no objections from the JCC members after submittion in the beginning of February 2014.  ◆ The JICA Project Team explained the revised PO and APO from April 2014 to October 2015 stressing the activities for formation of a watershed management council of the Noru watershed, which was newly added to the plan in 2014.  ◆ The participants in the meeting unanimously approved the revised PO and APO.  ◆ They also agreed with the idea given by Chief Representative of JICA Timor-Leste Office that the members of the JCC should visit the target sucos to get a clear picture of the Project. The JICA Project Team committed itself to invite them to the study tour to Suco Tohumeta, which was arranged and held in November 2014.  ◆ The JICA Project Team introduced the latest PDM and PO and seeked the
Meeting	2015	MAF, General Director of Forestry, General Director of Agriculture and Livestock, Chief Representative of JICA Timor-Leste, Five (5) National Directors of MAF, and Three (3) representatives from National Directorates of MAF	latest PDM and PO and seeked the approval from the JCC members. The participants in the meeting unanimously approved the latest PDM and PO.  ◆ The MAF and JICA Joint Evaluation Team also explained the result of the terminal evaluation of the Project in the meeting.  ◆ Key high officers of MAF gave some valuable comments in the meeting as follows.  - H.E, Vice Minister commented that the project documents, namely the operation and technical manuals developed by the Project should be fully used by the MAF field officers  - National Director of NDFWM commented that he intended to establish one special unit exclusively for the CB-NRM Project to ensure the MAF/NDFWM officials could fully take part in the project activities.  - General Director of Forestry expressed his appreciation for the efforts and results made by the Project, especially the documents developed by the Project at the different levels.
8 <sup>th</sup> JCC		General Director of	◆ The JICA Project Team introduced the outline of the project
Meeting	17, 2015	Forest, Coffee and Industrial Plant,	completion report with the summary of results of the Project.  ◆ The JCC members unanimously approved the project completon
		Chief Representative	report.
		of JICA Timor-Leste, National Directors of	
		MAF, and	
		Representatives from National Directorates	
		of MAF	

#### 6.4 Public Relations

#### 6.4.1 Issuance of Project Newsletters

In order to make a wide range of stakeholders aware of the Project and its activities, the JICA Project Team has prepared a total of seven (7) issues of the project newsletters as of the end of March 2015.

**Project Newsletter Issued by the Project Team** 

Issue	Month of Issuance	Contents
No. 1	Mar. 2011	Background and outline of the Project
No. 2	July 2011	Current conditions of six (6) target sucos and the results of PRA concucted in the
		sucos
No. 3	April 2012	Process of selection of the micro programs in four (4) target sucos
No. 4	August 2012	Major progress of the Project from April to July 2012, e.g., PLUP in two (2) target
		sucos, implementation of the micro programs in four (4) sucos, and training activities
		done by the Project.
No. 5	June 2013	Major proress of the Project from July 2012 to March 2013, e.g., implementation of
		the micro programs in six (6) target sucos, activities done by the JICA Project Team,
		and the results of the discussion with the NDF taskforce/working team.
No. 6	January 2014	Major progress of the Project from April to November 2013, e.g., process of
		institutionalization of the village regulations in six (6) sucos, implementation of the
		micro programs in six (6) sucos, training courses arranged and held by the JICA
		Project Team, and the results of the discussion with the NDF taskforce/working team.
No. 7	September 2014	Processes and results of i) development of the policy recommendations and ii)
		formation of the watershed management council of the Noru river watershed

Source: JICA Project Team (2015)

The newsletters were distributed to the relevant government offices, MAF development partners, and international/national NGOs working in the agriculture and foretry sectors in Timor-Leste. All the newsletters issued by the Project are shown in **Appendix-6.4** stored in the CD attached to this report.

6.4.2 Events organized by the JICA Project Team for Information Dissemination To raise awareness of the project activities among high officials of MAF, the JICA Project Team has arranged and organized the following events in collaboration with the partner NGOs.

**Events arranged by the JICA Project Team and Partner NGOs** 

Events	Month	Key participants	Major activities
Harvesting	April 2013	Secretary of State of Forest and	- Observation of field
ceremony at Suco		Nature Conservation, District	activities and results
Fadabloco		Director of MAF,	- Meeting with local
		Representative of NDF,	communities
		Representative of JICA	
		Timor-Leste Office, and	•
		Experts from Seed of Life and Worldbaknk	
Harvesting	March 2015	General Director of Forest,	Ditto
ceremony at Suco		Representative of NDFWM,	
Tohumeta		and District Director of MAF	

Source: JICA Project Team (2015)

#### 6.4.3 Participation in Exihibitions and Presentation in Conferences

In addition to the events that the JICA Project Team arranged and organized, the Project Team and the partner NGOs have participated in the following exhibitions and conferences to introduce the approaches and results of the Project during the project period.

Events that the JICA Project Team and Partner NGOs participated for Introduction of the Project

Events that the block i roject	Events that the block i toject reall and i arther 1003 participated for introduction of the i toject				
Events	Month	Activity			
Exhibition of MAF's activities	October 2013	Introduced the project activities by displaying the project newsletters, future land use maps and village regulations developed by the target sucos, local products produced by the beneficiaries' and women groups in the target sucos, and photos of the project activities.			
CBD event organized by UNDP in Dili	May 2014	Ditto			

Events	Month	Activity
Workshop organized by Global Climate Change Adaptation (GCCA)	11010111001	Presentation of the concept and activities of the CB-NRM project Arrangement of a study tour for the participants in the workshop to the target suco.

#### 6.5 Training of Counterparts in Japan

A total of nine (9) counterparts took part in the training courses in Japan as shown below.

Training Couses in Japan arranged for the Counterparts

Year	Trainees	Position and Department	Period	Topics of the course
2011	Mr. Vildito	Staff of Dept. of Watershed	Nov. 27	a. Overview of the forest sector and its
	Ximenes	Management	~ Dec.	legislative framework in Japan
		District Forest Officer in	21	b. Forest management techniques aplied
	Mr. Marcelino	Aileu		under sub-troical climate condition
	Perreira			c. Forest management systems applied by
				the different management bodies
2012	Mr. Fernando C.	Chief of Dept. of	Nov. 30	a. Overview of the forest sector and its
	Aroujo	Reforestation	~ Dec.	legislative framework in Japan
	Mr. Mario Alves	Staff of Dept. of Forest	22	b. Silvicultural techniques in Japan
		Protection		c. Forest management systems applied by
				the different management bodies
				d. Approaches taken for sustainable land
				and natural resource management in Asia
2013	Mr. Benjamin de	Forest Guard in Aileu	Aug. 25	a. Overview of the forest sector and its
	Suri		~ Sep. 11	legislative framework in Japan
	Mr. Mayuskling	Forest Guards in Aileu		b. Reforestation and silvicultural techniques
	Gutterres			in Japan
				c. Public awareness and other approaches to
				protection of forests in Japan
2014	Mr. Manuel Mendes	National Director of NDF	Aug. 31	a. Overview of the forest sector and its
			~ Sep. 9	legislative framework in Japan
	Mr. Mateus Gomes	Staff of Dept. of Reforestation	Aug. 24~	b. Training of foresters in Japan
	Ms. Celestina	Staff of Dept. of Forest	Sep. 17	c. Watershed management in Japan
	Barreto	Protection		d. Forest management using the Satoyama
				aproach

Source: JICA Project Team (2015)

The JICA Project Team arranged for the training courses coordinating with the relevant organizations in Japan prior to the courses. A member of the JICA Project Team also accompanied the counterparts during the training courses in Japan.

#### 6.6 Coordination with Other Organizations

#### (1) Visit of a Mission from RECOFTC

The JICA Project Team accepted a mission from RECOFTC in Thailand in February 2012. The mission held focus discussions and group conducted semi-structured interviews with the JICA and MAF **Project Teams** to assess the training/capacity development needs of the counterparts. As a result of its short visit, the mission drafted a capacity development program for the counterparts as well as other staff of NDF and submitted the same to JICA HO.



Visit of a Mission form RECOFTC

(2) Exchange Visit by Communities from the Raumoco Watershed Management Council

The JICA Project Team together withthe partner NGO (RAEBIA Timor-Leste) received an exchange visit of a group of communities suppoted by the Raumoco watershed management project in November 2012. The exchange visit was arranged by HIVOS, an international NGO working for the same project.

As the aim of the exchange visit was to learn the process and effectiveness of PLUP, the Project Team with the NGO i) gave the group briefings of the watershed management plan for Laclo and Comoro river basins and the major project activities, especially the process of PLUP; ii) arranged a meeting between the group and the village committee of Suco Faturasa, and iii) provided an opportunity to observe the training session of SUFP-MP in Sucos Faturasa and Fadabloco.



Visit of Communities from the Raumoco Watershed

#### (3) Assistance in the Conduct of PLUP in the Raumoco Watershed

In the concrete, the JICA Project Team together with the partner NGOs, RAEBIA Timor-Leste and Halarae Foundation, had helped two local NGOs hired by Seed of Life assist two (2) sucos in the Raumoco watershed in the formulation of the village regulations and future land use plans of the sucos following the process of PLUP from June to October 2014.

As a result, the two local NGOs had gone through all the processes of PLUP and were able to help village leaders and communities in two (2) sucos develop the village regulations and future land use plans.



**PLUP at Sucos in Raumoco** 

# (4) Information Sharing and Support for Field Visit by MAF Development Partners

The JICA Project Team have kept communicating with the relevant MAF development partners and their supporting projects to share the experiences gained by the Project and introduce the results of the Project, especially the CB-NRM mechanism/approach developed by the Project, so that those who might have interest in the CB-NRM mechanism/approach could put it (or even part of it) to tiral in their target areas.

To thi end, the JICA Project Team has conducted the following activities in coordination with the partner NGOs over the course of the Project.

- Meetings with the experts from WorldBank, UNDP, FAO, EU, GIZ, COMES, USAID, AusAID/DFAT, OXFARM, and Marcycorp to share the project infromation
- b. Support for field visits of WorldBank, EU, GIZ, USAID, and AusAID/DFAT to the target villages and explanation of the project activities in the field



Field Visit by WorldBank

c. Sharing of project documents, epecially the policy recommendations with draft ministerial order, and CB-NRM operation and technical manuals, and other public relations materials, with UNDP, FAO, EU, GIZ, COMES, USAID, and AusAID/DFAT

#### 6.7 **Project Evaluation**

The Project has been evaluated periodically by JICA and MAF in accordance with the R/D exchanged by both organizations. Chapter 7 of this report describes the results of the terminal evaluations joinytly conducted by JICA and MAF in June/July 2015. Some key results of the mid-term review and terminal evaluations are summarized below.

Evaluation	Period	Summary of		rminal Evaluation	
				1 4 141 C C41 D : 4: 4	
Mid-term evaluation	Feb./Mar/ 2013	The joint evaluation team evaluated the performance of the Project in terms of			
				on criteria. The results of the evaluation wer	
		summarized below.			
		Evaluation of	criteria	Results	
		Relevance		High	
		Effectiveness	s (Prospect)	Moderate	
		Efficiency		Relatively high- moderate	
		Impact		Some positive impacts have been observed.	
				No negative impacts have been observed.	
		Sustainability	y (Forecast)	Sustainability is not likely to be ensured sufficiently.	
		Source: JICA	and MAF Join	nt Mid-term Evaluation Report (2013)	
		Based on the	e reviews and	d analyses made, the review team revised the PDM	
		and PO of the	e Project and	made the following recommendations to the relevar	
		parties.	-	-	
		Address to	Descriptions		
		MAF and	1) Clarificati	on of specific roles and responsibilities of the stakeho; ders at field	
		JICA Project	level		
		Teams		capacity development plans for the Timorese project personnel ent of an operatipnal manual, technical manuals and policy	
			recommen		
				ent of simplified methodology/techniques	
			5) Information	on sharing workshops in the project sites	
				s building for high officials	
				tion of the planned value of the indicators of the PDM g of the indicators of the PDM	
		MAF		of budget for running expenses of the project	
		1 11111		n of a budget plan for the post-project period	
				nt of an official od the NDSDAC as Timorese project personnes or	
			focal poin		
		JICA		mobilization and coordination	
T:11+:	Feb./Mar/ 2013			id-term Evaluation Team (2013)	
Final evaluation	Feb./Mar/ 2013			on of the Project based on the five evaluation criteri	
		are summariz			
		Relevance	iteria Re	sults	
		Effectiveness	His		
		Efficiency		oderate	
		Impact		me positive impacts have been observed.	
			No	negative impacts have been observed.	
		Sustainability		stainability is yet to be ensured sufficiently, although it is expected	
				some positive aspects.	
				Terminal Evaluation on the Project for Community Based Reousrce Management in the Democratic Republic of	
			Leste (2015)	Redustee Management in the Democratic Republic of	
			, ,		
		Furthermore,	the joint eva	luation team made the following recommendations.	
		Address to	Results		
		MAF and		er friendly manuals.	
		JICA Project		ublic relations materials.	
		Teams		a manual on establishment and operation of a watershed ent council.	
		MAF		e policy recommendations.	
				ne CB-NRM practices in the target sucos.	
				ne watershed management council of the Noru watershed.	
				e equipment and tools privided by the Forest Preservation	
			Programm		
				ne CB-NRM mechanism.	
				e Noru watershed management council. reness of local residents in the target areas.	
		JICA		mobilization and coordination	
			. /	Terminal Evaluation on the Project for Community Based	
				Reousrce Management in the Democratic Republic of	
		Timor-	Leste (2015)		

Source: JICA Project Team (2015)

#### 6.8 Project Reports and Other Deliverables

The JICA Project Team has developed and submitted the following project reports/deliverables to NDF/MAF during the project period.

Reports and Deliverables submitted by the JICA Project Team

Type of document	Title of doccument	Month of submission
Project Report	Inception report in English	January 2011
January	Progress Report (1) (Tetun and English)	November 2011
	Progress Report (2) (Tetun and English)	December 2012
	Progress Report (3) (Tetun and English)	December 2013
	Progress Report (4) (Tetun and English)	February 2015
	Annual Completion Report (2011/2012) (Tetun and English)	April 2012
	Annual Completion Report (2012/2013) (Tetun and English)	March 2013
	Annual Completion Report (2013/2014) (Tetun and English)	April 2014
	Annual Completion Report (2014/2015) (Tetun and English)	March 2015
	By-monthly Progress Reports from January 2011 to February 2015	Jannuary 2011 ~
	(Tetun and English)	March 2015
Manuals	Operation Manual for Establishment of the CB-NRM Mechnism at the	November 2015
	Suco Level (Tetun and English)	
	CB-NRM Technical Manuals (Vo1. 1 ~ Vol. 3) (Tetun and English)	November 2015
	Manual for Formation of a Watershed Management Council (Tetun and	November 2015
	English)	
	Quick reference of the Operation Manual (Tetun and English)	December 2015
	Quick reference of the Technical Manuals (Tetun and English)	December 2015
Technical	CB-NRM Information Kit (Tetun and English)	November 2015
Reference		
Policy Documents	Policy Recommendations for Expansion of CB-NRM (Tetun and English)	July 2015
	Draft Miniterial Order for Promotion of the CB-NRM Mechnism	July 2015
	(Portuguese and English)	
Public Relations	CB-NRM Pamphlet (Tetun and English)	December 2015
	Project Nesletters (Issue No. 1~No.7) (Tetun and English)	March 2011 ~
0.1	Will ID D Cill C 4 Th ( Will (The I	September 2014
Others	Village and Resource Profilles of the Target Villages (Tetun and English)	November 2013
	Reports of the Feedback and Planning Seminars held from 2012 to	March 2012~ February
	2015 (Tetun and English)	2015
	Reports on the 3 <sup>rd</sup> ~9 <sup>th</sup> meetings with the NDF Taskforce/working team	December
	(Tetun and English)	2012~February 2015

Source: JICA Project Team (2015)

# Chapter 7 Accomplishments of the Project and Summary of the Results of the Terminal Evaluation of the Project

#### 7.1 Assessment of the Level of Achievements of the Project

Objectively Verifiable Indicators | Achievement (as of the end of November 2015)

The JICA and MAF Project Teams assessed the level of achievements of the Projects by checking whether or not the indicators given to the project purpose and outputs in the latest PDM were attained as of the end of November 2015. Based on the assessment made, the JICA and MAF Project Teams judged that all the indicators had been satisfied as of the end of November 2015 as described below.

#### Level of Achievement of the Project

a. Pro	ject	Pur	pose
--------	------	-----	------

Objectively verifiable indicators	Achievement (as of the end of November 2015)
a. By the Project end, an operational manual of CB-NRM for the Target Area, which clarifies the procedures for implementation of CB-NRM at village level as well as roles/responsibilities of the stakeholders, is approved by Director General (DG) of MAF	<ul> <li>Achieved:</li> <li>Having drafted the operation manual for establishment of the CB-NRM mechanism at the village lavel in October 2013 based on the results of PLUP activities done in the target sucos, the JICA Project Team has refined and finalized the same through dicusions with NDF and MAF stakeholders and a trial run in the field.</li> <li>The operation manual introduces: i) the process of and procedures for introduction and establishment of the CB-NRM mechanism at the village level, ii) institutional framework for esstalibshment of the CB-NRM mechanism, and iii) roles and responsibilities expected to be borne by key players/actors in the process.</li> <li>In October 2015, the manual was approved by General Director of Forestry, MAF.</li> </ul>
b. By the Project end, technical manuals on CB-NRM micro project related techniques for the Target Area are approved by DG of MAF	Achieved:  ► The first draft of the techncal manuals on CB-NRM micro programs, namely Vol. 1: Seedling Production and Tree Planting, Vol. 2: Sustainable Upland Farming Promotion (including Community-Based Seed Extension), Vol. 3: Income Generating/Livelihood Development, were prepared by the JICA Project Team in April 2014.  ► The JICA Project Team has revised and improved the technical manuals based on the reults of the micro programs implemented in the target villages and comments/suggetions obtained in the consultations with potential users of the manuals, such as MAF technical and field officers and NGO staff in 2014/2015.  ► Finalized by the JICA Project Team in September 2015, the technical manuals were approved by General Director of Forestry, MAF in October 2015 when the operation manual was approved.
c. By the Project end, the draft policy recommendations to support and promote CB-NRM in the Target Area are endorsed by DG of MAF for approval by Secretary of State for Forest and Nature Conservation	<ul> <li>Acheived:</li> <li>▶ The draft policy recommendations were prepared in August 2014 through a series of discussions with the NDF taskforce/working team. Furthermore, the ministerial order for promotion of the CB-NRM mechanism was drafted in October 2014 based on the results of the discussions with the taskforce/working team. These documents (the draft policy recommendations and the draft ministerial order) were introduced to NDF officers in a seminar held in November 2015.</li> <li>▶ In order to get feedbacks and comments on the documents from a wide range of stakeholders at the district and central level, the JICA Project Team and the NDF taskforce/working team jointly held four (4) consultation meetings at the district level and one meeting at Dili with those at the central level in March and April 2015.</li> <li>▶ The JICA Project Team revised and finalized the draft policy recommendations and the draft ministerial order based on the results of the consultation meetings in May/June 2015, and submitted the same to General Director of Forestry, MAF through NDFWM for approval and endorsement.</li> <li>▶ In July 2015, a set of the documents, policy recommendations for CB-NRM expansion with the draft ministerial order for promotion of the CB-NRM mehanism, was endorsed by General Director of Forestry for approval of Minister of MAF.</li> </ul>
d. By the Project end, on average,	Acheived:

#### Objectively Verifiable Indicators more than 75 % of the Project

#### Achievement (as of the end of November 2015)

more than 75 % of the Project Personnel of NDF and MAF reach at least the second best level of five (5)-level evaluation rating set by the Project for the items identified in the respective capacity development plans, which are in line with their roles/responsibilities in CB-NRM

▶ The JICA Project Tam has evaluated the level of the counterparts' understanding of the crucial points of key CB-NRM techniques by using a set of questionnaires in March 2015. All the active counterparts (11 counterparts) except Project Manager and Project Coordinator erwere requested to answer the questionnaires. The results of the questionnaire survey showed that more than 80 % of the counterparts (nine counterparts out of 11) got more than the second best accuracy rate (more than 60 %) of five (5)-level score range.

Source: JICA Project Teams (2015)

#### b. Level of Achievement of Output 1

### Objectively Verifiable Indicators Achievement (as of the end of November 2015) 1a By September 2012, in all Achieved:

- 1a By September 2012, in all target sucos, participatory land use plans (PLUPs) with the suco regulations are agreed by the respective suco regulation ceremonies
- ▶ All the six (6) target sucos had developed the village regulations and future land use plans and officially announced the implementation/enforcement of the village regulations through the traditional ceremonies by September 2012.
- 1b At the Project end, in all target sucos where the suco regulations are introduced, annual number of forest fires, illegal cutting, and crop damage made by free grazing are found to be decreased according to the observation of the respective suco regulation committees
- Achieve:
- 1c At the Project end, in all target sucos, more than 80% of the registered beneficiaries of reforestation, sloping agriculture/agroforestry, and alternative livelihood activities each under the micro projects in the second-batch of training consider that the concerned activity has contributed to their livelihood improvement.
- ▶ According to the observation of village leaders, the incidence of forest fires, illegal cutting, and crop damage caused by free grazing animals has been drastically reduced since the introduction of the village regulations, although there have been still some cases of wild fires, illegal cutting, and free animal grazing occurring in the villages.
- ▶ Overall, village leaders' capacity for problem-solving has been enhanced in all the villages. In fact, one of the villages has developed an internal monitoring system to reduce the incidence of fire.

#### **Acheived:**

- ▶ In 2013/2014, out of 941 registered beneficiaries in the six (6) sucos, a total of 890 members (95%) have engaged in the micro program activities, such as sloping agriculture, seedling production, reforestation, livelihood development, and sustainable upland farming.
- ▶ At the end of the 2<sup>nd</sup> year's training curricula of the micro programs in the first batch of villages (Sucos Fadabloco, Faturasa, Madabeno, and Talitu), 813 members (about 92 %) out of 884 registered memberrs have applied the techniques that they learned. More details are given below.
  - ✓ 249 members (94 %) out of 266 registered beneficiaries of SPTPP-MP in Sucos Madabeno and Talitu planted a total of 22,200 seedlings in 2012/2013, while 302 members (89 %) of 338 registered ones of the same micro program planted 22,600 seedlings in 2013/2014.
  - ✓ About 95 % (or 547 members) of 578 registered beneficiaries of SUFP-MP and SUFP with CBSE-MP in the four (4) villges applied the sustainable upland farming techniques to their own farms.
  - ✓ 17 members (43 %) of 40 women in the four (4) women's groups mainly engaged in the production of cassava chips and earned US\$ 540 in gross profit from selling their products as of the end of February 2014.
- ▶ Likewise, a total of 215 members (or 96 %) of the registered beneficiaries (225 member) of the micro programs in the 2<sup>nd</sup> batch villages (Suco Hautoho and Tohumeta) applied those that they learned through the FFSs of the micro programs.
- ▶ Furthermore, about 83 % or 514 members of the micro programs in the 1<sup>st</sup> batch sucos (620 registered members in total in 2014/2015) continued the micro program activitie with limited support from the NGOs as they judged that the techniques introduced by the micro programs would contribute to improvement of their livelihoods.
- ▶ More details of the results in 2014/2015 are shown below.
  - ✓ In the second batch villages, 100 % of the registered members of SUFP with CBSE-MP and SUB/PF-MP have applied the sustainable upland farming techniques to their own farms and appreciated the effectiveness of such techniques.
  - ✓ About 20 women out of 30 registered members of IG/LD-MP in Suco Hautoho have engaged in kontas chips production and mending of cloths by

<b>Objectively Verifiable Indicators</b>	Achievement (as of the end of November 2015)
	using sewing machines and earned cash income from the activities.
	✓ About 86% members (or 497 members) of those who participated in the
	follow-up activities of SUFP with CBSE-MP and SPTPP-MP in the 1st
	batch villages (580 members in total) have applied the sustainable upland
	farming techniques to their own farms.
	✓ About 96 % (or 256 members) of the registered members of SPTPP-MP in
	2014 have prepared their lands for planting seedlings in 2014/2015.
	✓ The active members (17 members) of the women's groups in Suco
	Fadabloco have continued cassava chips production and earned more than
	US\$ 3,000 from the sales o as of the end of March 2015.

#### c. Level of Achievement of Output 2

# Objectively Verifiable Indicators 2a All of the topics related to CB-NRM, identified through the training needs assessment, are covered by the training, including technical & planning seminars, and on-the-job training.

#### Achievement (as of the end of November 2015)

#### <u>Achieved:</u>

- All the 10 topics listed in the capacity development plan (i.e., i) overall aims and concepts of CB-NRM, ii) village profiling/PRA, iii) PLUP, iv) participatory monitoring and evaluation of village regulations, v) participatory planning, vi) relevant agriculture and forestry skills, vii) participatory monitoring of micro programs, viii) planning of annual work plan, ix) facilitation skills, and x) TOR for implementation of micro project have been handled by technical seminars by the end of March 2013.
- ▶ In addition, technical seminars/study tours on the following topics have been conducted for the counterparts from April 2013 to the end of March 2015.
  - Building of an animal pen
  - Use of natural resources for livelihood development
  - Stall feeding and fodder production
- The counterparts have engaged in OJT in field monitoring and supervision of the micro programs from January 2012 to June 2015. They also played a leading role in seminars and study tours held for key officers of the district MAF offices in Ermera, Liquica, Aileu, and Manatut as part of ToT in 2013 and 2014.

# 2b On average, the technical seminar participants give 4 points on a five-point scale about "understandability of materials", "clearness of explanation", and "relevancy of topic" of the concerned seminars

#### **Achieved:**

▶ As of the end of December 2014, a total of 15 technical seminars including refreshing courses have been conducted by the Project. On average, about 76.2 % of the target members have participated in the seminars. The participants of the seminars gave more than 4 points each for the three criteria (understandability of materials, clearness of explanation, and relevancy of topic) on average as shown below.

	Evaluation	of the	Semin	ars
iteria				Averag

Criteria	Average score
Understandability of materials	4.3
Clearness of explanation	4.2
Relevancy of topic	4.3
a water	

Source: JICA Project Team (2014)

2c At the Project end, on average, the Project Personnel of NDF and MAF evaluate their understanding about the training topics as at least middle on three-point scale.

#### Achieved:

In the feedback and planning workshops held in January and February 2014, the MAF Project Team evaluated their understanding of the topics relevant to CB-NRM. The results of the workshops revealed that the participated members judged that their understanding was more than the middle level on three-point scale as summarized below.

Summary of the Results of Self-evaluation in 2014

Topics	Understanding	Application <1	Average
PLUP	2.5	2.4	2.4
SPTPP-MP	2.8	2.6	2.7
SUFP-MP	2.8	2.7	2.8
CBSE-MP	2.9	2.8	2.9
IG/LD-MP	1.9	1.9	1.9
Facilitation skill	2.5	2.4	2.4
Project management	n.a.	2.5	2.5
Average	2.6	2.5	2.5

Remarks: Each topic was evaluated by following the 3-rating system: 3-satisfactory, 2-fair, and 1-not satisfactory.

satisfactory. Source: JICA Project Team (2014)

▶ The same seminars were held in January and February 2015. The counterparts again evaluated their understanding and confidence levels about all the key topics as follows.

Objectively Verifiable Indicators	Achievement (as of t	he end of Nove	mber 2015)		
			s of Self-evaluation	n in 2015	
	Topics	Understanding	Application <1	Average	
	PLUP	2.6	2.6	2.6	
	SPTPP-MP	3.0	3.0	3.0	
	SUFP with CBSE-MP	3.0	3.0	2.8	
	IG/LD-MP	2.1	N.A.	2.1	4
	Facilitation skill	2.8	N.A.	2.8	
	Project management	N.A. 2.9	2.6 2.5	2.6 2.7	4
	Average Remarks: Each topic was e				inir and 1 not
	satisfactory.	valuated by followin	g the 5-rating system.	3-satisfactory, 2-1	an, and 1-not
	"N.A." means "no	ot applocable."			
	Source: JICA Project Team (				
2d Annual work plans to support	Acheived:				
and promote CB-NRM in the	► The JICA Project	Team has assiste	ed the counternar	ts (NDF office	ers as well
Target Area are formulated by	as officers from the				
the concerned NDF and MAF	annual operation a				
district officers for the years	The plans were sul			as the District	Office for
2013- 2016.	their deliberation in				
	▶ The Team also he			udget plan on	CB-NRM
	and an annual budg	get plan on the sa	ame in 2013.		
	<ul><li>In 2015, NDFWM</li></ul>	approved a part	t of their plan and	d allocated sor	ne budgets
	for their monitorin				C
2e By June 2015, final draft of the	Acheived:	<u> </u>			
technical manuals on CB-NRM	► As described in the	e part of Project	Purpose the dra	ft technoal ma	nuale were
for the Target Area are	developed in Ap				
developed in consultation with	consultations with		·		
the relevant technical National	and MAF District				the results
Directorates of MAF	of field application				
	As a result, the JIC	CA Project Team	finalized the CB	-NRM technic	al manuals
	composed of three (3) volumes (i.e., Vol. 1: Seedling Production and Tree Planting, Vol. 2: Sustainable Upland Farming Promotion, Vol. 3: Income				
	Generating/Livelih				
	► Approved by Nat				nuela more
	further approved b	y General Direct	or or Forestry, M	Ar in October	2015.
2f By the Project end, the	Achieved:				
facilitating agencies in the	► The two (2) NGO	s that have been	n engaged in the	PLUP acitivit	es and the
Target Area involved in the	implementation of	f the micro prog	grams have subs	tantially devel	oped their
Project become able to assume	capacities for intro	duction and proi	notion of the CB-	NRM mechan	ism.
roles/responsibilities clarified in	► The performance				
the operational manual of	responsibilities de				
	CB-NRM mechani		Ciation manual	ioi establishin	ciit oi tiic
CB-NFM according to the			NGO		C.T.C.
criteria set by the Project.	▶ In fact, the main				
	coach two (2) loca		conduct of PLUP	ın two (2) vıll	ages in the
	Rumoco watershed	1.			
2g By the Project end, all the suco	Achieved:				
regulation committees of the	► As mentioned in the	he part of Outnu	it 1, the capacitie	s of village le	aders have
target sucos become able to	been enhanced su				
assume roles/responsibilities	periodical village				
				isseu now to s	SOTVE/SELLIE
clarified in the operational	issues using the vil			1 1	., ., ., .
manual of CB-NRM according	Likewise, it is jud				
to the criteria set by the Project.	defined in the oper		ised on the currer	nt performance	of village
	leaders in the targe	et villages.			
Source: HCA Project Teams (2015)		-			

#### d. Level of Achievement of Output 3

Source: JICA Project Teams (2015)

Objectively Verifiable Indicators	Achievement (as of the end of November 2015)
3a By June 2015, final draft of the	Acheived:
operational manual of	▶ As described in the part of Project Purpose, the first draft of the operational
CB-NRM for the Target Area is	manual of CB-NRM was submitted to NDF and NDSDAC. In February
developed in consultation with	2014, the manual was explained to the key staff of NDFWM and NDEDAC
NDSACD	as well as MAF District Offices in 12 districts in the workshop.
	▶ The draft manual was further introduced and explained to a wide range of
	stakeholders in consultation meetings held at the central and district levels in
	March and April 2015.
	▶ The operation manual was finalized based on the comments and suggestions
	given by the stakeholders and the results of a field trial in the Raumoco

Objectively Verifiable Indicators	Achievement (as of the end of November 2015)
	<ul> <li>watershed in July 2015.</li> <li>The finalized operation maunual was approved by National Director of NDFWM and further done by General Director of Forestry, MAF in October 2015.</li> </ul>
3b By June 2015, the draft policy recommendations to support and promote CB-NRM in the Target Area are developed in consultation with the relevant stakeholders	<ul> <li>Acheived:</li> <li>▶ As described above, the JICA Project Team prepared the first draft of the policy recommendations with the draft ministerial order for promotion of the CB-NRM mechanism in October 2014.</li> <li>▶ Both documents were introduced, explained, and discussed in the consultation meetings with key stakeholders at the central and district levels in March and April 2015.</li> <li>▶ In June and July 2015, the policy recommendations with the draft ministerial order were refined and finalized based on the comments obtained in the consultation meetings.</li> <li>▶ The finalized policy recommendations and the draft ministrial order were endorsed by General Director of Forestry, MAF for approval of Minister of MAF in July 2015.</li> </ul>

#### 7.2 Results of the Terminal Evaluation

As described in Chapter 6, the terminal evaluation of the Project was conducted by MAF and JICA in June and July 2015. The report on the terminal evaluation prepared by the MAF and JICA joint evaluation team in July 2015 is shown in **Appendix-7.1** stored in the CD attached to this report. The results of the evaluation of the Project based on the five evaluation criteria are summarized below.

Results of the Evaluation based on Five Evaluation Criteria

Criteria	Evaluation	Description
Relevance	High	The Overall Goal and the Project Purpose are consistent with the organizational needs of the NDF/MAF and the needs of the relevant personnel of NDF and District Directorates of MAF in the target area. This is because NDF is tasked to prepare the forestry policy and attend, implement, and supervise the policy, forest guards of MAF district offices are tasked to protect forests, forest products and forests from forest fires and raise public awareness of forest functions and extension workers are expected to promote the development of the agriculture and forestry, involve farmers in the development of the agriculture and forestry, etc. They are relevant with the needs of local people in the Target Area because the majority of people depends their livelihood either directly or indirectly on the natural resources.
		They are consistent with the Strategic Development Plan of Timor-Leste as well as Official Development Assistance (ODA) policies of Japan. Introduction of the CB-NRM mechanism is also proposed in the Forest Conservation Plan prepared under Japan's Grant Aide Project named "Forest Preservation Programme" (2011-2013). Japanese technical advantage has been confirmed as JICA jointly with MAF carried out the Development Study on Community-Based Integrated Watershed Management in the Target Area of the current Project, with implementation of pilot projects focusing on the participatory land use planning, tree planting, agricultural extension, and livelihood development, from 2005 to 2010.
		Selection of the target areas and sucos was appropriate because the areas in and around Comoro and Laclo watersheds were identified as the areas where forest degradation progressed despite the fact that Comoro watershed has a source of the domestic water for Dili City in its area while Lacro watershed is the catchment of one of the largest irrigation systems in the country. Meanwhile, Bemos and Noru sub-watersheds are located within Comoro and Lacro watersheds and prioritized in the short-term management plan under the Development Study. In the light of less developed transport infrastructure in Timor-Leste, identification of the target sucos from sucos less scattered in the sub-watersheds was also found adequate.
		Community-based natural resource management approach adopted by the Project is found appropriate since one of the key approaches proposed in the Forestry Sector Policy is community participation in protection of forests. The approach of the Project is characterized with various measures such as preparation of PLUP coupled with

Criteria	Evaluation	Description
· · · · · · · · · · · · · · · · · · ·		institutionalization of suco regulations by making use of the traditional customs, regular monitoring meetings at suco and aldeia levels, selection and implementation of various micro programs by the participants in the programs, which are expected to contribute to both forest conservation and livelihood development, technology transfer through FFS with a two-phased approach (FFS at main demonstration plots and sub-demonstration plots), and use of local NGOs by assigning local staff at the suco level.
Effectiveness	High	Judging from the achievement level of the Outputs, progress has been made in achieving the Project Purpose. Prospect of the achievement of the Project Purpose is high by the end of the Project cooperation period as an operational manual of CB-NRM, technical manuals on CB-NRM micro-program related techniques, and policy recommendations are scheduled to be finalized in July 2015 and approved and/or endorsed by DG of MAF towards the end of the Project cooperation period.  Outputs 1 to 3 are expected to contribute to achievement of the Project Purpose.
Efficiency	Moderate	Logical relation between Outputs and the Project Purpose is found adequate.  Progress has been made in producing Outputs, judging from the achievement level of its Indicators as well as the progress of the activities. In general, the Inputs have been appropriate in producing the Outputs in terms of timing, quality and quantity. Efficiency is considered moderate with the following specific remarks:
		Assignment of Experts and MAF Officials, and Activity Schedule: - Experts have been mobilized as planned. With relatively small team structure, the works have been efficiently carried out.
		- At the time of the terminal evaluation, 20 MAF officials at MAF, NDFWM and Aileu District are engaged in the Project, but their involvement in the Project is somehow limited.
		- The Project mobilized local NGOs mainly for implementation of the activities at the suco level. Their field staff stationed at the sucos in order to closely monitor and report the Project activities for prompt actions to be taken.
		- Preparation of manuals and policy recommendations was originally planned in the final year of the Project cooperation period. However, timing of preparation was changed from the final year to 2013 based on the recommendation at the mid-term review in order to incorporate consultation process with relevant personnel and organizations before finalization of them.
		- Noru watershed management council was established in September 2014, one year before the Project is completed. It might be more functional if it were established earlier. However, it was only in 2014 when the concerned personnel of the Project realized necessity of setting-up a platform for discussions over natural resource management including both target sucos and non-target sucos. Although it was one year before the Project completion, it could pave the ways to provide a tool to manage the entire sub-watershed by involving in the activities of the council all the sucos and relevant parties within the sub-watershed.
		Costs and Facility:  The amount of local operation costs per suco can be calculated at four (4) million JPY per year. The amount is considered relatively high. However, the amount could be justified when taking into consideration various points specific to the Project: pilot nature of the Project, extensive mobilization of local NGOs throughout the target sucos while hands-on support was not usually expected from the Government services, and high transport costs required for implementation of the Project activities in mountainous areas.
		- Office space for JICA experts and Project activities has been made available at NDF office. Local expenses to cover transportation costs, allowances for the Project officers, expenses for meetings and workshops are not covered due to budget constraints. Transportation costs for the Project officers, expenses required for meeting at villages, meeting expenses of Noru Watershed Management Council, etc. have been covered by the JICA side.
		- The Project made effective use of traditional customs in the implementation process of the Project activities. Revival and/or application of the traditional customs have contributed to reduction of costs while maintaining effectiveness of the operations.
		Use of the Outputs of the Previous Cooperation:  - The Project made use of outputs of the projects supported by Japan: JICA's Development Study on Community-Based Integrated Watershed Management in

Criteria	Evaluation	Description
		the Target Area of the current Project (2005-2010); and Japan's Grant Aid Project "Forest Preservation Programme" (2011-2013).
		Coordination with Other Organizations:  - The Project coordinated with other projects/organizations: "Seeds of Life", a project of MAF supported by DFAT and Australian Center for International Agriculture Research: and a Japanese NGO active in the Target Area (i.e. PARCIC); and RECOFTC (Center for People and Forests).
Impact	Some positive impacts are expected to be observed.	Impact at overall goal level:  It is still early to assess the likelihood of achievement of the Overall Goal. However, some positive impact of the Project is expected to be observed. Attention should be paid to the following points:
		- The suco leaders at the target sucos have observed reduction of the number of forest fires, illegal cutting and free grazing practices, which used to be caused by villagers within their sucos. This situation is likely to continue to prevail after completion of the Project because according to the interview conducted at the villagers during the terminal evaluation, the people in the sucos have found it economically beneficial to maintain CB-NRM mechanism.
		<ul> <li>Most of the registered beneficiaries continue to be engaged in the micro programs.</li> <li>According to the observations of villagers interviewed, their productivity has been surprisingly increased due to application of composts and construction of terraces.</li> </ul>
		- Nature of CB-NRM is also considered suitable to maintain impacts of the Project since both suco regulations and micro-program techniques are not likely to disappear after the termination of supports from the Project.
		- Noru Watershed Management Council was established in 2014 in order to form a platform where the target as well as the neighboring sucos could have dialogues and take necessary action for sustainable natural resource management at the sub-watershed level. It is also considered to provide an institutional framework to scale up the CB-NRM mechanism from the suco level to the sub-district or sub-watershed level so as to protect watershed environment of the concerned river basins using the CB-NRM mechanism. Thus, the Council could possibly contribute to implementation of CB-NRM activities at new sucos and reduction of illegal activities.
		Other impacts:  One of the women groups assisted with income generating activities has established a saving and credit system in a group by making use of part of the benefits from sales of their products. The group saving and credit system is able to help the members improve their access to financial resources.
		- Two (2) NGOs have gone through all the processes of and procedures for implementation of CB-NRM at the suco level. They have been able to give guidance to other NGOs who conducted PLUP in the watershed other than the target area.
		- No negative impacts have been observed.
Sustainability	Sustainability is yet to be ensured sufficiently although it is expected on some aspects.	<ul> <li>Policy and Institutional aspects:</li> <li>CB-NRM mechanism has been developed and promoted by the Project in line with the strategies of the Forest Sector Policy (2008), such as "Forest Protection", "Community Participation", and "Watershed Conservation". Under the policy objective set in the community and private participation in forestry development, it is considered that effective community participation is expected to provide a lasting basis for forestry sector development.</li> </ul>
		- CB-NRM mechanism has been developed by aligning it with the Forestry Sector Policy. Revising works of the said policy have been initiated by FAO. According to MAF, the policy relevant to the community participation in the forestry development is likely to remain unchanged.
		- There is no legal basis for NDFWM to promote CB-NRM so far. Under the Project, a ministerial order for promotion of the CB-NRM mechanism has been drafted, aiming at providing the guidelines and procedures for dissemination of the CB-NRM mechanism developed and demonstrated by the Project.
		- Many villagers expressed their willingness to observe suco regulations. As micro programs have generated some tangible benefits, villagers are willing to continue the micro programs, which support realization of the land use plans in the Project.
		Organizational aspects:

Criteria	Evaluation	Description
		<ul> <li>Organizational strategy for continuous implementation and expansion of the CB-NRM after completion of the Project is not clear at the time of the terminal evaluation. There is no specific organization or department, especially responsible for CB-NRM in NDFWM and NDFC at present. As one of the policy recommendations is to establish a new department for CB-NRM/CBFM in NDFWM, NDFWM/NDFC and MAF may take into account establishment of a new department.</li> </ul>
		<ul> <li>Financial aspects: <ul> <li>A budget constraint is a major concern for the sustainability of the Project. So far, costs for the Timorese Project Personnel for field visits and the meetings outside their respective District have been born by the Japanese side upon request by the Timorese side. In addition, during the Project cooperation period, costs for field activities, including lunch costs for villagers to participate in the trainings and meetings for participatory land use planning, suco regulation monitoring, etc. are supported by Japanese side because of the pilot nature of the activities.</li> </ul> </li> </ul>
		- One of the policy recommendations drafted under the Project recommends enactment of the Forest Management Decree as an essential legal basis for MAF/NDCFMW/NDFC and other key stakeholders to pursue CB-NRM/CBFM (Community-Based Forest Management) with budgetary allocations.
		- On the other hand, one of the two NGOs having been engaged in the Project supported sucos with additional funds from other sources in order to continue its support to target sucos.
		- There are donor agencies that show their interests in applying CB-NRM to their projects as well. Possibility to collaborate with donors and NGOs should be sought to ensure the financial sustainability of the Project.
		Technical aspects:  - Technical capacity of the Timorese project personnel has been enhanced. It is not certain, however, if the project personnel are able to maintain sufficient skills, knowledge and experiences after completion of the Project. The techniques transferred/introduced through the Project as well as the deliverables, including an operational manual of CB-NRM and technical manuals on micro-program related techniques, are expected to be relevant with the local needs and technical levels. Since the techniques are found economically viable and affordable based on observation of application of the techniques at their own field, likelihood of
Course Domont		continuous utilization and dissemination of techniques is expected.

Source: Report of the Joint Terminal Evaluation on the Project for Community Based Sustainable Naautral Reousrce Management in the Democratic Republic of Timor-Leste (2015)

Based on the results of the evaluation, the joint evaluation team made the following recommendations to the Project and MAF, respectively.

#### Recommendation to the Project and MAF from the joint evaluation team

a. Recommendations to the Project

a. Recommendations to the Project				
Recommendations	Description			
Preparation of user	The Project has drafted/ will draft outstanding manuals such as the technical manual, the			
friendly manuals	operational manual, and a manual on establishment and operation of watershed management			
	council. For the purpose of wide use of these manuals by Timor-Leste sides, the Project sl			
	develop the simple summaries of these manuals by the end of the Project. In addition these			
	manuals themselves shall be more usefulness for practitioners of CB-NRM by showing various			
	difficulties the Project has been faced and substantial solutions to overcome them, by the same			
	time.			
Development of	The project has developed the operation mechanism of CB-NRM at suco level in the six (6) target			
public relations	sucos successfully. For the purpose of public relations targeting peoples in the Target Area and			
materials	other watersheds, as well as stake holders such as related Timor-Leste government organizations,			
	donors, and NGOs, the Project should develop the public relations material of the mechanism			
	such as pamphlet by the end of the Project.			
Development of a	The Project has facilitated to establish the watershed management council of the Noru			
manual on	sub-watershed which was organized by the main members such as administrators of Remexio and			
establishment and	Liquideo sub-district offices, and leaders of twelve (12) sucos. For the purpose of expansion of			
operation of	the operation mechanism of CB-NRM at suco level in the other sub-watersheds, the Project			
watershed	should develop a manual on establishment and operation of watershed management council by			
management council	the end of the Project.			

Source: Report of the Joint Terminal Evaluation on the Project for Community Based Sustainable Naautral Reousrce Management in the Democratic Republic of Timor-Leste (2015)

#### b. Recommendations to MAF

Recommendations	Description			
Realization policy	The Project prepared the draft policy recommendations to support and promote CB-NRM in the			
recommendations	Target Area. These recommendations shall be realized in the next few years.			
Monitoring of	Forest guards of MAF conduct the monitoring of implementation of CB-NRM in the target sucos,			
CB-NRM practices	such as enforcement of the suco regulations and implementation of micro programs. To confirm			
in the target sucos	the sustainability of CB-NRM practices in the sucos and feed-back the lessons-learned in further			
	extension and development of the operational mechanism of CB-NRM, Timorese side should			
	continue the monitoring after the termination of the Project.			
Monitoring of the	The watershed management council of the Noru sub-watershed shall be continuously monitored			
watershed	after the termination of the Project and evaluate and analyze necessity and effectiveness of the			
management council	council with in the coming one (1) year, since it has not well been examined yet.			
of the Noru				
sub-watershed				
Utilization of	The provided equipment such as vehicles, plotter and PCs etc. by Japan's Grant Aid Project			
Japan's Grant Aid	"Forest Preservation Programme" (2011-2013) should be made available for appropriate			
Project "Forest Preservation	utilization in the Project activities.			
Programme"	TI D ' ( 11'1 14 OD NDM 1 ' C 11 II ' ( 4 1'66' 1)			
Improvement of the CB-NRM	The Project established the CB-NRM mechanism successfully. However, it seems rather difficult			
mechanism	to be applied by the Timor-Leste government, other donors, and NGOs, since full implementation			
mechanism	of it is time-consuming. For the purpose of rapid and wider extension of the CB-NRM			
	mechanism to other sub-watershed and watershed, composition and/or sequence of it should be improved with maintaining its significant effectiveness.			
Support of the Noru	The neibouring sucos of the target sucos are also beginning to interest in CB-NRM and requesting			
sub-watershed	MAF for support of seedlings. Timorese side should give the proper support to them to increase			
council	such motivations.			
Awareness raising	Timorese side should conduct raising awareness of residents in the Target Area, utilizing the			
of local residents in	public relation materials mentioned above, so that they may become to practice CB-NRM. The			
the Target Area	Project should give the proper indirect support to the working group.			
the range rinea	110ject should give the proper municot support to the working group.			

Source: Report of the Joint Terminal Evaluation on the Project for Community Based Sustainable Naautral Reousrce Management in the Democratic Republic of Timor-Leste (2015)

#### **Chapter 8 Lessons Learned**

# 8.1 Lessons Learned from Overall Project Management and Project Framework

Th joint terminal evaluation team organized by JICA and MAF also identified and extracted the following lessons learned through reviews of overall management and framework of the Project.

**Lessons on Overall Project Management and Project Framework** 

Lessons	Descriptions			
Utilization of	The Project well utilized NGOs as the facilitation agencies and imporved their capacity through			
NGOs for	the Project implementation, so that they can become to guide another NGOs to implement PLUI			
disseminating	practice. The impact has produced since these NGOs have such nature that radically share their			
impacts of the	experiences with other organizations through their own networks.			
Project	Utilization and, if it is necessary, capacity building of such NGOs should be considered in			
	designing the other project when dissemination of introduced technology is expected, examining			
	their own and networks' current and future financial, organizational, and technical capacities and			
	potentials, as well as necessity of active or passive intervention of the project.			
Utilization of	Timor-Leste was independent just a decade ago and its government institutions are still under			
NGOs in	developing. Though, in many other countries, sustainability of results of projects are secured by			
countries under	financial, technical, and organizational capacity of the government institutions and, thus, projects			
developing	are implemented with government counterparts expecting to strengthen their capacities.			
capacity of	However, while designing the other projects in the rather young and under constructing countries,			
government	utilization of the other agencies, such as NGOs in this project, should also considered as the			
institution	second best solution, for securing actual and short-term effectiveness of project operation, though			
	contribution to ensure long-term sustainability may be limitted.			
Importance of	Many of unique features of the Project, which highly contribute to produce Outcomes and realize			
preliminary	Project Purpose successfully, such as utilization of capable NGOs, integration of traditional			
studies	customs and systems, and application of cascade training methods, etc. were designed based on			
	the findings of the Development Study (see 2-1). Without utilization of the results of such			
	preliminary studies, the Project would have spent a lot of times for finding the better			
	implementation ways and the outputs would be limited.			
	For designing future products, it is important to identify the best implementation ways exactly			
	suitable for each target areas, through carefully examining results of preliminary implemented			
	studies in the specific areas, as long as they are available.			
Selection of	Two NGOs were employed under the Project. Both of them are national NGO, but the first one			
NGOs that have	started as a local representative of an international NGO and later became independent as a			
financial capacity	national NGO. Through the selection process of NGOs, it was considered that this NGO had			
	capacity to raise funds and relatively higher financial capacity, which could possibly lead to			
	sustainable assistance to target groups during and even after completion of the Project.			
	As one of the Project activities, the Project, in partnership with the first one, supported a group of			
	farmers to establish a demonstration plot and assisted the group with upland farming techniques			
	including compost-makings. Although the Project was ready to support the group members with			
	animal pens upon request from the group, they had a policy not to provide farmers with domestic			
	animals. Having known the Project policy, this NGO decided to provide a group of farmers with			
	cows, which would be rotated among the members. The main purpose of providing the group with			
	animals was to let the group collect cow dungs and exercise compost-makings out of them. In			
	case of the second NGO, whose financial capacity was considered not as strong as that of the first			
	one, this type of complementary assistance has not been observed.			
	When capacity of NGOs is evaluated for employment under a project, assessment of their			
	financial capacity, including their fund-raising abilities, should be included in the evaluation			
	criteria. Employment of financially capable NGOs could possibly lead to enhancement of			
	synergetic effects at a farmer level during and after the project period.			
Establishment of a	The Project supported to establish the Watershed Management Council of the Noru sub-watershed			
platform for	as a platform where the relevant sucos can work on CB-NRM for sustainable watershed			
watershed	management. The non-target sucos in the Council have already began to actively working together			
management	with the target sucos.			
including	To accelerate dissemination of the concept of natural resource management to neighboring			
non-target villages	villagers of the target village of projects, establishment of such platform would be considered in			
of the project	the other projects.			
Enhancement of	In the target areas of the Project, a traditional ceremony concerning ritual prohibitions and			
efficiency of the	sanctions used to be practiced, but were no longer being exercised at the time when the Project			

Lessons	Descriptions			
Project activities	started. The Project revived and incorporated the ceremony into one of the steps, which would			
by making use of	lead to preparation of PLUP for natural resource management. The Project helped villagers			
traditional	institutionalize the ceremony by codifying regulations with local resident's knowledge, which had			
customs and	been prepared and agreed at the suco meetings, and by facilitating processes of monitoring and			
practices	reporting illegal activities for villagers. It was found that the institutionalization of the local rules			
1	with the traditional ceremony would be effective in orienting rural communities toward the			
	sustainable forests and natural resources management.			
	The Project also paid close attention to reciprocal labor exchanges, which have been traditionally			
	practiced in the target areas of the Project. Such traditions are used when laborious farming			
	techniques are applied and implemented at individual farms.			
	To enhance efficiency of projects, use of the traditional customs and practices should be			
	considered in the other projects.			
Effectiveness of	In the implementation of micro program such as reforestation programme, the Project used the			
utilization of local	local material such as bamboo, palm leaves, woods for construction of nursery in the			
material	demonstration plots. At the result, local residents were easy to start the individual plot such as			
	nursery using the local material.			
	Utilization of local material shall be considered in designing effective extension of the			
	demonstration activities to individuals.			
Existence of staffs	In the implementation of micro program in the target suco, NGO staff stayed in the suco for			
of facilitating	setting the demonstration plots such as terrace farming and supported villager for implementation			
agencies in	of activities. Smooth monitoring for practices of villagers and timely supports within the suco			
remote target	produced the excellent outputs, since existence of such staffs can encourage the participants of the			
villages	Project.			
	Advantage of allocation of such close focal points in project sites should be well considered when			
	designing implementation system of future projects.			

Source: Report of the Joint Terminal Evaluation on the Project for Community Based Sustainable Naautral Reousrce Management in the Democratic Republic of Timor-Leste (2015)

#### 8.2 Lessons Learned from the Project Activities

On the other hand, the JICA Project Team extracted lessons from the conducts of the project activitis as shown below.

#### **Lessons Learns from the Project Activities**

#### a. Under Output 1

Lessons	Descriptions
Allocation of adequate time	Introduction of the village regulations is a time-consuming task as it is a process of making a village system and building the capacity of village leaders. Hence, there is a need to allocate adequate time for this process, especially for introduction and institutionalization of the village regultions. The same can be said to agricultural and forestry extension, as it takes times for communities to accept and digest new techniques. Many of them do not apply techniques until they feel sure that such techniques could benefit them.
Removal of hindrances	It is, however, true that communitues may not necessarily be able to change their conventional practices even though they realize the effectiveness of new techniques due to exiting limitations and difficultie, such as a shortage of laborforce and a lack of farm tools. It is, therefore, improtant to iron out such limitations that would hinder communities from applying techniques simultaneously with provision of hands-on training on techniques in the field.
Deployment of local staff	* .
Involvement of a wide range of communities	In order to make the CB-NRM mechanism effective for a wide range of social layers in sucos, it is important to give chances to take part in the project activities as many communities in sucos as possible. The more communities have benefit from the project, the more communities follow the CB-NRM mechanism.
Securing of opportunities for training among communities	It has not been easy to gather many communities at one place (such as a demonstration plot) on a regular basis, as the majority of communities live far from the center of suco or aldeia in general. Hence, it is necessary to organize FFSs at least at the aldel level so that many communities could participate in the micro program activities.

Lessons	Descriptions
Utilization of the traditional collective working system for agricultural extension	It is difficult to expect that communities would apply agricultural techniques automatically after hands-on training courses, even though they appreciate the effectiveness of the techniques that they learn from training. Integration of the traditional collective working system into the extension method is one of the possible options to facilitate the application of techniques among communities.
Introduction of a process approach	The key principle of CB-NRM is not to apply the pre-set framework to the local setting but to develop a framework/mechanism through a series of interactions with local communities. A certain level of flexibility was required to develop effective CB-NRM frameworks/mechanisms functional under the respective local settings of the target sucos.

#### b. Under Output 2

D. Officer Output 2				
Lessons	Descriptions			
Set-up of the	It is important to set realistic targets of the capacity development plan for the			
realistic targets	government officers based on the current level of the capacities of the respec			
	target groups as well as the timeframes given for the activities.			
Security of	There was a need to clear the hurdles which hindered the counterparts from taking part			
necessary support	in the capacity development activities to ensure their participation in the training			
	activities. Due consideration should be given to allocation of allowance/per diem and			
	security of transportation means. (even between MAF office in Comoro and NDF			
	office in Caicoli) for trainees.			
Importance of	Since CBNRM or community forestry was still new to most of the officers in			
showing actual	NDFWM/NDNC, it was quite difficult for them to have a clear picture of			
results in the	CBNRM/community forestry without observing the results made in the field. Under			
field	such circumstances, seminar-type training activities were not necessarily effective in			
	enhancing the capacity of MAF officers. In fact, the interest in the CBNRM activities			
	among the counterparts had been increased as they observed actual results of the			
	CB-NRM mechanism in the field.			
Sharing of	It is essential to share a certain responsibilities for implementation of the project with			
responsibility	the counterparts / MAF officers so that they would foster a sense of ownership of and			
with government	responsibility for the project. However, tasks should be given to the MAF officers in a			
officials in a	phased manner over the course of the project based on the levels of interest and			
phased manner	understanding.			

#### c. Under Output 3

Lessons	Descriptions
Ensuring of	Involvement of a wide range of NDF officers in the process of making the policy
involvement of	recommendations and the draft ministerial order contributed to enhancement of a sense
NDF officers in	of ownership of the documents among NDF officers.
the process of	
policy making	
and continuous	
discussions	
Institutional	The policy documents as well as manuals have become rather practical and
development	convinciable as they were prepared on the basis of results and experiences in the field.
based on field	Development of a model in the field also helped MAF/NDF and other stakeholders
experiences	have better understanding of CB-NRM. It would have been difficult for them to have
	meaningful/fruitful discussions if there had been no actual model in the field as the
	concept had been still new to the majority of MAF/NDF officers.

Source: JICA Project Team (2015)

#### **Chapter 9 Recommendations**

#### 9.1 Recommendations given by the Terminal Evaluation Team

As described in Chapter 7, the following recommendations made by the joint terminal evaluation teams to ensure the sustainability of the project effectiveness as well as achieve the overall goal of the Project.

**Recommendations made by the Terminal Evaluation Teams** 

Accommondations made by the Formmar Evaluation Teams				
Recommendations	Description			
Realization policy	The Project prepared the draft policy recommendations to support and promote CB-NRM in the			
recommendations	Target Area. These recommendations shall be realized in the next few years.			
Monitoring of	Forest guards of MAF conduct the monitoring of implementation of CB-NRM in the target sucos,			
CB-NRM practices	such as enforcement of the suco regulations and implementation of micro programs. To confirm			
in the target sucos	the sustainability of CB-NRM practices in the sucos and feed-back the lessons-learned in further			
	extension and development of the operational mechanism of CB-NRM, Timorese side should			
	continue the monitoring after the termination of the Project.			
Monitoring of the	The watershed management council of the Noru sub-watershed shall be continuously monitored			
watershed	after the termination of the Project and evaluate and analyze necessity and effectiveness of the			
management council	council with in the coming one (1) year, since it has not well been examined yet.			
of the Noru				
sub-watershed				
Utilization of	The provided equipment such as vehicles, plotter and PCs etc. by Japan's Grant Aid Project			
Japan's Grant Aid	"Forest Preservation Programme" (2011-2013) should be made available for appropriate			
Project "Forest	utilization in the Project activities.			
Preservation				
Programme"				
Improvement of the	The Project established the CB-NRM mechanism successfully. However, it seems rather difficult			
CB-NRM	to be applied by the Timor-Leste government, other donors, and NGOs, since full implementation			
mechanism	of it is time-consuming. For the purpose of rapid and wider extension of the CB-NRM			
	mechanism to other sub-watershed and watershed, composition and/or sequence of it should be			
	improved with maintaining its significant effectiveness.			
Support of the Noru	The neibouring sucos of the target sucos are also beginning to interest in CB-NRM and requesting			
sub-watershed	MAF for support of seedlings. Timorese side should give the proper support to them to increase			
council	such motivations.			
Awareness raising	Timorese side should conduct raising awareness of residents in the Target Area, utilizing the			
of local residents in	public relation materials mentioned above, so that they may become to practice CB-NRM.he			
the Target Area	Project should give the proper indirect support to the working group.			

Source: Report of the Joint Terminal Evaluation on the Project for Community Based Sustainable Naautral Reousrce Management in the Democratic Republic of Timor-Leste (2015)

#### 9.2 Recommendations given by the JICA Project Team

Besides, the JICA Project Team further proposes the following actions and interventions that MAF should take into account for achievement of the overall goal of the Project as well as expansion of CB-NRM in an effective and manner.

Recommendations proposed by the JICA Project Team

Tree-mineration proposed by the electrical			
Recommendations	Description		
Development of key players in	Development of human resources is an urgent issue to be addressed to lay a		
expansion of CB-NRM	foundation for expansion of the CB-NRM mechanism. A lack of operational		
	actors who can replicate the process of introduction of the CB-NRM mechanism		
	in the field is one of the crucial hindrances to expansion of CB-NRM at this		
	moment. The focus of capacity development should be put on not only the public		
	sector, such as NDFWM and MAF, but also the private sector, such as NGOs.		
	Both sides will play important but different roles. NDFWM and MAF will be the		
	main implementing agency of the Government who will be responsible for		
	planning and arrangement of a program of CB-NRM, while NGOs will be the		
	main facilitators who will work with local communities in the field.		
	It is, therefore, important to provide more opportunities for both of them to learn		
	the process in the field.		
Finalization and approval of the new	As recommended by the terminal evaluation team, it is necessary to realize the		
ministerial order for promotion of	policy recommendations for further expansion of CB-NRM. Among others, the		

Recommendations	Description	
the CB-NRM mechanism	ministerial order attached to the policy recommendations should be finalized and	
	approved by MAF as an official document. The ministerial order would enable	
	NDFWM to get support from MAF and collaborate with other key stakeholders,	
	such as MAF development partners and NGOs, for promotion of the CB-NRM	
	mechnism.	
Encouragement of MAF	MAF might not be able to approve the new ministerial order until the GoTL	
development partners to integrate the	officilly enacts the forestry law, which is still under discussions in the ministry.	
CB-NRM mechanim into their	Hence, it is hard to expect that NDFWM could have sufficient support from MAF	
programs/projects.	for expansion of CB-NRM for the time being. In order to promote CB-NRM, it	
	is, therefore, important to encourage the MAF development partners including	
	NGOs to integrate the process of introduction of the CB-NRM mechanism into	
	activities of their projects/programs.	
Utilization of the Project materials	The materials developed by the Project, such as the operation manual, technical	
	manuals, quick references, and CB-NRM pamphlet should be utilized by a wide	
	range of stakeholders working in the forestry and agriculture sectors in	
	Timor-Leste. These documents are effective in not only protecting forest	
	resources from illegal exploitation but also improving agricultural production in	
	hilly and mountanous areas in Timor-Leste.	

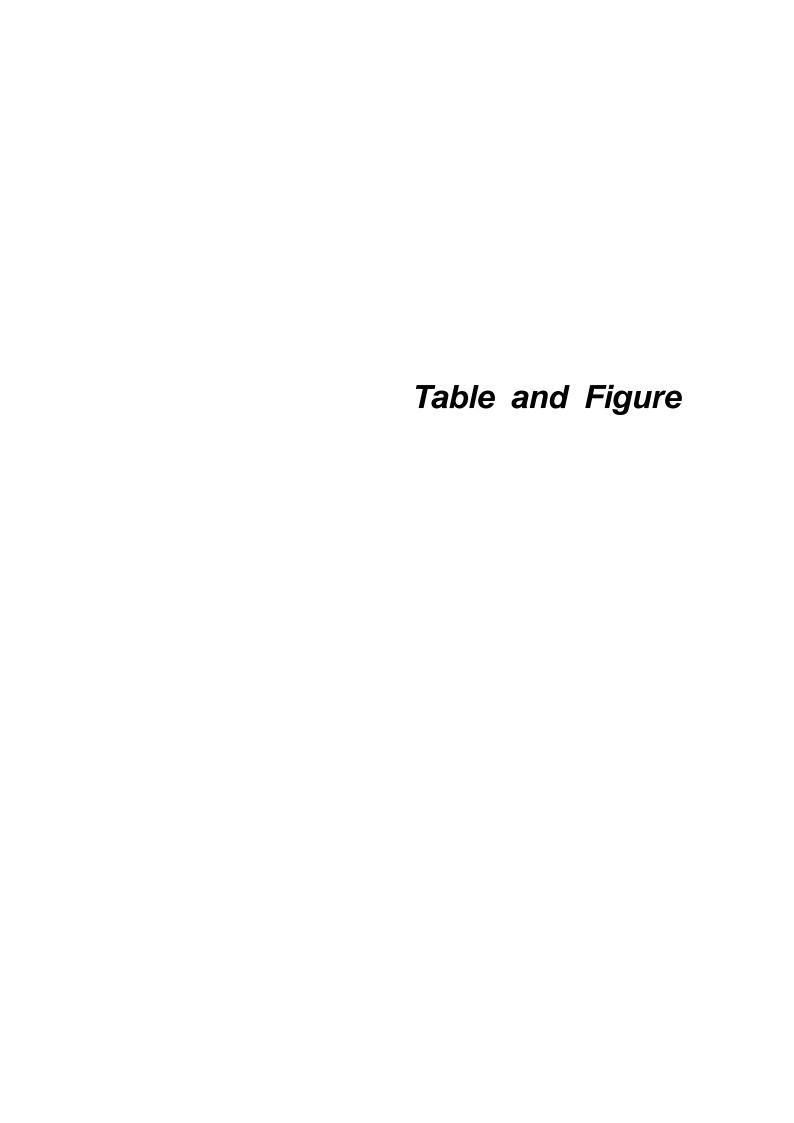


Table 1 The Latest Project Design Matrix (PDM) (Ver. 3)

<u>Project Title:</u> The Project for Community-Based Sustainable Natural Resource Management
<u>Implementing Agency:</u> National Directorate of Forestry (NDF). Ministry of Agriculture and Fisheries (MAF)

Target Area: Areas in and around the Comoro and Laclo Watersheds

<u>Duration</u>: Five (5) years from the date of the first dispatch of expert(s)

Project Site: Six selected sucos in the Target Area (\*1)

PDM ver. 3 (approved on Jul 23, 2015)

Relevant personnel of National Directorate of Forestry (NDF) and District Directorates of MAF in the target area, and the local residents in the Project sites Target Group: Super Goal:

Watershed management is introduced in the major river systems in Timor-Leste

Super Goal: Watersned management is introduced in the major river systems in 1 imor-Leste				
Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions	
Overall Goal Community-based sustainable natural resource management (CB-NRM) is practiced in the Target Area.	<ul> <li>a. CB-NRM activities following the operational mechanism developed by the Project are implemented in at least 5 new <i>sucos</i> in the target area by the end of 2018.</li> <li>b. In all of the new <i>sucos</i>, cases of forest fires, illegal cutting, and illegal grazing are found to be decreased compared with the time without the regulations according to the observation of the respective <i>suco</i> regulation committees</li> <li>c. In all of 6 <i>sucos</i> of the Project sites, cases of forest fires, illegal cutting, and illegal grazing are not increased compared with the time of the Project completion according to the observation of the respective <i>suco</i> regulation committees.</li> <li>d In all of 6 <i>sucos</i> of the Project sites, more than 70 % of the registered beneficiaries at the end of 2018 engage in the <u>micro program</u> activities, such as sustainable upland farming and reforestation.</li> </ul>	a. Annual reports of NDF and district directorates of MAF b&c Record of the suco regulation committee meetings     d Monitoring report kept by MAF	* There is no drastic change in the direction of the policies of the government related to the natural resource management.	
Project Purpose An operational mechanism (*2) of CB-NRM at suco level is developed.	<ul> <li>a. By the Project end, an operational manual of CB-NRM for the Target Area, which clarifies the procedures for implementation of CB-NRM at village level as well as roles/responsibilities of the stakeholders, is approved by Director General (DG) of MAF</li> <li>b By the Project end, technical manuals on CB-NRM micro program related techniques for the Target Area are approved by DG of MAF</li> <li>c. By the Project end, the draft policy recommendations to support and promote CB-NRM in the Target Area are endorsed by DG of MAF for approval by Secretary of State for Forest and Nature Conservation</li> <li>d. By the Project end, on average, more than 75 % (three-quarter) of the Project Personnel of NDF and MAF reach at least the second best level of five (5)-level evaluation rating set by the Project for the items identified in the respective capacity development plans, which are in line with their roles/responsibilities in CB-NRM</li> </ul>	<ul> <li>a. Date of approval of the manual</li> <li>b. Date of approval of the manual</li> <li>c. Date of endorsement of the recommendations</li> <li>d Results of assessment made by the Project</li> </ul>	* NDF makes efforts to further expand CB-NRM through the operational mechanism developed by the Project. * The Implementing agencies and relevant stakeholders continue to support the CB-NRM in the target area.	
Outputs  1. Land use plans are agreed upon and implemented by local residents in accordance with relevant suco regulations.	<ul> <li>1a By September 2012, in all target sucos, participatory land use plans (PLUPs) with the suco regulations are agreed by the respective suco regulation ceremonies</li> <li>1b At the Project end, in all target sucos where the suco regulations are introduced, annual number of forest fires, illegal cutting, and crop damage made by free grazing are found to be decreased according to the observation of the respective suco regulation committees</li> <li>1c At the Project end, in all target sucos, more than 80% of the registered beneficiaries of reforestation, sloping agriculture/agroforestry, and alternative livelihood activities each under the micro programs in the second-rotation of training consider that the concerned activity has contributed to their livelihood improvement.</li> </ul>	<ul> <li>1a Project Records</li> <li>1b Progress report of each micro program</li> <li>1c Record of the <i>suco</i> regulation committee meetings</li> <li>1d Results of evaluation of each micro program</li> </ul>	* The trained personnel continue working in the Project sites.  * There is no drastic change in the organizational structures of MAF district directorates.	
The staff of the Implementing agency and relevant stakeholders (*3) are trained to support CB-NRM.	<ul> <li>2a All of the topics related to CB-NRM, identified through the training needs assessment, are covered by the training, including technical &amp; planning seminars, and on-the-job training.</li> <li>2b On average, the technical seminar participants give 4 points on a five-point scale about "understandability of materials", "clearness of explanation", and "relevancy of topic" of the concerned seminars</li> <li>2c At the Project end, on average, the Project Personnel of NDF and MAF evaluate their understanding about the training topics as at least middle on three-point scale.</li> <li>2d Annual work plans to support and promote CB-NRM in the Target Area are formulated by the concerned NDF and MAF district officers for the years 2013- 2016.</li> <li>2e By June 2015, final draft of the technical manuals on CB-NRM for the Target Area are developed in consultation with the relevant technical National Directorates of MAF</li> <li>2f By the Project end, the facilitating agencies in the Target Area involved in the Project</li> </ul>	2a-Training records 2b Results of post-training evaluation 2c Results of self-assessment at feedback seminar 2d The plans submitted to NDF 2e Date on the final draft submitted to NDF 2f Results of assessment made		

	become able to assume roles/responsibilities clarified in the operational manual of CB-NRM according to the criteria set by the Project.  2g By the Project end, all the <i>suco</i> regulation committees of the target <i>suco</i> s become able to assume roles/responsibilities clarified in the operational manual of CB-NRM according to the criteria set by the Project.	by the Project 2g ditto	
Effective processes with roles of stakeholders to support CB-NRM are identified.	developed in consultation with NDSACD	3a Date on the final draft submitted to NDF 3b Date of submission of the draft to NDF	

	Activities		Inputs	Important Assumptions
<ul> <li>1-2 Conduct participate regulations</li> <li>1-4 Facilitate local resimal (*4) prioritized in lir</li> <li>1-5 Monitor and evaluations</li> <li>1-6 Organize field semulating target sucos and test sucos</li> <li>1.7 Establish the water platform where the watershed manage</li> <li>2-1 Gather and compile the situation of the</li> <li>2-2 Plan and conduct Implementing ager</li> <li>2-3 Organize planning</li> <li>2-4 Organize feedback</li> <li>2-5 Prepare technical residence of stakeholder</li> <li>CB-NRM, including</li> <li>3-2 Develop draft polic</li> </ul>	retings in the Project sites.  For village profiling in the Project sites.  For village planning with formulation of relevant suco  For village profiling in the Project sites in the land use plans.  For village profiling among the each nical dissemination to local residents in the neighboring in the project sites.  For village profiling in the Project sites in the neighboring among the each nical dissemination to local residents in the neighboring in the project sites.  For village profiling in the Project site	Timor-Leste Side  - Project Director - Project Manager - Project personnel - Supporting staff - Project Office at NDF - Operational costs	Japanese Side  - Dispatch of Experts a. Chief Advisor b. Administrative Coordinator c. Experts in the relevant fields such	* There is no unpredicted conflict among the local residents in the Project sites that hampers the implementation of the Project activities

#### Notes

- \*1: Project sites are the sucos (the lowest local government units) where the activities for the Output 1 are carried out.
- \*2: Operational mechanism is embodied in the endorsed and practiced—manual on the processes with roles of stakeholders to support CB-NRM, technical manuals on CB-NRM, and the policy recommendations. Capacity of the staff of NDF and District MAF to support and promote CB-NRM is integral part of the mechanism.
- \*3: Personnel of the relevant national directorate-of MAF, district office of MAF in the target area and other facilitating agencies, such as NGOs working in the target area.
- \*4: The micro programs are the specific activities undertaken by the local residents to support realization of the land use plans in the Project sites, such as reforestation, sloping agriculture/agro-forestry, alternative livelihood and so forth.

#### Table 2 The Latest Plan of Operations (PO) (Ver. 3.1)

Project Title: Project for Community-Based Sustainable Natural Resource Management

Overall Goal: Community-based sustainable natural resource management (CB-NRM) is practiced in the target area.

Project Purpose: An operational mechanism of CB-NRM at *suco* level is developed. Project Period: Five (5) years from the date of the first dispatch of expert(s)

Project Period: Five (5) years from the date				044				-						 -			1			
Activities	Expected Outputs (Milestones)	10	FFY2	011 FY20	111	TFY20	Y2012	1	rfy20	)13 FY2013		FFY20	14 FY201	FY201 JFY2		Responsibility	Human	Input Equipment	Budget	Remarks
	(Milestolies)	Q1				Q2 Q		Q1								Responsibility	resources	Equipment	Duaget	
Preparatory Activities	1																			
0-1 Conduct kick off meeting / introductory seminar on the Project.	CP's understanding of the project (Minutes of meeting)															JE	JP: CA TL: Director of NDF, MAF CP	JP: - TL: -	JP: Operational cost TL: -	
0-2 Review and revision of the draft PDM and	Revised PDM and PO (ditto)															MAF CP, JE	JP: CA, Co-CP	JP: -	JP: Operational cost	
0-3 Identify the roles of the facilitating agencies.	Short-list of NGOs (ditto)															MAF CP, JE	TL: MAF CP (NDF)  JP: CA, Co-CA	TL: - JP: - TL: -	TL: - JP: Operational cost TL: -	
0-4 Select the facilitating agencies to assist field	NGOs selected (ditto)															MAF CP, JE	TL: MAF CP (NDF)  JP: CA, Co-CA TL: MAF CP (NDF)	JP: - TL: -	JP: Operational cost	
0-5 Prepare the terms of references of the acilitating agencies.	Terms of reference for the NGOs (ditto)															MAF CP, JE, FA	JP: CA, Co-CA TL: MAF CP (NDF)	JP: - TL: -	JP: Operational cost	
0-6 Select the Project sites.	the Project sites (Results of selection)															MAF CP, JE	JP: CA, Co-CA, PC, Local PC TL: MAF CP (NDF)	JP: Vehicles TL: Transportation means	JP: Operational cost TL: Operational cost	
Output 1: Land use plans are agreed upon and		te in a	ccord	ance	with r	alevent cr	ico rem	ulatio	me								IL. MAI CI (NDI)	TL. Transportation ficalis	TE. Operational cost	
1-1 Organize initial consultative meetings in	premence by total residen	III d	Cord	C	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	vant St	- Itg	unit10	21.50						1					
the Project sites.						<u> </u>					<u>                                      </u>			 <b> </b>						
1-1-1 Arrange suco meeting/workshop in each Project site.	Date of meetings (ditto)																JP: Local PC TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Operational cost TL: Operational cost	
1-1-2 Explain general purpose and planned activities of the Project	Local leaders' understanding of the project (Materials for meetings)															MAF CP, FA, JE	JP: CA, Co-CA, PC, Local PC TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Operational cost TL: Operational cost	
I-1-3 Confirm the willingness of the suco leaders as well as other community members to participate in the project	Local leaders' consent (Memo of meetings)																JP: CA, Co-CA, PC, Local PC TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Operational cost TL: Operational cost	
1-2 Conduct participatory village profiling in																				
the Project sites.											ļļ.			 ļļ.					ID D i ii l ii ii	
1-2-1 Arrange <i>suco</i> workshop in each Project site.	Schedule of workshops (ditto)																JP: FA (NGOs) TL: -	JP: - TL: -	JP: Project implementation cost	
1-2-2 Facilitate the workshop to grasp the current conditions of natural resources and land use.	Results of discussions (Resulsts of PRA)																JP: FA (NGOs) TL: -	JP: - TL: -	JP: Project implementation cost TL: -	
1-2-3 Identify problems and possible measures to be taken by the local residents.	Issues and necessaru action of sustainable NRM (Results of PRA)															MAF CP, FA, JE	JP: FA (NGOs), CA, Co-CA, UFT/LD Ex, A/R Ex TL:MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
1-2-4 Assist the <i>suco</i> leaders to build consensus among the suco residents on development of the land use plans and relevant <i>suco</i> regulations.	Local leaders' consent (Results of PRA)																JP: FA (NGOs), CA, Co-CA, UFT/LD Ex, A/R Ex TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
1-3 Conduct participatory land use planning with formulation of relevant suco regulations.																				
1-3-1 Assist the suco leaders to prepare the land use plans and to draft the <i>suco</i> regulations with the deliberation.	Draft future land use plan and suco regulations (ditto)																JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF & District)	JP: Vehicles, Aerial photos TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
I-3-2 Facilitate the suco leaders to obtain endorsement on the draft land use plans and suco regulations by suco councils, traditional leaders, other local communities and local government	Finalized future land use plan and suco regulations (ditto)															MAF CP, FA, JE	JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
daninistration	Tara bandu ceremony (Memos of cereonies)																JP: FA (NGOs), Local PC TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
-3-4 Distribute materials and signboards on the and use plans and suco regulations in and round the Project sites.	Singborads (ditto)																JP: FA (NGOs), Local PC TL: -	JP: Materials for singboard TL: -	JP: Project implementation cost, Operational cost TL: -	
1-3-5 Assist the suco leaders in implementing the suco regulations and solving issues using the regulations.	Reduction of forest fires (Memos of meetings)																JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	

	Expected Outputs	TFY201		TFY2012	1	FFY2013	3	TFY20	14	T	FY2015			Input		Remarks
Activities	(Milestones)		2011	JFY20			2013		Y2014		JFY201:		Human	Equipment	Budget	
1-4 Facilitate local residents in the Project sites to implement the micro programs prioritized in line with the land use plans.		Q1 Q2 Q3	Q4 Q1	Q2 Q3 Q	04 Q1	Q2 Q3	Q4 Q	1 Q2 Q	3 Q4	Q1	Q2 Q3		resources			
1-4-1 Organize <i>suco</i> workshops to identify and prioritize the micro programs.	List of priority micro projects (ditto)												JP: FA (NGOs), CA, Co-CA, UFT/LD Ex, A/R Ex TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
1-4-2 Organize interest groups for implementation of the micro programs.	Beneficiaries' groups (Member lists)									<u></u>		MAF CP, FA, JE	TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
1-4-3 Develop work plans of the micro programs in a participatory manner.	Work plans (ditto)												JP: FA (NGOs), CA, Co-CA, UFT/LD Ex, A/R Ex TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
1-4-4 Conduct training for the group members on topics relevant to the respective <u>micro programs.</u>	Training courses (Number of participants)												JP: FA (NGOs), CA, Co-CA, UFT/LD Ex, A/R Ex TL: MAF CP (NDF, other NDs, and District)	JP: Vehicles, Training materials TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
1-5 Monitor and evaluate CB-NRM in the Project sites.																
1-5-1 Conduct regular visits to monitor the progress of the micro programs.	Monitoring reports (ditto)												JP: CA, Co-CA, UFT/LD Ex, A/R Ex, PC, Local PC TL: MAF CP (NDF, other NDs, and District)	JP: Vehicles TL: Transportation means	JP: Operational cost TL: Operational cost	
1-5-2 Monitor the progress in CB-NRM.	Monitoring reports (ditto)											MAF CP. FA. JE	JP: CA, Co-CA, UFT/LD Ex, A/R Ex, PC, Local PC TL: MAF CP (NDF, other NDs, and District)	JP: Vehicles TL: Transportation means	JP: Operational cost TL: Operational cost	
1-5-3 Conduct participatory evaluation on each micro program among the group members.	Results of evaluation (ditto)												JP: FA (NGOs), CA, Co-CA, UFT/LD Ex, A/R Ex, PC, Local PC TL: MAF CP (NDF, other NDs, and District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
1-5-4 Facilitate technical staff of district directorates of MAF to prepare plans to support the CB-NRM and micro programs with proper estimation of budget and human resource requirements.	Annual work plans (ditto)												JP: CA, Co-CA, Local PC TL: MAF CP (NDF, other NDs, and District)	JP: Vehicles TL: Transportation means	JP: Operational cost TL: Operational cost	
1-6 Organize project information sharing seminars and/or workshops for information sharing among the target sucos and technical dissemintion to local residents in the possibly action of the possibly action																
1-6-1 Discuss and formulate a plan of the field project information sharing seminars.	Plan of the field seminar (ditto)												JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF, other NDs, and District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
1-6-2 Assist the <i>suco</i> leaders and group leaders to prepare the presentation.	Presentation materials (ditto)											MAF CP, FA, JE	JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF, other NDs, and District)	JP: Vehicles TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
1-6-3 Organize project information sharing seminars among the target sucos	Field seminars (Memos of seminars)												JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF, other NDs, and District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	
1-6-4 Conduct field seminars in the Project sites by inviting local residents of the neighboring sucos.	Field seminars (Memos of seminars)												JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF, other NDs, and District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Project implementation cost, Operational cost TL: Operational cost	

	Expected Outputs		TFY20	11	Г	FY20	012		TFY2	013		TF	Y2014	4	T	FY201:				Input		Remarks
Activities	(Milestones)	10		FY2011			FY2012				2013	1 0		2014		JFY20		Responsibility	Human	Equipment	Budget	
1-7 Establish the watershed management		Q1	Q2 (	Q3   Q4	Q1 (	Q2   (	Q3 Q4	Q1	Q2	Q3	Q4 Q	1 Q	2 Q3	Q4	Q1	Q2 (	Q3		resources			
council of the Noru watershed as a platform where the relevant sucos can work on CB- NRM for sustainable watershed management.																						
1-7-1 Consultation with the relevant stakeholders	Memo of the meetings																		JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF and District)	JP: Vehicles TL: Transportation means	JP: Meeting cost, Operational cost TL: Operational cost	
1-7-2 Finalize the membership and by-laws of the watershed management council in consultation with the leaders of sucos concerned with the Noru watershed	Resolution of the watershed management council																ı	MAF CP, FA, JE	JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF and District)	JP: Vehicles TL: Transportation means	JP: Meeting cost, Operational cost TL: Operational cost	
1-7-3 Hold a regular meeting of the watershed management council and discuss issues on natural resource management in the watershed periodically.	Minutes of the meetings																		JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF and District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Meeting cost, Operational cost TL: Operational cost	
1-7-4 Assist the watershed management council in the preparation of the watershed management plan of the Noru watershed.	Watershed management plan of the Noru watershed	f																	JP: FA (NGOs), CA, Co-CA, Local PC TL: MAF CP (NDF and District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Meeting cost, Operational cost TL: Operational cost	
Output 2: The staff of the Implementing agence	y and relevant stakeholders ar	e enh	anced	to supp	ort CB	B-NRN	М.													Ī		
2-1 Gather and compile useful CB-NRM practices and technologies applicable to the situation of the target area.															<u></u>							
2-1-1 Collect and review the information on successful practices and technologies on CB-NRM.	List of documents (ditto)																		JP: CA, Co-CA, UFT/LD Ex, A/R Ex TL: MAF CP (NDF)	TL: -	JP: Operational cost TL: -	
2-1-2 Select the technologies and practices applicable to the Project sites.	Recommended technologies and practices (ditto)																	AAF CP, JE	JP: CA, Co-CA, UFT/LD Ex, A/R Ex TL: MAF CP (NDF) JP: CA, Co-CA, UFT/LD Ex, A/R	JP: - TL: -	JP: Operational cost TL: -	
2-1-3 Compile the resource materials.	Resouce matrials (ditto)							<u></u>											Ex TL: MAF CP (NDF)	JP: - TL: -	JP: Operational cost TL: -	
2-1-4 Translate the resource materials into Tetun language.	Resource materials in tetun (ditto)																		JP: Local PC TL: MAF CP (NDF)	JP: - TL: -	JP: Operational cost TL: -	
2-2 Plan and conduct the training on CB- NRM for the technical staff of the Implementing agency and relevant stakeholders.																						
2-2-1 Identify the target personnel of the capacity development and training.	List of counterparts (ditto)																		JP: CA, Local PC TL: MAF CP (NDF)	JP: - TL: -	JP: Operational cost TL: -	
2-2-2 Conduct training needs assessment (TNA).	Results of TNA (ditto)														ļ				JP: Co-CA, Local PC TL: MAF CP (NDF & District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Operational cost TL: Operational cost	
2-2-3 Formulate training programs for technical staff of NDF and relevant stakeholders.	Trainig plan (ditto)																N		JP: CA, Co-CA, Local PC TL: MAF CP (NDF & District)	JP: - TL: -	JP: Operational cost TL: -	
2-2-4 Conduct in-house training courses on selected practices and technologies on CB-NRM using the resource materials developed through activity 2-1.	Training courses (Number of participants)																		JP: CA, Co-CA, UFT/LD Ex, A/R Ex, PC, Local PC TL: MAF CP (NDF & District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Operational cost TL: Operational cost	
2-2-5 Conduct the on-the-job training (OJT) in line with the CB-NRM activities in the Project sites.	On-the Job Training (Monitoring reports)																		JP: CA, Co-CA, UFT/LD Ex, A/R Ex, PC, Local PC TL: MAF CP (NDF & District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Operational cost TL: Operational cost	
2-3 Organize feedback seminars on CB-NRM.			T							T								NDF CP, DD CP, E				
2-3-1 Organize feedback seminars at district directorates of MAF to review the experiences in the Project activities.	Results of discussion (Memo of seminars)																		JP: CA, Co-CA, PC, Local PC TL: MAF CP (NDF & District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Operational cost TL: Operational cost	
2-3-2 Facilitate the technical staff to formulate work plans to support CB-NRM in their areas of jurisdiction.	Work plans (ditto)																		JP: CA, Co-CA, PC, Local PC TL: MAF CP (NDF & District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Operational cost TL: Operational cost	
2-3-3 Integrate the work plans into annual plans of district directorates of MAF.	Annual work plans (ditto)																		JP: CA, Co-CA, PC, Local PC TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Operational cost TL: Operational cost	

	Expected Outputs		TFY2		TFY		TFY		TF	Y2014		FY201:				Input		Remarks
Activities	(Milestones)	10 Q1		FY20: O3 O		Q3 Q		2013   Q4   Q	01 0		2014 Q4	O2 O	015	Responsibility	Human resources	Equipment	Budget	
2-4 Organize planning seminars on CB-NRM.													]	NDF CP, DD CP, IE				
2-4-1 Arrange planning seminars at NDF	Discussions in the seminars (Memos of seminars)														JP: CA, Co-CA, PC, Local PC TL: MAF CP (NDF & District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Operational cost TL: Operational cost	
2-4-2 Facilitate the NDF Staff to formulate future plans to support CB-NRM with allocation of human and financial resources.	Work plans (ditto)														JP: CA, Co-CA, PC, Local PC TL: MAF CP (NDF & District)	JP: Vehicles, Powerpoint TL: Transportation means	JP: Operational cost TL: Operational cost	
2-4-3 Integrate the plans to support CB-NRM into annual action plans of NDF	Annual action plans (ditto)														JP: CA, Co-CA, PC, Local PC TL: MAF CP (NDF & District)	JP: Vehicles TL: Transportation means	JP: Operational cost TL: Operational cost	
2-5 Prepare technical manuals on CB-NRM.																		
2-5-1 Review the monitoring and progress reports on CB-NRM activities implemented in the Project sites	Lessons learned (ditto)														JP: CA, Co-CA, UFT/LD Ex, A/R Ex, PC, Local PC TL: MAF CP (NDF & District)	JP: - TL: -	JP: Operational cost TL: Operational cost	
2-5-2 Review the results of participatory evaluation of CB-NRM activities implemented in the Project sites.	Results of evaluation (Evaluation report)														JP: CA, Co-CA, UFT/LD Ex, A/R Ex, PC, Local PC TI: MAE CP (NDE & District)	TL: -	JP: Operational cost TL: Operational cost	
2-5-3 Compile the technical manuals on CB- NRM with lessons learned from the Project activities.	Draft technical manuals (ditto)												]		JP: CA, Co-CA, UFT/LD Ex, A/R Ex, PC, Local PC TL: MAF CP (NDF)	JP: - TL: -	JP: Operational cost TL: Operational cost	
2-5-4 Prepare the first draft of technical manuals	Draft technical manuals (ditto)														JP: CA, Co-CA, UFT/LD Ex, A/R Ex, PC, Local PC TL: MAF CP (NDF)	JР: - TL: -	JP: Operational cost TL: Operational cost	
2-5-3 Finalized the technical manuals on CB-NRM in consultation with NDSDAC	Technical manuals (ditto)														JP: Local PC TL: MAF CP (NDF)	JP: - TL: -	JP: Operational cost TL: Operational cost	
Output 3: Effective processes with roles of stal 3-1 Prepare an operational manual on the	keholders to support CB-NRM	l are i	dentif	ied.											<u> </u>			
processes to support CB-NRM with roles of stakeholders, relecting the results of monitoring and evaluation of CB-NRM, including the <u>micro programs</u> implemented in the Project sites.																		
3-1-1 Prepare draft procedures for participatory land use planning and selection of <u>micro</u>	Draft procedures for PLUP and selection of micro projects (ditto)											 			JP: CA, Co-CA, Local PC TL: NDF Staff	JP: - TL: -	JP: Operational cost TL: -	
3-1-2 Put the draft procedures to trial in the trget villages.	Village regulations and Memos of the monitorig meetings (ditto)												]	MAF CP, JE	JP: CA, Co-CA, Local PC TL: NDF Staff	JP: - TL: -	JP: Operational cost TL: -	
3-1-3 Prepare the first draft of an operational manual of CB-NRM relecting the results of monitoring and evaluation of CB-NRM	1st Draft of Operationn Manual (ditto)				 										JP: CA, Co-CA, Local PC TL: NDF Staff	JP: - TL: -	JP: Operational cost TL: -	
3-1-4 Finalization of a draft operation manual of CB-NRM for the target area in consultation with the MAF Dstrict Offices concerned and NDSDAC	Draft Operation Manual														JP: CA, Co-CA, Local PC TL: NDF Staff	JP: - TL: -	JP: Operational cost TL: -	
3-2 Develop draft policy recommendations																		
3-2-1 Assess the current situation of the forest sector and necessary measures for promotion of CB-NRM.	Annual report of the working team (2012/2013)														JP: CA, Co-CA, Local PC TL: NDF Staff	JP: - TL: -	JP: Operational cost TL: -	
3-2-2 Review the results of monitoring and evaluation of CB-NRM in the Project sites	Annual report of the working team (2013/2014)												,	MAF CP, JE	JP: CA, Co-CA, Local PC TL: NDF Staff	JP: - TL: -	JP: Operational cost TL: -	
3-2-3 Draft policy recommendations to suppor promotion of CB-NRM in the target area based on the review of monitoring and evaluation of CB NRM in the Project sites in consultation with relevant organizations	Draft policy recommendations														JP: CA, Co-CA, Local PC TL: NDF Staff	JP: - TL: -	JP: Operational cost TL: -	
3-3-4 Submit the draft policy recommendations to NDF for endorsement	Draft policy recommendations (ditto)														JP: CA, Co-CA, Local PC TL: NDF Staff	JP: - TL: -	JP: Operational cost TL: -	

	Expected Outputs		TFY	2011		TF	Y2012		T	FY20:	13			Y2014			FY2015				Input		Remarks
Activities	(Milestones)	10		JFY2			JFY				Y201				2014				esponsibility	Human	Equipment	Budget	
		Q1	Q2	Q3	Q4 Q	01 Q2	Q3	Q4 (	Q1 (	22 Q	3 Q	4 Q	1 Q2	Q3	Q4	Q1	Q2 Q3	3		resources			
3-3 Organize a workshop to present the recommendations to relevant institutions and stakeholders.																							
3-3-1 Make a presentation of the achievement of the Project and the draft policy recommendations to the national directorates of MAF, donors, NGOs and other relevant stakeholders.	Minutes of the meeting (ditto)																	MA		JP: CA, Co-CA, Local PC TL: NDF Staff	JP: - TL: -	JP: Operational cost TL: -	
	Revised draft policy recommendations (ditto)																			JP: CA, Co-CA, Local PC TL: NDF Staff	JP: Powerpoint TL: -	JP: Operational cost TL: -	
3-4-3 Submit the draft policy recommendations to MAF for endorsement for further approval of Secretary of State for Forest and Nature Conservation	Endorsed draft policy recommendations (ditto)																			JP: CA, Co-CA, Local PC TL: NDF Staff	JP: Powerpoint TL: -	JP: Operational cost TL: -	

MAF: Ministry of Agriculture and Fisheries
District: MAF District Office
CP: Counterpart personnel
JE: Japanese Expert(s)
CA: Chief Advisor, Co-CA: Co-Chief Advisor, UFT/LD Ex: Upland Farming Technologies/Livelihood Development Expert, A/R Ex: Afforestation/Reforestation Expert, PC: Project Coodinator, Local PC: Local Project Coordinator

# Table 3 Work Plan and Accomplishments made by the Project Team Project Title: Project for Community-Based Sustainable Natural Resource Management Overall Goal: Community-based sustainable natural resource management (CB-NRM) is practiced in the target area. Project Purpose: An operational mechanism of CB-NRM at *suco* level is developed. Project Period: Five (5) years from the date of the first dispatch of expert(s)

			TFY	7201			TFY	2012			TFY	2013			TFY				rfy2		
Acti	vities	10			Y2011				2012			-	2013				<b>201</b> 4			Y2015	Responsibility
Preparatory Activities		Q1	Q2	Q3	3   Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	. Q2	Q3	
				Π	T	Π	Ι	Ι	<u> </u>			Ι	l	<u> </u>	<u> </u>	Π	T	T	T	П	1
0-1 Conduct kick off meeting / introductory seminar on the Project.	Planned																				JE
seminar on the Project.	Actual																				
0-2 Review and revision of the draft PDM and	Planned																				MAF CP, JE
PO	Actual					ļ	ļ	ļ	<b></b>	ļ		ļ	ļ	<del> </del>		ļ	- <del> </del>	ł		··········	MAI CF, JE
	Planned																				
0-3 Identify the roles of the facilitating agencies.			<b></b>	.ļ		ļ	ļ	ļ	<u> </u>	ļ		ļ	ļ	ļ	ļ	ļ		ļ			MAF CP, JE
	Actual				+	-															
0-4 Select the facilitating agencies to assist field	Planned																				MAF CP, JE
activities in the Project sites.	Actual																	ļ			
0-5 Prepare the terms of references of the	Planned																				
facilitating agencies.	Actual					ļ	ļ	ļ	<del></del>	<b> </b>		ļ	ļ	ļ		ļ		ł		·	MAF CP, JE, FA
																		<u> </u>			
0-6 Select the Project sites	Planned			<u> </u>	<u>.</u>	<u> </u>	<u></u>	<u></u>	<u> </u>	<u> </u>		<u></u>	ļ	<u> </u>	ļ	<u></u>		<u> </u>		<u></u>	MAF CP, JE
	Actual		┖			L															
Output 1: Land use plans are agreed upon and 1-1 Organize initial consultative meetings in th		with	relev	ant :	suco	regul	ation	ıs.								ı		1			I
				$\vdash$													1	<del>                                     </del>	+	1	1
1-1-1 Arrange suco meeting/workshop in each Project site.	Planned		<b></b>	ļ	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<b>.</b>	ļ	ļ	ļ	ļ	ļ	ļ	<u> </u>	<b> </b>		<u> </u>	
Ligot site.	Actual			1		<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u> </u>	<u> </u>			1	┞	1	1	
1-1-2 Explain general purpose and planned	Planned																				MAF CP, FA, JE
activities of the Project	1 mined																				MAI CI, IA, JI
*	Actual			· · · · · · ·														<u> </u>			
1-1-3 Confirm the willingness of the suco leaders	Planned																				
as well as other community members to			<b></b>			ļ	ļ	ļ	ļ	ļ		ļ	ļ	ļ	ļ	ļ	. <del></del>	ļ			}
participate in the project  1-2 Conduct participatory village profiling in t	Actual he Project sites.		-															<del>                                     </del>			
2 2 conduct participator, mange proming in a	no Troject sitesi																				
1-2-1 Arrange suco workshop in each Project	Planned																				
site.	Actual					<b></b>			ļ	ļ			ļ	ļ	ļ			<b></b> .			ł
1.2.2 Fee Plant de marchele au communication	Actual																				
1-2-2 Facilitate the workshop to grasp the current conditions of natural resources and land	Planned																				
use.				ļ		ļ	ļ	ļ	ļ	ļ		ļ	ļ	ļ		ļ	ļ	ļ			
	Actual																				MAF CP, FA, JE
1-2-3 Identify problems and possible measures to	Planned																				
be taken by the local residents.									<u></u>									<u> </u>			
	Actual																				
1-2-4 Assist the suco leaders to build consensus	Planned																				
among the suco residents on development of the	Fiamed																				
land use plans and relevant suco regulations.	Actual								*******				*********					ļ			•
1-3 Conduct participatory land use planning w	ith formulation of relevant suco regulations.																				
1-3-1 Assist the suco leaders to prepare the land	Planned																				
use plans and to draft the suco regulations with	riamicu																				
due deliberation.	Actual																	ļ			
1-3-2 Facilitate the suco leaders to obtain																					
endorsement on the draft land use plans and suco	Planned																				
regulations by suco councils, traditional leaders, other local communities and local government	Actual				<b></b>				<b></b>	·····			·····	<b></b>	·····			<b>†</b>		·	1
		1																t	1		1
1-3-3 Organize <i>Tara Bandu</i> ceremonies in the	Planned													1							MAF CP, FA, JE
Project sites.	Actual		<b></b>		<b></b>	ļ	ļ		<b></b>	<b>ļ</b>	ļ	ļ	ļ	<b>ļ</b> .	<b></b>	ļ	4	<b>ļ</b> .	4		ł
1048: 7	Actual	+	$\vdash$									$\vdash$	$\vdash$	$\vdash$			$\vdash$	┢	+	1	1
1-3-4 Distribute materials and signboards on the land use plans and <i>suco</i> regulations in and	Planned																				
around the Project sites.			<u> </u>	<u> </u>							ļ	ļ	ļ	ļ	ļ	ļ	<u> </u>	<b></b>		<u> </u>	
around the Froject Sites.	Actual	-	1	_																	-
1-3-5 Assist the suco leaders in implementing the	Planned																				
suco regulations and solving issues using the	1 mined																				
regulations.	Actual							<b>i</b> mmuu	nimmir mi	den en en en	den serene	den errorren	<b>********</b>	do morro			-denomen		********		1

			TFY	2011			TFY	2012	2		TFY	2013	3		TFY	Y201	14			Y20		
Acti	vities	10			2011				2012				2013				Y20				2015	Responsibility
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q.	3 (	24 (	Q1 (	Q2	Q3	
1-4 Facilitate local residents in the Project sites	to implement the micro programs prioritized																					
1-4-1 Organize <i>suco</i> workshops to identify and prioritize the micro programs.	Planned																					
	Actual													·····								
1-4-2 Organize interest groups for implementation of the micro programs.	Planned																					
imprementation of the fine optograms.	Actual	ļ		·····	······				·····					†		·						MAF CP. FA. JE
1-4-3 Develop work plans of the micro programs in a participatory manner.	Planned																					MAF CP, FA, JE
	Actual																					
1-4-4 Conduct training for the group members on topics relevant to the respective <u>micro programs</u> .	Planned																					
	Actual																					
1-5 Monitor and evaluate CB-NRM in the Pro	ject sites.																					
1-5-1 Conduct regular visits to monitor the progress of the micro programs.	Planned																					
	Actual																					
1-5-2 Monitor the progress in CB-NRM.	Planned																					
	Actual	ļ			·····															■.		MAF CP, FA, JE
1-5-3 Conduct participatory evaluation on each micro program among the group members.	Planned																					WAP CF, PA, JE
	Actual										l											
1-5-4 Facilitate technical staff of district directorates of MAF to prepare plans to support the CB-NRM and micro programs with proper	Planned																					
estimation of budget and human resource	Actual																					
requirements.	nars and/or workshops for information sharing																					
1-6-1 Discuss and formulate a plan of the field project information sharing seminars.	Planned																					
	Actual				[				Ţ	Ţ												
1-6-2 Assist the <i>suco</i> leaders and group leaders to prepare the presentation.	Planned																					
	Actual	1	·····	<b></b>	} 	 	ļ	ļ	<b>†</b>	<b>†</b>	†·····					1						MAF CP, FA, JE
1-6-3 Organize project information sharing seminars among the target sucos	Planned																					
	Actual	ļ								[						ļ						
1-6-4 Conduct field seminars in the Project sites by inviting local residents of the neighboring sucos.	Planned																					
	Actual																					

			TFY	<b>7201</b> 1	1		TFY	72012	2		TFY	2013			TFY	201	4		TFY2		
Acti	vities	10			2011				2012			JFY					7201			2015	Responsibility
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	l Q2	Q3	
1-7 Establish the watershed management coun	cil of the Noru watershed as a platform where	<u> </u>																			
1-7-1 Consultation with the relevant stakeholders	Planned																				
1-7-1 Constitution with the relevant stakeholders		ļ	ļ	<u></u>	ļ		ļ			ļ				ļ		ļ	ļ	<b></b> .			
1705 1 1 1 1 1 61	Actual	-												-				+			
1-7-2 Finalize the membership and by-laws of the	Dlomod																				
watershed management council in consultation with the leaders of sucos concerned with the	Planned																				
	Actual	†	······	·-}	·		ļ	·	·····	<del> </del>				<del> </del>				†			MAF CP, FA, JE
Noru watershed 1-7-3 Hold a regular meeting of the watershed																					. , , , ,
management council and discuss issues on natural	Planned																				
resource management in the watershed		<u> </u>	ļ	ļ	ļ		ļ	ļ	ļ	<b>1</b>		ļ		<b>1</b>	ļ						
periodically.	Actual																				
1-7-4 Assist the watershed management council	Planned																				
in the preparation of the watershed management	Planned																				
plan of the Noru watershed.	Actual	ļ		·}····	<del> </del>			·	<del> </del>	<del> </del>				<del> </del>		<del> </del>	1				
Output 2: The staff of the Implementing agenc		ppor	t CB	-NRN	vI.		<u> </u>				<u> </u>	<u> </u>							1111		
2-1 Gather and compile useful CB-NRM practi																					
situation of the target area.																					
2-1-1 Collect and review the information on																					
successful practices and technologies on CB-	Planned																				
NRM.							ļ	ļ	ļ	<b>ļ</b>				ļ		ļ		4			
111111	Actual						<u> </u>											1			
2-1-2 Select the technologies and practices	Planned																				
applicable to the Project sites.	rianned																				MAF CP, JE
applicable to the Project sites.	Actual	†							<b></b>	<del> </del>				<del> </del>	······	ļ		†			,
	1 Actual																				
2-1-3 Compile the resource materials.	Planned																				
2-1-3 Compile the resource materials.		ļ						<b></b>	ļ	<b></b>				ļ		ļ		<b></b>			
	Actual																				
2-1-4 Translate the resource materials into Tetun	Planned																				
language.	Actual	<b>†</b>		<b>.</b>	<b>.</b>				·····	<del> </del>				<del> </del>		ļ	·	- <del> </del>			
2-2 Plan and conduct the training on CB-NRM																					
	Planned																				
development and training.			<b></b>	.ļ	ļ		ļ	<b></b>	ļ	<b></b>				ļ		ļ		<b></b> .			
	Actual			-																	
	Planned																				
2-2-2 Halao assementu treinamentu (TNA).			<b></b>					·	<b>+</b>	<b></b>				<del> </del>		<b></b> .		+			
	Actual																				
2225	71		-																		
2-2-3 Formulate training programs for technical staff of NDF and relevant stakeholders.	Planned	<u> </u>		<u>.</u>	<u> </u>		<u> </u>	ļ	ļ	<u> </u>		ļ	,	ļ	ļ	ļ		<u> </u>			MAF CP, FA, JE
	Actual																				
2-2-4 Conduct in-house training courses on	TNI I																				
selected practices and technologies on CB-NRM	Planned																				
using the resource materials developed through activity 2-1.	Actual	ļ								<b>†</b>			**********	<del> </del>		<b></b>		+			
	1.00000			1																	
2-2-5 Conduct the on-the-job training (OJT) in line with the CB-NRM activities in the Project	Planned																				
sites.		ļ													***********						
	Actual																				
2-3 Organize feedback seminars on CB-NRM. 2-3-1 Organize feedback seminars at district		-																			
directorates of MAF to review the experiences in	Planned																				
the Project activities.	Actual	†	†····	·}	†			·	ļ						·····	†					
2-3-2 Facilitate the technical staff to formulate																					NDF CP, DD CP,
work plans to support CB-NRM in their areas of	Planned	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u></u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>			ļ	<u> </u>	<u> </u>				JE
jurisdiction.	Actual	ļ															ļ		<b>I</b>		
2-3-3 Integrate the work plans into annual plans	Planned																				
of district directorates of MAF.		<del> </del>	<del></del>		<del> </del>		ļ	<del> </del>	<b></b>		ļ	ļ			ļ	<del> </del>		-	<b></b>		
	Actual	1	1	1	1		Ħ	1	1		1				1	1	1		##		

			TFY	2011		TFY				TFY	2013			TFY	2014			/2015		D 11 11 11
Actr	vities	10 Q1	Ω2	JFY2011 Q3 Q4				2012		Ω2		2013		02		2014		FY20		Responsibility
2-4 Organize planning seminars on CB-NRM.		Ųı	Ų2	Q3   Q4	ŲI	Q2	ŲS	Ų÷	ŲI	Q2	ŲS	Ų÷	Ųı	Q2	ŲS	Ų÷	Q1 (	2	ŲS	
2414	Planned																			
2-4-1 Arrange planning seminars at NDF	Actual	ļ	ļ	ļ		<b></b>				ļ						ļ. <b></b> .				
2-4-2 Facilitate the NDF Staff to formulate future																			-	NDF CP, DD CP,
plans to support CB-NRM with allocation of	Planned	<u></u>	<u>]</u>			<b></b>		<u> </u>			<u></u>	ļ				<u> </u>				ΠE
human and financial resources	Actual																			
2-4-3 Integrate the plans to support CB-NRM	Planned																			
into annual action plans of NDF	Actual		<u> </u>	ļ									<b></b>				····			
2-5 Prepare technical manuals on CB-NRM.	1101444																			
2-5-1 Review the monitoring and progress																				
reports on CB-NRM activities implemented in	Planned																			
the Project sites	Actual	· <del> </del>	<b>∤</b>	}	ļ															
2.5.2 Design the second of a seciol of the second	Tietuai																			
2-5-2 Review the results of participatory evaluation of CB-NRM activities implemented in	Planned																			
the Project sites.		ļ	ļ	ļļ		ļ				ļ		ļ		ļ	ļ	ļ				
	Actual	_																-	_	
2-5-3 Compile the technical manuals on CB-	Planned																		]	MAF CP, JE
NRM with lessons learned from the Project activities.		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<b></b>	<u> </u>											]	
activities.	Actual																			
	DI 1																			
2-5-4 Prepare the first draft of technical manuals	Planned																			
	Actual	·····		†																
2-5-5 Finalized the technical manuals on CB-	Planned																			
NRM in consultation with NDSDAC			<u> </u>	ļ		ļ		ļ					<b></b>							
Output 3: Effective processes with roles of stake	Actual scholders to support CR-NRM are identified				<u> </u>								<u> </u>							
3-1 Prepare an operational manual on the proc																			1	
3-1-1 Prepare draft procedures for participatory																				
land use planning and selection of micro	Planned																			
programs	Actual									ļ			ļ			ļ	ļ			
	Actual																	+	-	
3-1-2 Put the draft procedures to trial in the trget	Planned																			
villages.			***************************************				ennennere		*******		********	9011100FF		ļ		ļ	ļ			MAF CP, JE
2120 151155	Actual																	_		WIAI CI, JE
3-1-3 Prepare the first draft of an operational manual of CB-NRM relecting the results of	Planned																			
monitoring and evaluation of CB-NRM	Actual	·····	¦	<u> </u>																
3-1-4 Finalization of a draft operation manual of	Planned																			
CB-NRM for the target area in consultation with	1 mined	ļ	ļ	<u> </u>	ļ			<b></b>					ļ							
the MAF Dstrict Offices concerned and NDSDAC	Actual																			
3-2 Develop draft policy recommendations																				
3-2-1 Assess the current situation of the forest	P																		_	
sector and necessary measures for promotion of	Planned	<u></u>											<u> </u>			<u> </u>	<u> </u>			
CB-NRM.	Actual																			
3-2-2 Review the results of monitoring and	Planned																			
evaluation of CB-NRM in the Project sites	Actual	·	<del> </del>	<del>}</del>	ļ	·		<b></b>												
3-2-3 Draft policy recommendations to suppor																				MAF CP, JE
promotion of CB-NRM in the target area based	Planned	<u> </u>	<u> </u>	<u></u>	<u> </u>	ļ		ļ				ļ								
on the review of monitoring and evaluation of CB-																				
NRM in the Project sites in consultation with	Actual																			
relevant organizations																			_	
3-3-4 Submit the draft policy recommendations to NDF for endorsement	Planned																			
	Actual																			
3-3 Organize a workshop to present the recomm	mendations to relevant institutions and				<u> </u>															
3-3-1 Make a presentation of the achievement of	Planned																			
the Project and the draft policy recommendations to the national directorates of MAF, donors,			<del> </del>	<del> </del>									<b>†</b>	• • • • • • • • • • • • • • • • • • • •		ļ	l			
NGOs and other relevant stakeholders.	Actual																		J	
3-3-2 Revise the draft policy recommendations	DI I				<del>                                     </del>								<del>                                     </del>							MAF CP, JE
with feedback and comments obtained from the	Planned	<u> </u>	ļ	<u>                                       </u>	<u> </u>	<u>                                     </u>		<u> </u>	ļ		ļ	ļ	<u> </u>	ļ	ļ	<u> </u>	ļ <u>I</u>			VIAI CF, JE
workshop.	Actual	L											L							
3-4-3 Submit the draft policy recommendations	Planned																			
to MAF for endorsement for further approval of Secretary of State for Forest and Nature		<del> </del>	ł	ł	ļ	ļ		ļ	ļ 		<b></b>	<b></b>	<del> </del>	<del> </del>	ł	ļ	<b> </b>			
Conservation	Actual																			
CORSCI VALIOR					1	1				1	1	1	1	1	1					

MAF: Ministry of Agriculture and Fisheries NDF: National Directorate for Forestry District: MAF District Office CP: Counterpart personnel

JE: Japanese Expert(s) FA: Facilitating Agencies

CA: Chief Advisor, Co-CA: Co-Chief Advisor, UFT/LD Ex: Upland Farming Technologies/Livelihood Development Expert, A/R Ex: Afforestation/Reforestation Expert, PC: Project Coordinator, Local PC: Local Project Coordinator

