

APPENDIX I: Project Design Matrix (PDM)

Project title: Project of Integrated Approach Development in order to Promote Environment Restoration and Rural Development in Morarano Chrome

Project site (Target Communes): 1) Initial Target Communes: Morarano Chrome, Andrebakely Sud and Amapsikely, 2) Extended Target Communes : Andilanatoby and Ranomainty Communes, Alatora Mangoro Region

Targeted group: Ministry of Environment, Ecology and Forests (MEEF); Ministry of Agriculture and Rural Development (MADR): Morarano Chrome, Andrebakely Sud and Ampasikely Communes; and population of the target communes (Approximately 55 thousand people)

Project duration: From 10 February 2012 to 9 February 2017 (5 years)

Version 3 (22 July 2014)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal Number of communes which promote rural development and soil conservation in integrated manner increases in degraded upstream areas.	Projects and/or organizations utilizing the Model established by the Project are newly implemented in X (*1) communes.	Interviews with relevant authorities	
Project Purpose Model to promote integrated rural development and soil conservation in degraded upstream areas is established.	a: At the end of the Project, upland tree planting is practiced by 60% of landowner households in upland in at least 75% of fokontany in the Initial Target Communes. b: At the end of the Project, 75% of Lavaka treated during the training are maintained by the local population in the Initial Target Communes c: At the end of the Project, 35% of total households continuously practice at least one of the new activities (*2) which contribute to improvement of living conditions and rural development in the Initial Target Communes d: By the end of the Project, a manual for model user is approved by MEEF and MADR e: By the end of the Project, at least one program proposal for implementation of the Model in X (*1) communes in degraded upstream areas is accepted by MEEF and MADR for further action.	a. Review of final impact report b. Ditto c. Ditto d. Date of approval e. Date of acceptance	- Natural disaster, political and economic crisis that affects implementation of the model do not occur
Outputs: 1. Plans to promote rural development and soil conservation are developed in the Initial Target Communes	1a. Baseline Survey Report is produced 1b. Local Resource Survey Report is produced 1c. Land use map is produced for each Fokontany 1d. Initial training plan on specific issues is produced	1a. Baseline Survey Report 1b. Local Resource Survey Report 1c. Land use map for each Fokontany 1d. Training plan	- No major bushfires occur. - Localized torrential rain does not occur frequently.
2. Activities which contribute to rural development and soil conservation conducted by local population are promoted in the Initial Target Communes.	2a. 75% of the landowner households in upland that participated in the training plant trees in upland. 2b. By the end of the Project, at least one person is certified as Lavaka Control Trainer by DREEF and DRDR for each fokontany where Lavakas are located. 2c. 50% of the households that participated in the training put into practice at least one of the new activities promoted by the Project which contribute to improvement of living conditions and rural development (i.e. improved stove (Kamado), lychee production, and fish farming).	2a. Impact Report 2b. Certificate 2c. Impact Report	- Prolonged droughts do not occur. - Severe damages caused by diseases and harmful insects do not occur.
3. Activities which contribute to rural development and soil conservation conducted by local population are monitored and evaluated, and improvement measures are indicated in the Target Communes	3a. Monitoring and evaluation report is produced every quarter 3b. Initial training plan on specific issues is revised at least once a year 3c. Extension structure and methods of training and monitoring of activities conducted by local population are revised through trial and error	3a. Monitoring and evaluation reports 3b. Monitoring and evaluation reports 3c. Minutes of the meetings of PMU and JCC	
4. Registration of land ownership becomes possible in the Initial Target Communes	4a. After establishment of Morarano Chrome GF, at least 130 land certificates are issued every year in the Initial Target Communes where GFs are operational.	4a. Archives of GF in each Initial Target Communes	
5. Model proposed by the Project is acknowledged to be effective by officials responsible for administration of degraded upstream areas outside the Target Communes	5a. Cost and benefits of the Model proposed by the Project is presented at the final workshop on the Model in the last quarter of the Project. 5b. At least 80% of the participants in the final workshop acknowledge effectiveness of the proposed Model according to the criteria developed by the PMU in collaboration with MEEF and MADR. 5c. By July 2016, draft of the manual for Model users is submitted to MEEF and MADR for approval 5d. By July 2016, at least one program proposal for implementation of the Model in degraded upstream area outside the Target Communes, MEEF and MADR for acceptance	5a. Presentation material 5b. Survey during workshop 5c. Date of draft submission 5d. Date of draft submission	

Narrative Summary	Inputs	
<p>1.1 Develop Project Implementation Guidelines.</p> <p>1.2 Recruit Area Managers (Commune Animators) i.e. personnel who will facilitate communication between local people and Project Management Unit for the Initial Target Communes</p> <p>1.3 Conduct training for Area Managers</p> <p>1.4 Conduct baseline survey in the Initial Target Communes</p> <p>1.5 Conduct local resource survey in the Initial Target Communes</p> <p>1.6 Develop land use map for each fokontany in the Initial Target Communes</p> <p>1.7 Develop training plan on specific issues</p> <p>1.8 Compile training plan for each Initial Target commune and provide information so that plan can be reflected in commune development plan</p> <p>2.1 Conduct training and follow-up on activities which contribute to rural development and soil conservation for local population in each fokontany, following training plan in the Initial Target Communes</p> <p>2.2 Conduct training and education to enhance awareness and knowledge on conservation of natural environment for local population in each fokontany, following training plan in the Initial Target Communes</p> <p>3.1 Monitor and evaluate activities conducted by the Project in each fokontany such as training and follow-up</p> <p>3.2 Monitor and evaluate response of local population to training and follow-up</p> <p>3.3 Verify monitoring and evaluation results and consider measures to be taken</p> <p>3.4 Revise training plan on specific issues based on monitoring and evaluation</p> <p>3.5 Revise extension structure and methods of training and monitoring of activities conducted by local population based on monitoring and evaluation results</p> <p>3.6 Update the Project Implementation Guidelines based on monitoring and evaluation results</p> <p>3.7 Verify the efficiency of the above revised extension structure and the methods in the Extended Target Communes</p>	<p style="text-align: center;"><Malagasy Side></p> <p>1) Personnel</p> <ul style="list-style-type: none"> ➢ Project Director (Director General of Forests, MEEF) ➢ Co-Project Director (Director General of Technique, MADR) ➢ Project Manager (Regional Director of Environment, Ecology and Forests in Alaotra-Mangoro Region) ➢ Co-Project Manager (Regional Director of Rural Development in Alaotra-Mangoro Region) ➢ Technical personnel <ul style="list-style-type: none"> - Staff of MEEF and DREEF Alaotra-Mangoro - Staff of National Program Office for Irrigation and Watershed Management, MADR and DRDR Alaotra-Mangoro - Commune mayors and staff <p>2) Facilities</p> <ul style="list-style-type: none"> ➢ Office space for experts and local staff <ul style="list-style-type: none"> - Antananarivo (MEEF), Ambatondrazaka (DREEF, Alaotra-Mangoro) - Each commune <p>3) Activity cost</p> <ul style="list-style-type: none"> ➢ Salaries and travel allowances of counterparts ➢ Utility cost 	<ul style="list-style-type: none"> - Prolonged political vacuum at commune level does not occur. - Serious conflicts among local population do not occur. - Policy of promoting decentralization remains unchanged. - Land tenure and registration policies remain largely unchanged. - Budget to maintain GFs is secured. - Staff of GFs are recruited and maintained. - Building to install Morarano Chrome GF is secured. - Unauthorized mining activities are not implemented
<p>4.1 Agree on roles of Morarano Chrome Commune and the Project regarding establishment of land office (GF) of Morarano Chrome Commune</p> <p>4.2 Prepare equipment and materials necessary for the establishment of Morarano Chrome Commune GF according to the agreement</p> <p>4.3 Conduct training for Morarano Chrome Commune GF agent according to the agreement</p> <p>4.4 Identify challenges of GF of other Initial Target Communes and plan and implement appropriate support measures</p> <p>4.5 Monitor operation of GF of the Initial Target Communes and provide necessary advice and support</p> <p>4.6 Encourage local population to use GF in the Initial Target Communes</p> <p>5.1 Organize in Alaotra Mangoro Region regional level committee consisting of organizations responsible for environment, agriculture, local governance and the Target communes, and other projects operating in the Project Site; report progress; and obtain feedback</p> <p>5.2 Conduct workshops, seminars, field visits to present achievements of the Project, targeting officials concerned with administration of degraded upstream areas</p> <p>5.3 Conduct information and communication activities about the Model</p> <p>5.4 Holistically evaluate effectiveness of activity methods employed by the Project</p> <p>5.5 Develop a manual for the Model proposed by the Project which enables integrated promotion of rural development and soil conservation of degraded upstream area and a strategy for diffusion of the Model</p> <p>5.6 Develop at least one program proposal for implementation of the Model in degraded upstream areas</p> <p>5.7 Recommend adoption of the manual and the program proposal(s) developed to central government agencies</p>	<p style="text-align: center;"><Japanese Side></p> <p>1) Dispatch of experts</p> <ul style="list-style-type: none"> ➢ Chief Advisor, Rural Development, Soil Conservation, Local Governance, Training Management, etc. <p>2) Local staff</p> <ul style="list-style-type: none"> ➢ Approximately 7 Area Managers ➢ Interpreters, secretaries and drivers <p>3) Training</p> <ul style="list-style-type: none"> ➢ A few persons in Japan and/or third countries <p>4) Equipment</p> <ul style="list-style-type: none"> ➢ Vehicles, motorcycles, equipment and materials for GF, office equipment (computers, etc) <p>5) Activity cost</p> <ul style="list-style-type: none"> ➢ Fee for trainers responsible for providing extension and training to local population, and training materials ➢ Consumables (office supply etc.) 	<p style="text-align: center;"><Pre-Conditions></p> <ul style="list-style-type: none"> - Procedures to establish GF in Morarano Chrome Commune is completed.

(*1) Note: The target number shall be determined in the program proposal(s) to be submitted to MEEF and MADR by July 2016.

(*2) New activities mean the activities that had not been practiced by the household before training.