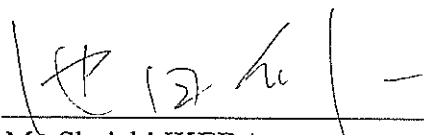
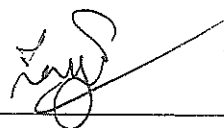


**REPORT OF THE JOINT MID-TERM REVIEW
ON
THE INTEGRATED MANGROVE REHABILITATION AND MANAGEMENT
PROJECT THROUGH COMMUNITY PARTICIPATION
IN THE AYEYAWADY DELTA**

3 March 2011



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TABLE OF CONTENTS

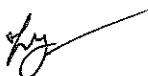
1. Introduction
 - 1-1 Objectives of the Review
 - 1-2 Members of the Review
 - 1-3 Schedule of the Review Study
2. Outline of the Project
 - 2-1 Background of the Project
 - 2-2 Summary of the Project
3. Review of the Latest PDM and PO
4. Methodology of the Review
 - 4-1 Data Collection Method
 - 4-2 Item of Analyses
5. Summary of Accomplishment and Implementation Process of the Project
 - 5-1 Accomplishment of the Project
 - 5-2 Implementation Process of the Project
6. Summary of Evaluation Results by Five Evaluation Criteria
 - 6-1. Relevance
 - 6-2 Effectiveness
 - 6-3 Efficiency
 - 6-4 Impacts
 - 6-5 Sustainability
7. Conclusion
8. Recommendations and Lessons
 - 8-1 Recommendations
 - 8-2 Lesson learned

(Annexes)

- Annex 1-1: The Project Design Matrix for Evaluation (PDME) based on the latest PDM
Annex 1-2 Modification made in the PDME
Annex 2: The Plan of Operations for Evaluation (POE) based on the latest PO
Annex 3: Accomplishment of the Project
Annex 4: Implementation Process of the Project
Annex 5: Evaluation based on Five Evaluation Criteria
Annex 6-1: Proposed Draft of the PDM2
Annex 6-2: Modification made for PDM2

(Referential Materials)

- RM A: Record of Myanmar Inputs
RM B: Record of Japanese Inputs
RM C: Data related to some Indicators
RM D: List of Project Deliverables



1. Introduction

1.1 Objectives of the Review

The review activities were performed with the following objectives:

- (1) To verify the accomplishments of the Project compared to those planned;
- (2) To identify obstacles and/or facilitating factors that have affected the implementation process;
- (3) To analyze the Project in terms of the five evaluation criteria (i.e. Relevance, Effectiveness, Efficiency, Impact, and Sustainability); and
- (4) To make recommendations on the Project implementation regarding the measures to be taken for the remaining period as well as the post-project period.

1.2 Members of the Joint Review Team

(1) The Japanese Team

Title	Name	Position
Team Leader	Shuichi IKEDA	Deputy Director General Forestry and Nature Group, Global Environment Department, Japan International Cooperation Agency
Mangrove Forest Management	Hiroyuki HATORI	Senior Advisor (Forest Environment) Japan International Cooperation Agency
Forest Administration	Kunio SHIMIZU	Policy Coordinator National Forest Department, Forestry Agency Ministry of Agriculture, Forestry and Fisheries
Cooperation Planning	Naomi MATSUE	Associate Expert Forestry and Nature Conservation Division 1, Global Environment Department, Japan International Cooperation Agency
Evaluation Analysis	Yasuyo HIROUCHI	Permanent Expert International Development Associates Ltd.

(2) The Myanmar Team

Title	Name	Position
Team Leader	U Zaw Win (4)	Director Planning and Statistics Division, Forest Department, Ministry of Forestry
Mangrove Forest Management	U Win Myint	Assistant Director Forest Research Institute, Forest Department, Ministry of Forestry
Community Development	U Hla Wai	Deputy Regional Manager (Ayeyawady Region) Myanmar Agricultural Service, Ministry of Agriculture and Irrigation
Forest Administration	U Min Maw	Assistant Director Planning and Statistic Division, Forest Department, Ministry of Forestry
Cooperation Planning	U Khin Maung Htay	Deputy Director Foreign Economic Relations Department, Ministry of National Planning and Economic Development



1.3 Schedule of the Review

The review of the Project was conducted from 7 February to 3 March 2011. The Joint Review Team (hereinafter referred to as “the Team”) collected the information through questionnaires and a series of interviews with Myanmar Project Personnel and Japanese experts. The Team also conducted a field observation in the Ayeyawady Delta for four days. Based on the results of the review, the Team prepared a draft report and finalized it through a series of discussions from 28 February to 3 March 2011.

2. Outline of the Project

2.1 Background of the Project

In Myanmar the Ayeyawady Delta is one of seriously deforested areas, where decades of unchecked expansion of agricultural land, unsustainable forest use, and more recently, harmful methods for aquaculture have severely damaged the remaining mangrove forests in the region. The loss of the forest has most affected local residents using mangroves as fuelwood. Farmers growing traditional paddy varieties in the brackish water areas have suffered from salinity and bank erosion from lack of protection from the mangroves in the riverbanks. Fishermen have also suffered from smaller catches in the degraded mangrove environment, where the loss of tree cover has destroyed the wetland fish-breeding habitat.

In view of the significance of managing the forest resources in the Ayeyawady Delta, during the period of 2002 to 2005, Japan International Cooperation Agency (hereinafter referred to as “JICA”) dispatched a team of experts to conduct the Study on Integrated Mangrove Management through Community Participation in the Ayeyawady Delta. The results of the Study have contributed to formulating a master plan, “the Integrated Mangrove Management Plan (2005-2044) (hereinafter referred to as “IMMP”) which aims to support sustainable coexistence of mangrove forests and communities in the Kyakankwinpawk, Pyinalan, Kadonkani and Pyindaye Reserved Forests. It has been approved by the Government of Myanmar (hereinafter referred to as “GOM”).

In order to initiate the implementation of the IMMP Phase I, a technical cooperation was requested by GOM to JICA in May 2005. A Preparatory Study was conducted by JICA in December 2005 and GOM and JICA signed the Record of Discussions (R/D) for a project in September 2006, and it was scheduled to implement from December 2006 to March 2012.

In May 2008, however, Cyclone Nargis hit the Ayeyawady Delta and caused crucial damage in the project area, including mangrove forests, local residents and infrastructure. Due to this natural disaster, the project was interrupted for 8 months (until December 2008). In January 2009, Japanese experts and Myanmar counterparts reviewed a project schedule at the meeting of Joint



Coordinating Committee (hereinafter referred to as “JCC”) and decided to add the perspective of disaster prevention in the project and revise the Project Design Matrix (PDM). As a result, the project period has been extended until March 2013.

2.2 Summary of the Project

(1) The Project Purpose

The communities and the mangrove forests co-exist in a sustainable manner in the selected areas where project activities are implemented within the Ayeyawady Delta.

(2) The Overall Goal

The mangrove forests are sustainably managed and poverty is alleviated among the communities in the Ayeyawady Delta.

(3) The Outputs

- 1) Output 1: The selected communities practice environmentally and economically sustainable community forestry (CF).
- 2) Output2: The management and the support system of the Forest Department for CF is effective.
- 3) Output 3: Some silvicultural techniques for the rehabilitation of the degraded and the management of the mangrove and its associated forests for the Ayeyawady Delta are established.
- 4) Output 4: A coordination mechanism is established among key sectors to address the underlying causes of mangrove deforestation in the Ayeyawady Delta.

3. Review of the latest PDM and PO

For evaluation of a technical cooperation of JICA, Project Design Matrix (hereinafter referred to as “PDM”) and Plan of Operations (hereinafter referred to as “PO”) are used as essential documents. Prior to the start of the evaluation, the Team reviewed the current PDM (PDM1 (draft)) and PO (PO1) approved in January 2009, and agreed to prepare a PDM for evaluation (PDME) (Annex 1) and PO for evaluation (POE) (Annex 2) as a basis of the evaluation. The PDME as well as POE was prepared by the Team through consultation with Myanmar project personnel and Japanese Experts.

4. Methodology of Review

4.1 Data Collection Method

The Team made interviews with the Myanmar Project Personnel and the Japanese experts engaged in the Project. The Team also collected information through questionnaires from the concerned personnel. The team also conducted field survey from 22 to 25 February 2011.



4.2 Items of Analyses

(1) Accomplishment of the Project

The accomplishment of the Project was measured in terms of the Inputs, the Outputs and the Project Purpose in comparison with the Objectively Verifiable Indicators of PDM as well as the plan delineated in the R/D.

(2) Implementation Process

The implementation process of the Project was reviewed to see if the activities have been implemented according to the schedule delineated in the latest PO, and to see if the Project has been managed properly as well as to identify obstacles and/or facilitating factors that have affected the implementation process.

(3) Evaluation based on the Five Evaluation Criteria

- (a) **Relevance:** Relevance of the Project was reviewed to see the validity of the Project Purpose and the Overall Goal in connection with the needs of the beneficiaries and policies of Myanmar and Japan.
- (b) **Effectiveness:** Effectiveness was analyzed by evaluating the extent to which the Project has achieved and contributed to the beneficiaries.
- (c) **Efficiency:** Efficiency of the Project implementation was analyzed focusing on the relationship between the Outputs and Inputs in terms of timing, quality, and quantity.
- (d) **Impacts:** Impacts of the Project were forecasted by referring to positive and negative impacts caused by the Project.
- (e) **Sustainability:** Sustainability of the Project was analyzed in institutional, financial and technical aspects by examining the extent to which the achievement of the Project would be sustained and/or expanded after the Project is completed.

5. Summary of Accomplishment and Implementation Process of the Project

5.1 Accomplishment of the Project (Details are described in Annex 3)

(1) Inputs (Details are described in section (1) of Annex 3)

Summary of Inputs is shown in the tables below.

Table 1: Summary of Myanmar Inputs

Allocation of project personnel:	Management personnel:9 persons Technical personnel:27persons	Running Expenses: (as of Mach 2011)	US\$ 97,016 (excluding salary)
----------------------------------	-----------------------------------------------------------------	----------------------------------------	-----------------------------------

Table 2: Summary of Japanese Inputs

Dispatch of Experts: (as of Sep 2010)	10 persons in total (92 M/M)	Provision of Equipment: (as of Sep 2010)	21,277,000 Yen
Project personnel Trained in Japan:	8 persons in total	Local Activity Cost: (as of Sep.2010)	138,127,195 Yen (equivalent to US\$ 1,534,747)

Yes

(2) Outputs (Details are described in section (2) of Annex 3)

1) Output X: Damage and recovery surveys on the local communities have been conducted as planned, results of which have already been compiled. A hazard map was developed in March 2009 based on the satellite images and its copies have been distributed to the local communities and the relevant government agencies. Four Centers for CF Extension and Nursery (CFCEN) in four target Reserved Forests, which had been destroyed by the Cyclone Nargis, have already been reconstructed with reinforced structure for cyclone proof. Materials and equipment necessary for disaster recovery or prevention works have been provided to the FD and MAS based on the needs. Damage and recovery surveys on mangrove forests have been conducted, results of which are expected to be compiled by December 2011.

Output X is likely to be achieved by December 2011.

2) Output 1: So far, a total of 690 acres has been rehabilitated by the CFUSGs supported by the Project.¹ Meanwhile, the possibility for all the active CFUSGs to gain profits from income generation activities supported by the Project is yet to be confirmed.

Output 1 has been partly achieved but is not likely to be fully achieved by the Project end because of the following reasons: (i) the actual number of CFUSGs to be organized/reorganized through the Project as well as an average area to be rehabilitated by each of the CFUSGs would be less than the assumptions, based on which the planned value of the Indicator was calculated: and (ii) current income generation support is not well integrated in the CF.

3) Output 2: The achievement level of Output 2 is unknown because of the following reasons: (i) the data for the Indicators is not available due to insufficient monitoring by the Project: and (ii) the Indicators are not relevant for Output 2. Judging from the progress of the activities, achievement of Output 2 is presumed to be less than expected due to the adverse effects posed by the Cyclone Nargis in May 2008.

4) Output 3: As planned, monitoring reports on AR on the silviculture techniques have been

¹ After the Cyclone Nargis, a total of 11 CFUSGs have been organized/re-organized: eight were newly organized through the Project while the other three were the pre-existing ones that had been initially organized prior to the Project. The CF Management Plans for newly organized 8 CFUSGs were prepared in 2009 and 2010. On the other hand, the CF Management Plans of the 3 pre-existing CFUSGs, which were prepared and certified 7~15 years ago, have not been updated yet though the natural and socio-economic conditions have been changed due to the damage caused by the Cyclone Nargis. All the 8 CF Management Plans, prepared through the Project, have been submitted to the District Forest Office for review and certification. None of them, however, has been certified yet because the District Forest Office opts for monitoring and confirming the participation & performance of the CFUSGs before issuing the CF certificates, considering poor performance of other CFUSGs in the Target Area in the past.

produced on periodic basis. A technical report, compiling the monitoring results, is expected to be produced by the Project end. Development of a draft technical guidelines is ongoing, which are expected be finalized by December 2012.

Output 3 has been partly achieved and is likely to be fully achieved by the Project end.

- 5) Output 4: An official and permanent inter-agency committee could not be formulated yet. As planned, land use information of the Target Area has been updated based on the satellite images. The updated information has not been discussed by the committee as originally envisaged; but has been shared with the relevant agencies through posters, newsletters. etc. As planned, seminars have been organized annually.

Output 4 has been partly achieved but is not likely to be fully achieved by the Project end because formation of an official and permanent inter-agency committee is considered to be very difficult.

- (3) Project Purpose (Details are described in section (2) of Annex 3)

The achievement level of the Project Purpose and its likelihood of the achievement by the Project end could not be assessed due to unavailability of the relevant data. For reference, a total of 1,816 acres has been rehabilitated through CF and AR plantations.

5.2 Implementation Process (Details are described in Annex 4)

6. Summary of Evaluation based on the Five Evaluation Criteria

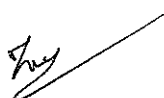
6.1 Relevance

The Overall Goal is still relevant with the needs of Myanmar. The Project Purpose is consistent with the organizational needs of the FD. It is relevant with the needs of local communities in the Project Area because their livelihood depends either directly or indirectly on the mangrove forests. The Overall Goal and the Project Purpose are relevant with the National Development Plan of Myanmar as well as Official Development Assistance (ODA) policies of Japan. Technical advantage of Japan is confirmed.

Overall, the Project is considered to be still relevant. (Details are described in Section 1 of Annex 5)

6.2 Effectiveness (Prospect)

Progress has been made towards achievement of the Project Purpose but the exact degree of achievement cannot be assessed because of unavailability of the relevant data and lack of



realistic planned value for the Indicators. Judging from the overall achievement level of the Outputs, achievement level of the Project Purpose is presumed to be lower than expected due to adverse effects posed by the external condition beyond the control of the Project (i.e. Cyclone Nargis). Since the exact level of overall achievement of the Outputs is not clear because of unavailability of the relevant data and lack of realistic planned value for some of the Indicators, the degree of delay in achieving the Project Purpose cannot be presumed. Meanwhile, all of the Outputs, although their level of achievement varies, have contributed to the achievement of the Project Purpose. If the Outputs had been achieved as planned without being affected by the Cyclone Nargis, the achievement level of the Project Purpose would have been as planned.

The prospect of the effectiveness is not clear at the moment. (Details are described in Section 2 of Annex 5)

6.3 Efficiency

In general, the Inputs from the both Myanmar and Japanese sides have been appropriate in producing the Outputs in terms of timing, quality and quantity. Production level of some of the Outputs is less than expected, however, due to adverse effects posed by the external condition that was beyond the control of the Project (i.e. Cyclone Nargis). It is noted that, through the efforts of the Project staff as well as the support provided by the Japanese Experts, the negative impacts on production of the Outputs have been alleviated to a certain extent.

On the whole, the efficiency of the Project has not been sufficient because of the adverse effects posed by the external condition. (Details are described in Section 3 of Annex 5)

6.4 Impacts

It is still early to assess the likelihood of achievement of the Overall Goal. Meanwhile, some positive impacts have been observed already, including application of the techniques acquired through training in Japan, technical exchange programs in Vietnam and Thailand, Action Research activities, etc. in the plantation activities of the FD; creation of temporary employment for local villagers in rehabilitation of CFCENs and establishment of AR plantation; and provision of shelter to local villagers from a high tide, which hit Pyindaye Reserved Forest in Pyarpon in 2010, by the nearest CFCEN. Negative impacts have not been observed. They are not foreseen, either. (Details are described in Section 4 of Annex 5)

6.5 Sustainability (Forecast)

Institutional and organizational aspects: The legal and policy support for integrated mangrove management, including CF, is likely to continue. All of the project staff members are permanent staff of the Government of Myanmar, whose employment is ensured. They are



expected to be assigned to the relevant posts in the post project period so that they could utilize the techniques/experiences obtained through the Project continuously. With a regular inter-agency project coordination meeting at regional level and a regular donor/NGO coordinating meeting at district level in place, the coordination/cooperation with the relevant organizations is expected to be enhanced. Post-project strategy for promotion of integrated mangrove management, including CF, in the Ayeyawady Delta is yet to be developed, however.


Financial aspects: So far, the Government of Myanmar has allocated necessary budget to implement the Project activities except for transportation costs for field visits, which have been often borne by the Japanese side. Unless measures to secure the transportation costs for the field visits are secured, continuation and expansion of the related activities in the post-project period would be difficult.

Technical aspects: In the field of silviculture techniques/Action Research, the technical capacity of the FD staff has been enhanced steadily. The transferred techniques have been already utilized in other departmental works. The techniques and the deliverables (i.e. technical report and technical guidelines) are expected to be utilized and disseminated in the post-project period. In the field of CF management and support system, the continuous utilization/dissemination of the transferred techniques and the deliverables, including a training program and a SOP for CF in mangrove area, is expected to be ensured because the Project plans to develop them based on the existing training program of CFDTC and existing regulations of the FD (e.g. Departmental Instructions and CFI); to field-test them before finalization; and to incorporate the final deliverables into the existing institutional framework of the FD. With regard to CF in the Target Area, the Mid-term Review Team reserves its judgment due to insufficient information. The provided equipment, which is essential to carry out the activities related to integrated mangrove management, is likely to be utilized after the Project end.

Taken together, sustainability is likely to be ensured if certain issues, including development of the post-project strategy and securing the budget for transportation costs for field visits, are addressed before the end of the Project (Details are described in Section 5 of Annex 5)

7. Conclusion

The Project was launched for a five-year period starting from April 2007, but in May 2008, Cyclone Nargis struck Myanmar and caused great damage to the Project activities. This natural disaster forced the Project to suspend the activities for eight months and ruin the achievements thus far. In January 2009, PDM was modified as PDM1 being added various recovery activities, and the Project extended its cooperation period for one more year until March 2013 was resumed.



Through the Mid-term review in February 2011, the Team has confirmed that the indicators set by the PDM1 are obviously too excessive to achieve during the project period in spite of great damage for the Target Area and the various recovery activities. In addition, the Team has identified there were some cases in which process of implementing the activities was not so effective and efficient for the expected Outputs.

In order to achieve the four Outputs steadily and realize the Project Purpose, “the coexistence between communities and mangrove forests in a sustainable manner”, it is essential to strengthen the Project implementation strategies and revise the PDM and PO. Japanese Expert Team and Myanmar counterparts are required to clarify their tasks and to conduct them efficiently in the remaining two years of the Project. Detailed explanation for necessary revision of the Project is described in the Recommendations below.

8. Recommendations and Lessons

8.1 Recommendations

8.1.1 Recommendations for Output 1

(1) Selection and categorization of monitoring CF Target Villages in the remaining period

In the beginning, the Project had a plan to select 20 villages as CF Target by 2011; however, due to damage to the Target Area by Cyclone Nargis, only 11 CF Target Villages were selected, and CFUSGs were organized by 2010.

Considering the remaining period, it is recommended to further focus on 6 villages according to the 5 criteria: land use conflict, illegal pond, accessibility to the village, other conflicts in the village and the level of community participation. Following table shows the CF extension activities that should be conducted in the 6 villages.

Category of CF extension activities \ Village	Kwa Kwa Ka Lay (Kyakank wainpauk RF)	Nyaung Ta Pin (Pyinalan RF)	Thar Yar Kone (Pyinalan RF)	Shwe Pyi Thar (Pyindaye RF)	Gaw Du (Pyindaye RF)	Htaung Gyi Tan (Pyindaye RF)	Relevant PDM Activities.
Monitoring of CF activities and support for preparation of annual report on CFMP	√	√	√	√	√	√	1.8
Public awareness-raising	√	√	√	√	√	√	2.8
Organizational strengthening of MCs	√	√	√	√	√	√	1.8
Technical support for mangrove maintenance of the	√	√	√	√	√	√	1.8



rehabilitated area							
Technical support for mangrove rehabilitation	√	√	√				1.8
Support for updating CF Management Plan		√	√				1.4

(2) Activities for livelihood Improvement

It is advisable to implement trial activities for livelihood improvement, such as technical training on charcoal production, through use of forest products from NFIO on the basis of a CF Management Plan.

(3) The early issue of CF certificates

CF certificates should be issued promptly to CFUSGs that have already drawn up CF Management Plans.

(4) CF Management Maps

According to PDM1, CF Management map was supposed to be prepared for planning land use of the entire village including CF plantations, paddy field and residential area. However, CFUSGs were not actually organized by all the villagers in the Target Villages and had difficulty in producing a land use map in the entire area. It is recommended to make a CF management map in which only CF management areas are specified.

(5) Assistance to establish by-laws within CFUSGs

As many CFUSGs did not conduct CF activities in accordance with their byelaws, the Project should consider assisting CFUSGs to develop by-laws with reference to samples developed by the previous development study.

(6) Implementation of oyster culture

Oyster culture has been implemented as an income-generation activity in the villages though some are different from the above 6 CF Target Villages. This activity could be continuously supported by the Project. However, the rights to sell oyster and rules of managing profits from sale of oyster should be confirmed amongst FD, DOF and CFUSGs.

8.1.2 Recommendations for Output 2

(1) Collaboration with CFDTTC

It is recommended to collaborate with CFDTTC in designing training courses, developing education materials for CF activities and implementing the courses for CFTF members (i.e. Staff



officers, Ranger officers and Foresters at the district and township level).

(2) Organizing workshops

It is recommended to organize workshops for all CFTF members to design training courses and produce CFSOP. At the time, necessary resource persons could be invited from the other organizations, such as CFDTTC and Forest Research Institute.

(3) Public awareness raising activities to CFUSGs

In order to promote CF activities, it is suggested to organize an event to raise public awareness in the CF villages on the occasion that CF certificates are issued by FD. Educational tools, such as posters on functions of mangroves and how to grow and use them effectively, and outline of each CF Management Plan, should be continuously produced in the Project and be distributed to the Target Villages.

8.1.3 Recommendations for Output 3

(1) Research plot allocation by research item

In order to show the justification of AR, a research plot allocation table should be prepared. An example of format is shown as below.

Ex. Research Plot Allocation Table

Research Item	Site Condition	Plot(Comparative)	FC	Area	Year of Planting	Condition
ST-1	Tide, elevation, soil	Plot 11				<i>Av. officinalis</i> , 3x3
		Plot 12				<i>S. apetala</i> , 3x3
		Plot 13			
ST-2	Tide, elevation, soil	Plot 21				Mono species, 3x3
		Plot 22				Mixed type A, 3x3
		Plot 23				Mixed type B, 3x3
ST-3	Tide, elevation, soil	Plot 31				<i>Av. officinalis</i> , 3x3
		Plot 32				<i>Av. officinalis</i> , 6x6
		Plot 33				<i>Av. officinalis</i> , 9x9
ST-4	Tide, elevation, soil	Plot 41				<i>M. leucadendron</i>
	Tide, elevation, soil	Plot 42				<i>Casuarinaeaxisitifolia</i>
LT-1	Tide, elevation, soil	Plot 51				Without Mound
		Plot 52				With Mound type A
		Plot 53				With Mound type B
LT-2	Tide, elevation, soil	Plot 61				Without Weeding
		Plot 62				With Weeding type A



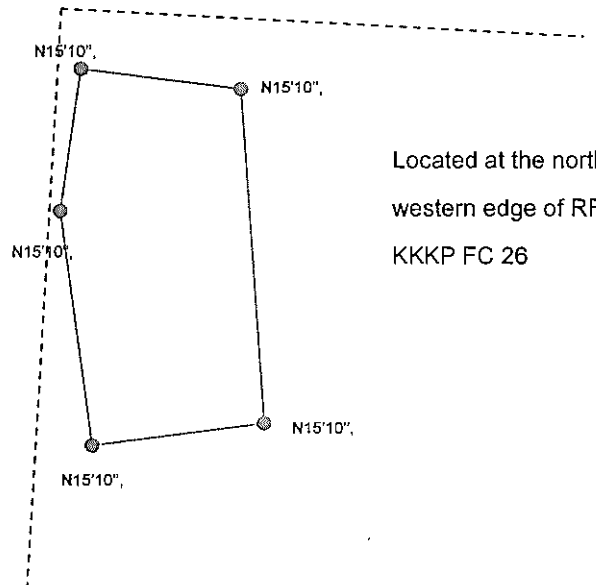
		Plot 63				With Weeding type B
LT-3	Tide, elevation, soil	Plot 71				Without Mulching
		Plot 72				With Mulching type A
		Plot 73				With Mulching type B
LT-4	Tide, elevation, soil	Plot 81				Without Ploughing
		Plot 82				With Ploughing type A
		Plot 83				With Ploughing type B

The number of comparative plots may be more than two depending on research items.

(2) Plot Record

In order to ensure the sustainability of effectiveness of AR even after the Project term, data sets of each research plot should be compiled (and ready to be updated) in the form of forest inventory book. An example format of plot record is given below.

Ex. Plot Record

AR Plot No.:	21	Reserved Forest:	KKKP
Research Item:	ST-2	Compartment:	26
Overview: (Land data with GPS position)		Area:	250 acre
 <p>Located at the north western edge of RF KKKP FC 26</p>		Site Condition	
		Ground level:	
		Tide level:	
		Soil condition: (description)	
Planting measures: (description)			
Spacing, special treatment at planting, etc.			
Tending history: (description)			
With / without weeding, etc.			
	No. of seedlings /mean	No. of survived seedlings/mean height	

Handwritten signature



	height						
Species	(Year of plantation)						
<i>A. officinalis</i>	/						
	cm						
<i>S. apetala</i>	/						
	cm						
<i>C. decandra</i>	/						
	cm						

Note: a signboard on each AR site should describe an outline of records, such as plot number, acre, species planted, number of trees, and a year of plantation.

(3) Data on nursery activities

Instead of formulating a guideline for nursery techniques, all the data of nursery activities implemented by the Project, including actual performances, should be recorded, which are to be compiled in the form of a nursery guideline by FD after the Project.

(4) Sharing the ARP and RMS among CFTF members

CFTF members should share the results of ARP and RMS and exchange opinions. They should also produce technical guidelines. For the purposes, it is useful to organize a series of workshops. The results of the workshops could be reflected into producing technical guidelines.

8.1.4 Recommendations for Output 4

(1) Coordination meetings among relevant agencies

Coordination meetings among relevant agencies should be held during the Project, where they share information, such as the situation of CF activities and Reserved Forests in the Ayeyawady Delta, prior to consideration of a permanent committee as the district level of coordination mechanisms.

(2) Organizing meetings with donors and NGOs in the Target Area

Different donors and NGOs have implemented a project in the Target Area, but the Project did not share sufficient information with them. Therefore, it should hold meetings with such the donors and NGOs and exchange information, which can be given mutual benefits for activities in the Target Area. Moreover, the Project is expected to consider and promote possibilities of cooperation with other donors and NGOs in the Target Villages and collaborative education and training activities using CF Extension Centres through the meetings.



8.1.5 Recommendations to improve Impact and Sustainability

(1) Effective use of CFSOP and technical guidelines on mangrove forests

In order to effectively use products in the remaining period, the following action should be taken by FD:

- (a) Authorize a draft CFSOP;
- (b) Authorize a technical guideline on mangrove plantation
- (c) Notify the above CFSOP and technical guideline to Ayeyawady Division;
- (d) Consider using the CFSOP and technical guideline as education materials in training organizations such as CFDTTC and university;
- (e) Consider continuing the CF mangrove training courses developed by the Project in cooperation with CFDTTC; and
- (f) Monitor the ARP sites after the Project and fill out in the plot record.

(2) Policy aspect of Sustainability

CF activities include both development of plantations and their utilization as well. The Project should; i) encourage communities to consider an effective and efficient way of using forest resources, and ii) give them necessary advice on how to conduct their forestry activities in a sustainable manner.

(3) Financial aspect of Sustainability

In order to secure a part of the financial aspect of sustainability, the FD should clarify contents and examine frequency of monitoring activities to be continued in the Target Area after the Project. It should also estimate costs of those activities. Besides, the GOM should consider a budget for the above activities in FY 2012, to the possible extent and begin to secure such budget in the post-Project period.

8.1.6 Recommendations to the overall Project

(1) Organizing regular meetings among personnel concerned with the Project

The following meetings should be held regularly to enhance internal monitoring:

- (a) Monthly township-level meetings between the FD and the Japanese Expert Team;
- (b) Quarterly district-level meetings between the FD and the Japanese Expert Team; and
- (c) Quarterly project management meetings, consisting of the Project Manager, the Project Coordinator, the Field Manager, and the Japanese Expert Team.

(2) Assignment of sufficient personnel to the Project

During the remaining period of the Project, FD should secure a sufficient number and period of staff and assign them appropriately to complete the tasks of the Project. Moreover, CFTF members should participate in a number of workshops and actively contribute into discussions

and preparation of products.

(3) Modification of PDM

PDM should be modified as PDM2 as a result of the mid-term review. The draft PDM 2 is attached to this report (See Annex 6). At the early time of FY 2011, PO should also be modified according to the PDM2, and the revised PDM and PO should be agreed by FD and JICA.

(4) Identification of planned values for some indicators of the Overall Goal, Project Purpose and Outputs

Planned values of some indicators should be decided by the middle of 2011 and be authorized by JCC in 2012.

8.1.7 Other Recommendation

It should be considered to properly utilize equipments, such as computers, a copy machine and generators in the Project Office of Myaung Mya District.

8.2 Lessons Learned

Extensive establishment of models would not be effective, or even reckless, as a strategy for a project with the limited term. Especially for such the project as its target sites are scattered in really remote areas, the number of so-called models should be carefully examined and decided in the beginning of the project. In case of formulating a similar project, the following procedures are to be taken into consideration: (1) to collect information about possible candidates for target sites and to conduct initial survey on the sites. If possible candidates are so many, they can be screened by first information before conducting on-site survey, (2) to identify criteria for selection and to select target sites considering possible input, (3) to support target sites to organize stakeholders' consortium / users' group and to make a management plan, (4) to technically support stakeholders' consortium / users' group to implement the management plan, (5) to monitor the performance and progress of stakeholders' consortium / users' group activities, and (6) to compile experiences in the form of guideline, manual or case study report.

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ANNEX 1-1

PDM for Evaluation (PDME) (Addition to the draft PDM1 is shown as underlined and deletion as struck-through)

1. Project Title: Integrated Mangrove Rehabilitation and Management Project through Community Participation in the Ayeyawady Delta
 2. Project Duration: April 2007-March 2013
 4. Target Area: Four reserved forests (Kyakankwinpauk, Pynalan, Kadonkani, Pyindaye) in the Ayeyawady Delta
 5. Beneficiaries: Communities practicing community forestry in the four reserved forests (Kyakankwinpauk, Pynalan, Kadonkani, Pyindaye) in the Ayeyawady Delta
- Community Forestry Task Force and other relevant staff from the Forest Department

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal: The mangrove forests are sustainably managed and poverty is alleviated among the communities in the Ayeyawady Delta</p>	<p>a. Mangrove forest coverage increases by 12,000 acres⁶⁴⁴ in the Target Area of the current Project. (i.e. 4 RFs) within three years after the completion of the Project b. Income levels of communities in the Target Area is improved than that of 2004</p>	<p>a. Project reports b. Results from the assessment by FD (remote sensing) c. Results from the Agricultural Census report</p>	<p>1 Favorable markets exist for CF products. 2 FD's policy on the management of the four reserved forests does not change significantly. 3 Sufficient financial and other resources are allocated for the sustainable management of mangrove forests.</p>
<p>Project Purpose: The communities and the mangrove forests co-exist in a sustainable manner in the selected areas where project activities were implemented within the Ayeyawady Delta.</p>	<p>a. By the Project end, mangrove forest coverage is increased by 6,200 acres⁶⁴⁵ in the selected areas where project were implemented (i.e. CF and Action Research Plantation sites) b. At the end of the Project, in more than 80% of the villages, where the CF user groups (CFUSGs) were organized/ reorganized during 2009-2011, the percentage of households earning less than the average income of 100,000 kyats equivalent per year (base year 2002) decrease from the base year of CF organization/reorganization. c. At the end of the Project, among the registered members of the CFUSGs organized/reorganized during 2009-2011, more than 80% consider CF useful.</p>	<p>a. Project reports b. Results from the CF Impact survey c. Results from the CF Impact survey</p>	<p>1 No drastic increase in the population within the four reserved forests. 2 External pressure to convert the mangrove forests to other land uses does not increase.</p>
<p>Outputs:</p>	<p>1a By the Project end, more than 4,000 acres (1,600 ha)⁶⁴⁶ of mangrove forests are rehabilitated and managed by the CFUSGs organized/reorganized during 2009-2011 based on the certified CF Management Plans. 1b By the Project end, all active CFUSGs organized/reorganized during 2009-2011 gain profit from CF activities determined in the certified CF Management Plans & income generation activities supported by the Project. 2a At the end of the Project, more than 80% of all registered members of the CFUSGs organized/reorganized during 2009-2011 are active 2b Each year, new communities continue to express interest in organizing CFUSGs. 3a By the Project end, a technical report on Action Research (AR) is prepared in English and Myanmar 3b By the Project end, technical guidelines for field FD staff on silvicultural techniques for rehabilitation of mangrove and its associated forests in Ayeyawady Delta, developed based on AR findings, is published (in English and Myanmar)</p>	<p>1a,1b CF management plans, monitoring reports 2a Project reports 2b Project reports 3a Project reports 3b Project reports 4a Authorities' letter of announcement 4b Land use maps 4c Meeting records 4d Seminar records Xa Hazard map, project report</p>	
<p>3. Some silvicultural techniques for the rehabilitation and the management of the mangrove and its associated forests for the Ayeyawady Delta are established.</p>	<p>4a Inter-agency committee is officialized. 4b Land use information of the Target Area is updated based on the satellite images of 2007, 2009 and 2012 for discussion by the committee meetings. 4c Specific recommendations are made and/or actions are taken by the committee. 4d Seminars to promote synergy among the relevant sectors are organized annually</p>		
<p>4. A coordination mechanism is established among key sectors to address the underlying causes of mangrove deforestation in the Ayeyawady Delta.</p>	<p>Xa: By March 2009, a hazard map of the Target Area is developed based on the latest satellite images (2009) for distribution to the local communities Xb By March 2010, data on damage & recovery survey on the communities in the Target Area is compiled Xc By March 2010, Centre for CF Extension & Nursery in each RF is rehabilitated with reinforced structure that is cyclone-proof. Xd In 2009 & 2010, materials necessary for disaster recovery or prevention work are provided to the FD and the Cooperating Agencies based on the needs Xe By Dec 2011, data on recovery condition of mangrove vegetation (2008-2010) is compiled</p>		
<p>X (Additional Output after the Cyclone Nargis in May 2008) Recovery from damage of Cyclone Nargis is promoted.</p>			



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ANNEX 1-1 PDM for Evaluation (PDME) (Addition to the draft PDM1 is shown as underlined and deletion as struck-through)

Activities:	Inputs	1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases). 2 Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests
<p>1-1 Select villages to introduce CF from the ones that express interest.</p> <p>1-2 Conduct baseline survey on the basic socio-economic conditions of the selected villages.</p> <p>1-3 Organize/reorganize CFUSGs in the selected villages</p> <p>1-4 Assist the CFUSGs in preparing/updating their CF Management Plans⁽⁴⁾ and proposals for CF certificates through participatory planning process</p> <p>1-5 Issue CF certificates to the CFUSGs based on the proposals as per the CF Instruction (CFI)</p> <p>1-6 Assist the CFUSGs in implementing the certified CF Management Plans</p> <p>1-7 Implement various capacity strengthening programs to enhance the income levels of the CFUSGs in partnership with Cooperating Agencies such as Department of Fisheries (DOF), Myanmar Agriculture Service (MAS), and other institutions. Monitor and evaluate the implementation of the certified CF Management Plans</p> <p>1-8 Conduct impact survey regarding the effects of CF on the livelihoods of the members of the CFUSGs.</p> <p>1-9 Identify necessary activities for CF management⁽⁵⁾ and CF extension & support⁽⁶⁾ by each Reserve Forest (RF) based on review of the CF contents of the Integrated Mangrove Management Plan (IMMP).</p> <p>2-1 Confirm the roles and responsibilities of the technical members of CF Task Force (technical MCFTF)⁽⁷⁾ for the identified activities</p> <p>2-2 Assess the needs of the technical MCFTF (e.g. financial, logistics and human resource development needs) to implement the identified activities</p> <p>2-3 Develop training plan & materials based on the assessment of the human resource development needs conducted in 2.3.</p> <p>2-4 Train the technical MCFTF according to the plan</p> <p>2-5 Construct/renovate the CF Extension Center & Nursery in each RF</p> <p>2-6 Provide extension services and support to the CFUSGs</p> <p>2-7 Carry out public awareness campaigns regarding CF and the conservation of mangrove forests</p> <p>2-8 Draft detailed SOP for CF for the mangrove forests based on the existing SOP of the FD (i.e. Departmental Instructions) and feedback from the Project activities</p> <p>2-9 Develop post-project strategy for CF management and CF extension & support</p> <p>2-10 Conduct surveys for identification of silvicultural techniques for both community and non-community forestry with respect to the eco-geographical / management zones in the Ayeeyawady Delta</p> <p>3-1 Prepare the specific Action Research (AR) test designs for each of the identified silvicultural techniques(e.g. nursery, planting and natural forest operation techniques)</p> <p>3-2 Execute the AR in each RF</p> <p>3-3 Conduct periodic technical monitoring / preliminary assessment on the AR plantation (ARP)</p> <p>3-4 Prepare a technical report on action research (AR) is prepared in English and Myanmar</p> <p>3-5 Develop technical guidelines for silvicultural techniques for rehabilitation of mangrove and its associated forests based on the findings of the AR</p> <p>3-6 Formulate an inter-agency committee, consisting of relevant authorities (e.g. agriculture, fisheries, settlement and land records) at the District Regional level to examine the underlying causes for mangrove deforestation in the Ayeeyawady Delta.</p> <p>4-1 Update the land use information on periodic basis based on the up-to-date satellite images for discussion by the committee members, including overall forest resource assessment of the region and mangrove forest conversion.</p> <p>4-2 Conduct coordination among the committee members upon demand to coordinate instructions for the implementation of appropriate land use policies.</p> <p>4-3 Organize seminars to promote synergies among the relevant sectors for the sustainable management of the mangrove ecosystem in the Ayeeyawady Delta.</p> <p>4-4 Prepare hazard map based on analysis of damage of the cyclone Nargis</p> <p>4-5 Conduct quick damage & recovery survey in the Target Area</p> <p>4-6 Conduct village profile survey in the Target Area</p> <p>4-7 Conduct surveys for recovery condition of mangrove vegetation from damage of Cyclone Nargis in the Target Area.</p> <p>4-8 Rehabilitate the CF Extension Center and Nursery in each RF with reinforced structure that is cyclone proof.</p> <p>4-9 Support recovery or disaster prevention work of implementation and Cooperative Organizations in the Target Area through material supply</p> <p>4-10 Arrange necessary awareness activities on disaster prevention in the Target Area</p> <p>4-11 Arrange necessary coordination among donors in the integrated mangrove management</p>	<p><u><Myanmar Side></u> <u>Personnel</u> (Members of CF Task Force members: MCFTF)</p> <ol style="list-style-type: none"> 1. Project Director 2. Project Manager 3. Project Coordinator 4. Field Project Manager 5. Other MCFTF 6. Other personnel mutually agreed upon as necessary <p><u>Land, Building and Facilities</u></p> <ol style="list-style-type: none"> 1. Office building and facilities necessary for the implementation of the Project 2. Office space and necessary facilities for the Japanese experts and related staff members 3. Land for the action research 4. Jetty and space necessary for storage of boats and vehicles 5. Other facilities mutually agreed upon as necessary <p><u>Local Operational Costs</u> Minimum of US\$100,000 equivalent in 5 years</p> <p><u><Japanese Side></u> <u>Personnel</u></p> <ol style="list-style-type: none"> 1. Chief Advisor 2. Participatory community development 3. Mangrove forestry 4. Coordinator 5. Other experts in specific fields (e.g. Extension, GIS, Agro-forestry, Fish culture, Forestry Value-added Production, Marketing and Distribution) upon mutual agreement <p><u>Machinery and Equipment</u></p> <ol style="list-style-type: none"> 1. Boat(s) 2. Vehicle(s) 3. Other equipment would be provided if necessary upon mutual agreement. <p><u>Training in Japan</u></p> <p><u>Local Costs</u></p>	<p>1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases). 2 Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests</p> <p><u>Pre-Conditions</u></p> <ol style="list-style-type: none"> 1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases). 2 Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests

ANNEX 1-1 PDM for Evaluation (PDME) (Addition to the draft PDM1 is shown as underlined and deletion as struck-through)

- *1- "12,000 acres " is a tentative target, which was set based on the assumption that an annual target of the IMMP phase I for mangrove plantation (i.e. 4,000 acres) is achieved by 2016. The figure will be reviewed & finalized based on the results of the Joint Mid-term Review
- *2: "6,000 acres " is a tentative target, which was set based on the following assumptions: (i) 20 CFUSGs are organized or reorganized during FY2009-FY2011; (ii) 200 acres is rehabilitated/ managed by each of the 20 CFUSGs (200 acres X 20=4,000 acres); and (iii) a total of 2,000 acres is planted through AR. The figure will be reviewed & finalized based on the results of the Joint Mid-term Review
- *3: "4,000 acres" is a tentative target, which was set based on the following assumptions: (i) 20 CFUSGs are organized or reorganized during 2009-2011; and (ii) 200 acres is rehabilitated/managed by each of the 20 CFUSGs. The figure will be reviewed & finalized based on the results of the Joint Mid-term Review
- *4: CF Management Plan, including CF Management Maps for planning land use of the village, where in which CF Plantation, paddy, residential area, etc are identified, would be prepared through introducing land use rule for applying CFI; and- identified areas would be delineated by putting land marks in the field.
- *5: "CF management" by FD is defined as planning, supervision, monitoring and evaluation, and data organization and analysis of the activities related to CF. "CF support" consists of extension service and extension support to CF.
- *6: "CF extension services" may include organization of the CFUSGs, strengthening of the organizational/management capacity of CFUSGs, provision of technical support for preparation and implementation of the CF Management Plans and income generation activities of CFUSGs, etc. "CF extension support" is defined as material support to CFUSGs, which include provision of seedlings for CF plantation delineated in the CF Management Plans, making the facilities of the CF Extension and Nursery available to the CFUSGs for their activities, etc.
- *7: "Technical MCFTF" in Output 2 include the Field Project Manager and field FD staff (Staff Officers(SOs), Range Officers(ROs), Deputy ROs(DROs), & Foresters) relevant to the Target Area

ANNEX 1-2

Modification made in the PDME (Addition to the draft PDM1 is shown as underlined and deletion as struck-through)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal: The mangrove forests are sustainably managed and poverty is alleviated among the communities in the Ayeyawady Delta</p> <p>Project Purpose: The communities and the mangrove forests co-exist in a sustainable manner in the selected areas where project activities were implemented within the Ayeyawady Delta.</p>	<p>a. Mangrove forest coverage increases from 110,000 acres (45,000ha) in 2007 to 136,000 acres (55,200 ha) by 2010 of the total project area in 2016 in project target area the Target Area of the current Project (i.e. 4 RFs)</p> <p>b. Income levels of communities in the Ayeyawady-Delta project target area improve than that of 2004</p>	<p>a. Forests resource assessment by FD (remote sensing) b. Agricultural Census report</p>	<p>1 Favorable markets exist for CF products. 2 FD's policy on the management of the four reserved forests does not change significantly. 3 Sufficient financial and other resources are allocated for the sustainable management of mangrove forests.</p>
<p>Outputs: 1. The selected communities practice environmentally and economically sustainable community forestry (CF). 2. The management and the support system of the Forest Department (FD) for CF is effective. 3. Some silvicultural techniques for the rehabilitation of the degraded and the management of the mangrove and its associated forests for the Ayeyawady Delta are established. 4. A coordination mechanism is established among key sectors to address the underlying causes of mangrove deforestation in the Ayeyawady Delta.</p>	<p>a. By the Project end, mangrove forest coverage is increased by 6,200 acres^(*) from 140,000 acres (45,000ha) in 2007 to 146,200 acres (47,000 ha) in 2013 in the selected areas where project activities were implemented. (i.e. CF plantation and Action Research plantation sites) b. At the end of the Project, in more than 80% of the CF-villages, where the CF user groups (CFUSGs) were organized/reorganized during 2009-2011, the percentage of households earning less than the average income of 100,000 Kyats equivalent per year (base year 2002) decrease from the base year of CF establishment. organization/reorganization c. At the end of the Project, among the registered members of the CF participants supported by the Project CFUSGs organized/reorganized during 2009-2011, more than 80% consider CF useful.</p> <p>1a By the Project end, more than 4,2000 acres (1,800 ha) ^(*) of mangrove forests are rehabilitated and managed by the CFUSGs organized/reorganized during 2009-2011 through CF based on the certified CF Management Plans by the end of the Project. 1c By the Project end, all new active CFUSGs launched organized/reorganized during FY-2009-FY2011 under the Project gain profit from CF activities determined in the certified CF Management Plans & income generation activities supported by the Project. 2a At the end of the Project, more than 80% of all registered CF user groups members are active among of the CFUSGs activated organized/reorganized during FY-2009-FY2011 under the Project are active 2b Each year, new communities continue to express interest in forming organizing CFUSGs each year. 3a By the Project end, a technical report/draft guidelines are prepared based on action-research findings on action research (AR) is prepared (in English and Myanmar) 3b By the Project end, technical guidelines for the field FD staff on silvicultural techniques for rehabilitation of mangrove and its associated forests in Ayeyawady Delta, developed based on the AR findings, is published (in English and Myanmar) 3b- Foundations for propelling HMP is prepared including recovery from the damages of cyclone => to Xc 4a Inter-agency disciplinary committee is officialized 4b Land use information of the Target Area is updated based on the satellite images of 2007, 2009 and 2012 for discussion by the committee members 4c Specific recommendations are made and/or actions are taken by the committee. 4d Seminars to promote synergy among the relevant sectors are organized annually</p>	<p>a. Project reports b. Results from the CF Impact survey c. Results from the CF Impact survey</p> <p>1a, 1b management plans, monitoring reports 1c Project reports</p> <p>2a Project reports 2b Project reports 2c: Project reports</p> <p>3a Project reports 3b Project reports</p> <p>4a Authorities' letter of announcement 4b Meeting records 4c: Project reports</p>	<p>1 No drastic increase in the population within the four reserved forests. 2 External pressure to convert the mangrove forests to other land uses does not increase.</p>
<p>X (Additional Output) Recovery from damage of Cyclone Nargis (May 2008) is promoted.</p>	<p>Xa: By March 2009, a hazard map of the Target Area is developed based on the latest satellite images (2009) for distribution to the local communities Xb By March 2010, data on damage and recovery survey on the communities in the Target Area is compiled Xc By March 2010, Centre for CF Extension & Nursery in each RF is rehabilitated with reinforced structure that is cyclone proof. Xd In 2009 & 2010, materials necessary for disaster recovery or prevention work are provided to the FD and the Cooperating Agencies based on the needs Xe By Dec 2011, data for recovery condition of mangrove vegetation (2008-2010) is compiled</p>		

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ANNEX 1-2 Modification made in the PDME (Addition to the draft PDM1 is shown as underlined and deletion as struck-through)

Activities:	Inputs	1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
1-1 Select villages to introduce CF from the ones that express interest.	<u><Myanmar Side></u> Personnel (Member of CF Task Force (MCFTF))	2 Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests
1-2 Conduct recovery survey and village profile survey based on needs and economic conditions of the selected communities/villages	1. Project Director 2. Project Manager 3. Project Coordinator 4. Field Project Manager 5. Other CF Task Force members necessary	1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
1-3 Organize/reorganize CFUSGs in the selected villages Mobilize the selected communities for user group formation and conduct introductory meetings on CF.	Land, Building and Facilities 1. Office building and facilities necessary for the implementation of the Project 2. Office space and necessary facilities for the Japanese experts and related staff members 3. Land for the action research 4. Jetty and space necessary for storage of boats and vehicles 5. Other facilities mutually agreed upon as necessary	2 Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests
1-4 Assist the CFUSGs in preparing/updating their CF Management Plans ^(*) and proposals for CF certificates through participatory planning process. Introduce participatory planning processes and land use rule for applying CFI to facilitate preparation of proposals for CF certificates and formulation of management plans including 1) prepare CF management map for planning land use of the village where CF Plantation, paddy, residential area, etc., and 2) setting land mark for delineate the land use	Local Operational Costs Minimum of US\$100,000 equivalent in 5 years	1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
1-5 Issue CF certificates to the CFUSGs based on the proposals as per the CF Instruction (CFI)	<u><Japanese Side></u> Personnel 1. Chief Advisor 2. Participatory community development 3. Mangrove forestry 4. Coordinator 5. Other experts in specific fields (e.g. Extension, GIS, Agro-forestry, Fish culture, Forestry Value-added Production, Marketing and Distribution) upon mutual agreement	2 Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests
1-6 Facilitate Assist the CFUSGs in implementation of the certified CF Management Plans of the user groups for protection related CF activities (CF river bank / coastal woodlot, CF WLS, CF paddy, etc)	Machinery and Equipment 1. Boat(s) 2. Vehicle(s) 3. Other equipment would be provided if necessary upon mutual agreement.	1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
1-7 Implement various Mangrove CF capacity strengthening programs to enhance the income levels of the CFUSGs. user group in the selected villages in partnership with Cooperating Agencies such as Department of Fisheries (DOF), Myanmar Agriculture Service (MAS), and other institutions.		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
1-8 Establish Monitoring and evaluation system for implementation of the CF Management Plans formulated by the user groups		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
1-9 Conduct impact survey regarding the effects of CF on the livelihoods of the selected communities, the CFUSGs		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-1 Identify necessary activities for CF management ^(*) and CF extension/ support ^(*) for the first phase by each Reserved Forest (RF) based on the review of the CF contents of the Integrated Mangrove Management Plan (IMMP) phase I, specifying the activities covered by the Project		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-2 Confirm the various roles and responsibilities of the technical members of CF Task Force (MCFTF) (*) at each level to implement the IMMP, the identified activities		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-3 Assess the needs of the technical MCFTF organization related to the integrated mangrove management (e.g. financial, logistics and human resource development needs) to fulfill the identified activities for action by the FD		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-4 Review the institutional system related to the integrated mangrove management and support development of the system (new organization, mandate, budget, etc) => To Activity 2.10		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-5a Develop training plan & materials technical MCFTF on the standard operational procedures for CF management and CF extension/ support for the mangrove forests based on the assessment of human resource development needs conducted in 2.3		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-6b Train FD staff the technical MCFTF according to the training plan on CF and integrated mangrove management including technology exchange program at third countries through collaboration with multi or bilateral donors.		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-6 Construct/renovate the CF Extension Center & Nursery in each RF (Avf Nargis, conducted as Activity X.4) ← From Activity 3.3 of PDM1		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-7 Train CF user group related to the integrated mangrove management and CF activities Provide extension services/support identified in 2.1 to the CFUSGs in each RF		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-8 Carry out public information awareness campaigns regarding CF and the conservation of mangrove forests, including patrol ← From Activity 4.6&4.8 of PDM1		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-8g Draft detailed SOP for CF for the mangrove forests based on the CFI and the "Department instructions" of FD as well as feedbacks from the Project activities		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
2-10 Review the institutional system related to the integrated mangrove management and support development of the system Develop post-project strategy for CF management & CF extension/support (new organization, mandate, budget, etc) ← From Activity 2.4 of PDM1		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
3-1 Conduct surveys for identification of silvicultural techniques for both community and non-community forestry with respect to the eco-geographical / management zones in the Ayeyawady Delta including recovery condition of mangrove vegetation from damage of cyclone Nargis. (→ To Activity X.5)		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
3-2 Prepare the specific AR test designs with respect to the identified silvicultural models techniques (e.g. seedling production, planning designs and methods, thinning, pruning, forest management nursery, planting and natural forest operation techniques)		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).
3-3 Prepare the facilities (e.g. nurseries) for integrated mangrove management and for attaining support recovery from damage of the cyclone Nargis. (→ To Activity 2.6 & Output X)		1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).



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ANNEX 1-2 Modification made in the PDME (Addition to the draft PDM1 is shown as underlined and deletion as struck-through)

<p>3-4-3 Prepare photo and test materials (e.g. seeds, seedlings) and Execute the AR tests.</p> <p>3-5-4 Conduct periodic technical monitoring / preliminary assessment on the AR plantation (ARP)</p> <p>3-5 Prepare a technical report on AR tests findings</p> <p>3-6 Prepare draft technical guidelines for silvicultural techniques for rehabilitation of mangrove and its associated forests based on the findings of the AR tests activities</p> <p>2-7 Support recovery of implementation Body, material supply for recovery work of damaged mangrove of development of river bank / Coastal woodlot (→ Output X (X.4)) da</p> <p>4-1 Formulate an inter-disciplinary agency committee, consisting of relevant authorities (e.g. agriculture, fisheries, settlement and land records) at the District level to examine the underlying causes for mangrove deforestation in the Ayeyawady Delta.</p> <p>4-2 Update the most recent land use information on periodic basis based on the up-to-date satellite images for discussion by the committee members, including overall forest resource assessment of the region and mangrove forest conversion.</p> <p>4-3 Prepare hazard map based on analysis of damage of the cyclone Nargis (→ To Activity X.1)</p> <p>4-4-3 Conduct coordination among the committee members upon demand to coordinate instructions for the implementation of appropriate land use policies.</p> <p>4-5-4 Organize seminars to promote synergies among the relevant sectors for the sustainable management of the mangrove ecosystem in the Ayeyawady Delta.</p> <p>4-6 Prepare material for public information (→ To Activity 2.8 & X.6)</p> <p>4-6-5 Arrange necessary coordination among donors in the integrated mangrove rehabilitation and management 4-8. Conduct public information for support integrated mangrove management including disaster prevention and patrol (→ To Activity 2.8 & X.6)</p>	<p>Local Costs</p>
<p>X-1 Prepare a hazard map based on analysis of damage of the cyclone Nargis (← From Activity 4.3 of PDM1)</p> <p>X-2 Conduct quick damage survey & recovery survey in the Target Area (← From Activity 1.2 of PDM1)</p> <p>X-3 Conduct village profile survey in the Target Area (← From Activity 1.2 of PDM1)</p> <p>X-4 Conduct surveys for recovery condition of mangrove vegetation from damage of Cyclone Nargis in the Target Area. (← From Activity 3.1 of PDM1)</p> <p>X-5 Rehabilitate the CF Extension Center and Nursery in each RF with reinforced structure that is cyclone proof (← From Activity 3.3 of PDM1)</p> <p>X-6 Support recovery or disaster prevention work of Implementation and Cooperative Organizations in the Target Area through material supply (← From Activity 3.7 of PDM1)</p> <p>X-7 Conduct public awareness activities on disaster prevention in the Target Area (← From Activity 4-5 of PDM1)</p> <p>X-8 Arrange necessary coordination among donors in the integrated mangrove rehabilitation and management in the Project Area (← From Activity 4-6 of PDM1)</p>	

*1 Estimated to be achieved IMMP phase I target of 26,000 acre mangrove plantation at 2018 after five years of the Project completion. Will be reviewed based on result of mid-term evaluation during FY2009/2010. The figure will be reviewed & finalized based on the results of the Joint Mid-term Review

*2 Estimated to be increased 6000 acre (4000 acre plantation through CF and 2000 acre plantation through action research) of mangrove forest cover when the Project completion (FY2012). Will be reviewed based on result of mid-term evaluation during FY2009/2010. "5,000 acres" is a tentative target, which was set based on the following assumptions: (i) 20 CFUSGs are organized or reorganized during FY2009.FY2011; (ii) 200 acres is rehabilitated/ managed by each of the 20 CFUSGs (200 acres X 20=4,000 acres); and (iii) a total of 2,000 acres is planted through AR. The figure will be reviewed & finalized based on the results of the Joint Mid-term Review

*3 Estimated to be rehabilitated 200-acre-of-mangrove-forest-by-each-CFUSG-and-will-be-activated-22-CFUSGs-under-the-Project (that-for-FY2008-CF-village). Will be reviewed based on result of mid-term evaluation during FY2009/2010. "4,000 acres" is a tentative target, which was set based on the following assumptions: (i) 20 CFUSGs are organized or reorganized during 2009-2011; and (ii) 200 acres is rehabilitated/managed by each of the 20 CFUSGs. The figure will be reviewed & finalized based on the results of the Joint Mid-term Review

*4 CF Management Plan, including CF Management Maps for planning land use of the village, where in which CF Plantation, paddy, residential area, etc are identified, would be prepared through introducing land use rule for applying CFI; and 2) setting land mark for delineate the land-use identified areas are delineated by putting land marks in the field.

*5 "CF management" by FD is defined as planning, supervision, monitoring and evaluation, and data organization and analysis of the activities related to CF. "CF support" consists of extension service and extension support to CF.

*6 "CF extension services" may include organization of the CFUSGs, strengthening of the organizational/management capacity of CFUSGs, provision of technical support for preparation and implementation of the CF Management Plans and income generation activities of CFUSGs, etc. "CF extension support" is defined as material support to CFUSGs, which include provision of seedlings for CF plantation delineated in the CF Management Plans, making the facilities of the CF Extension and Nursery available to the CFUSGs for their activities, etc.

*7 "Technical MCFIT" in Output 2 include the Field Project Manager and field staff (Staff Officers (SOs), Range Officers (ROs), Deputy ROs (DROs), & Foresters) relevant to the Target Area

Annex 2 PO for Evaluation (POE)

Activity as per PDME	Expected Results	Schedule													Person in charge	Other Major Inputs	Remarks	
		2007		2008		2009		2010		2011		2012		13				
		MFY&JFY2007	Apr-Jul Sep-Dec	Jan-Apr Oct-Dec	May-Aug Feb-May	Jun-Sep Mar-Jun	Oct-Dec Jul-Oct	Jan-Apr Sep-Dec	May-Aug Feb-May	Jun-Sep Mar-Jun	Oct-Dec Jul-Oct	Jan-Apr Sep-Dec	May-Aug Feb-May					
Output 1: The selected communities practice environmentally and economically sustainable community forestry (CF).																		
1.1 Select villages to introduce CF from the ones that express interest.	n/a	Before Nargis	Cyclone Nargis	Batch I	Batch II	Batch III	Batch IV								Project Coordinator (PC)	JE: Chief Advisor (CA)	Initial plan (Principle activities) Initial plan (Follow up activities) Actual progress & current plan	
1.2 Conduct baseline survey on the basic socio-economic conditions of the selected communities.	n/a	Before Nargis													ditto	JE: PCD (participatory community development) LC: (Subcontract) - Baseline and market survey.		
1.3 Form/reorganize CF user groups (CFUGs) in the selected communities	n/a	Before Nargis		I	II	III	IV								ditto	JE: PCD		
1.3.1 Mobilize the selected communities																		
1.3.2 Conduct introductory meeting on CF																		
1.3.2 Facilitate formation/reorganization of CFUGs																		
1.4 Assist the CFUGs in preparing/updating CF Management Plans and proposals for CF certificates through participatory process/residential area, etc.	n/a	Before Nargis		I	II	III	IV								ditto	JE: PCD Eq/GPS, Soals (passenger and cargo)	CF Management Plans are to be developed/updated and approved prior to the beginning of the planting season in June	
1.5 Issue CF certificate based on the proposal	n/a														Director of AYW	JE: PCD	No Certification yet for Project CF target villages which submitted proposals. Proposals remained at District Office	
1.6 Assist the CFUGs in rehabilitating and managing the mangrove forests as per the certified CF Management Plans	n/a														FPM	JE: PCD (MF:mangrove forestry +Ma-marketing)		
1.6.1 Assist the CFUGs I (7 in total)	n/a			Planting Maintenance											ditto			
1.6.2 Assist the CFUGs II (6 in total)	n/a			Planting Maintenance											ditto			
1.6.3 Assist the CFUGs III	n/a			Planting Maintenance											ditto			
1.6.4 Assist the CFUGs IV	n/a			Planting Maintenance											ditto			

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Annex 2 PO for Evaluation (POE)

Activity as per PDME	Expected Results	Schedule													Person in charge	Implementation	Other Major Inputs		Remarks					
		2007			2008			2009			2010			2011			2012							
		MFY	Jul	Dec	MFY	Jul	Dec	MFY	Jul	Dec	MFY	Jul	Dec	MFY			Jul	Dec		MFY	Jul	Dec		
2.4 Develop training plan & materials for CF extension service and support for the mangrove forests based on the needs for human resources development identified in 2.3	n/a																				Japanese	Memmar		
2.4.1 Develop overall training plan and training materials	n/a																					ditto		Training may include OJT training through existing CF training course, and development of CF training program for mangrove.
2.4.2 Update the training materials based on feedbacks	n/a																					ditto		
2.5 TrainFD staff based on the plan.	n/a																					FPM		
2.5.1 Implement & monitor the training program	n/a																					ditto		
2.5.2 Evaluate the training program & conduct the follow-up as appropriate	n/a																					ditto		
2.6 Construct/renovate facilities for CF Extension and Nursery in each RF (A/F Narigis, conducted as Activity X.4)	KKKL: Renovation TYK: Renovation BYM: Renovation TGT: Construction, HKT: Construction																					FPM		KKKL: Kwa Kwa Ka Lay CFEON TYK: Thar Yar Kome CFEON BYM: Byone Hmye CFEON TGT: Hlaung Gyi Tan CFEON HKT: Hngat Kyi Taung CFEON
2.7 Provide extension services and support to the CFUSGS	n/a																					FPM		
2.7.1 Develop extension materials																						ditto		
2.7.2 Implement extension services & support (i.e. Activity 1-3-1.7)																						ditto		
2.8 Carry out public awareness campaigns regarding CF and the conservation of mangrove forests/conservation of mangrove forests	n/a																					FPM		
2.9 Draft detailed standard operational procedures for CF for the mangrove forests.	n/a																					PC		
2.9.1 Develop an initial draft	n/a																					ditto		
2.9.2 Finalize the draft	n/a																					ditto		
2.11 Develop post-project strategy for CF management and CF extension & support	n/a																					?		

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Annex 3 Accomplishment of the Project

I Accomplishment of Inputs

Plan as per PDME	Source/ Method	Results
1 Myanmar side		
1.1 Personnel (Members of CF Task Force) (1)Project Director (2)Project Manager (3)Project Coordinator (4)Field Project Manager (5)Other members of CF Task Force (6)Other personnel mutually agreed upon as necessary	Review of record of Inputs (RMA)	At present, a total of 26 staff members of the FD are assigned as the Project Personnel. (For details, please see RM A-1)
1.2 Land and building (1)Office building and facilities necessary for the implementation of the Project (2)Office space and necessary facilities for the Japanese experts and related staff members (3)Land for the action research (4) Jetty and space necessary for storage of boats and vehicles (5)Other facilities mutually agreed upon as necessary	ditto	Land and building has been provided in timely manner.
1.3 Local Operational Costs Minimum of US\$100,000 equivalent in 5 years	ditto	In Myanmar FY 2007-2010, the budget equivalent to US \$97,000 were allocated for the local operational costs for the Project, apart from the salaries for the project personnel. Major items include costs for construction of the Project Office in MYM, Action Research Plantation (ARP), seedlings for CF Plantation, etc. (For details, please see RM A-2)
2 Japanese side		
2.1 Experts (1)Chief Advisor (2)Participatory community development (3)Mangrove forestry (4)Coordinator (5) Other experts in specific fields (e.g. Extension, GIS, Agroforestry, Fish culture, Forestry Value-added Production, Marketing and Distribution) upon mutual agreement	Review of record of Inputs (RMB)	As of September 2010, a total of 10 Experts (91.94m/m) in the following fields had been dispatched: (i) Chief Advisor, (ii) Participatory Community Development/Coordinator, (iii) Mangrove Forestry I, (iv) Mangrove Forestry II/Agroforestry, (v)GIS I, (vi) GIS II, (vii) Training/Extension, (viii) Fish Culture, (ix) Marketing, and (x) Coordinator (For details, please see RM B-1)
2.2 Machinery & equipment (1) Boat(s) (2) Vehicle(s) (3) Other equipment would be provided if necessary upon mutual agreement.	ditto	So far, the equipment equivalent to 21.3 million Japanese Yen has been provided. Major items include boats, vehicles, GIS software, satellite images, total stations, photocopy machines, generators, etc. (For details, please see RM B-2)
2.3 Training in Japan	ditto	So far, 8 staff members of the FD (i.e. members of CF Task Force) have been trained in Japan. (For details, please see RM B-3)
2.4 Local cost	ditto	As of September 2010, approximately 138.1 million Japanese Yen, equivalent to approximately US\$ 1.5 million, had been disbursed as local administrative and operational costs. Major items include costs for rehabilitation of CF Centers for Extension and Nursery (CFCENs), training costs for technical exchange programs in Thailand and Vietnam, salaries for local staff, etc. (For details, please see RM B-4)

Annex 3 Accomplishment of the Project

II Accomplishment of Outputs

(1) Output X (Additional Output created in response to the damage caused by the Cyclone Nargis in May 2008): Recovery from the damage of the Cyclone Nargis is promoted:

Objectively Verifiable Indicators(PDM)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)																									
Xa: By March 2009, a hazard map of the Target Area is developed based on the latest satellite images for distribution to the stakeholders.	Project reports	<p>An initiated hazard map was developed in March 2009 based on the latest satellite images (i.e. ALOS/AVNIR 2 (2008)). The map was finalized in August 2009. Its copies have been distributed to the stakeholders, including the members of the CFUSGs supported by the Project, the relevant Village Tracts, and local & central government agencies.</p> <p><Conclusion> The Indicator has been already achieved.</p>																									
Xb By March 2010, the results of damage & recovery survey on the communities in the Target Area is compiled	ditto	<p>Total of five recovery surveys (i.e. one rapid damage survey and four recovery monitoring surveys) on the communities in the Target Area were conducted from 2008-2010. A report on the results of the damage survey was prepared in June 2008, which was uploaded to the web-site of the Project as well. Results of the recovery monitoring had been compiled by March 2010, which has been utilized in the Project reports</p> <p><Conclusion> The Indicator Xb has been achieved as planned.</p>																									
Xc By March 2010, Centre for CF Extension & Nursery in each RF is rehabilitated with reinforced structure that is cyclone proof.	ditto	<p><Background></p> <ul style="list-style-type: none"> > <u>Before the Cyclone</u>: As per the original plan, three existing CFECNs in 3 RFs (i.e. KYK, PYNL, & KDK) were to be renovated; and a new CFECN to be constructed in the other RF (i.e.PYDY) through the Project. By March 2008, two existing CFECN had been renovated and a new one had been constructed as scheduled. > <u>Immediately after the Cyclone</u>: Due to the damage caused by the Cyclone, the facilities of each CFECN were severely or completely destroyed. Based on the results of the damage surveys, it was decided to rehabilitate/re-construct the damaged facilities of all the CFECNs with reinforced structure which would be more cyclone-resistant. <p><Results> Rehabilitation of 4 CFCENs was completed in July 2010. Completion was delayed for 4 months due to (i) unsuccessful tender in March 2009; and (ii) shortage of construction materials and transportation boats resulted from a boom in public recovery works in the stricken areas.</p> <p><Conclusion> Although there was a delay, the Indicator Xc has been already achieved.</p>																									
Xd In 2009 & 2010, materials necessary for disaster recovery or prevention work are provided to the FD and the Cooperating Agencies based on the needs	ditto	<p>Following materials and equipment have been provided in order to assist disaster recovery or prevention work of the FD and the Cooperating Agencies.</p> <p>Table 1: Materials and equipment provided for disaster recovery & prevention</p> <table border="1"> <thead> <tr> <th></th> <th>Year</th> <th>Organization</th> <th>Item</th> <th>Purpose</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2009</td> <td>FD</td> <td>Boats</td> <td>For replacement of the boats destroyed by the Cyclone</td> </tr> <tr> <td>2</td> <td>2009</td> <td>FD</td> <td>Cargo Boats</td> <td>For transportation of materials for disaster recovery</td> </tr> <tr> <td>3</td> <td>2009 & 2010</td> <td>FD</td> <td>Seedlings of <i>Acasia spp.</i> & <i>Eucalyptus spp</i></td> <td>For windbreak and river bank stabilization (also for firewood & poles)</td> </tr> <tr> <td>4</td> <td>2009 &</td> <td>MAS</td> <td>Coconut seedlings</td> <td>For distribution to the target villages where the damage to</td> </tr> </tbody> </table>		Year	Organization	Item	Purpose	1	2009	FD	Boats	For replacement of the boats destroyed by the Cyclone	2	2009	FD	Cargo Boats	For transportation of materials for disaster recovery	3	2009 & 2010	FD	Seedlings of <i>Acasia spp.</i> & <i>Eucalyptus spp</i>	For windbreak and river bank stabilization (also for firewood & poles)	4	2009 &	MAS	Coconut seedlings	For distribution to the target villages where the damage to
	Year	Organization	Item	Purpose																							
1	2009	FD	Boats	For replacement of the boats destroyed by the Cyclone																							
2	2009	FD	Cargo Boats	For transportation of materials for disaster recovery																							
3	2009 & 2010	FD	Seedlings of <i>Acasia spp.</i> & <i>Eucalyptus spp</i>	For windbreak and river bank stabilization (also for firewood & poles)																							
4	2009 &	MAS	Coconut seedlings	For distribution to the target villages where the damage to																							

Annex 3 Accomplishment of the Project

Objectively Verifiable Indicators(PDM)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)			
			2010		the coconut trees for agroforestry were severe
		5	2010	FD	CDMA telephones for CFCENS
		6	2010	FD	TV & Video sets for CFCENS
					For replacement of the radio telephones destroyed by the Cyclone
					For public awareness on disaster prevention
		<p align="center"><Conclusion></p> <p>The Indicator Xd has been achieved as planned</p>			
Xe By Dec 2011, data on recovery condition of mangrove vegetation is compiled	ditto	<p>Recovery survey of mangrove vegetation was conducted in total of 42 survey plots located in 5 locations, where damage of the Cyclone was severe. The monitoring was continued up to January 2010. The monitoring results are being compiled, which would be utilized in developing the technical guidelines for the silviculture techniques for rehabilitation of mangrove (i.e. Output 3). The monitoring results have been utilized in planning of AR tests, too.</p> <p align="center"><Conclusion></p> <p>The steady progress has been made. The Indicator Xe has been mostly achieved and is likely to be achieved by December 2011.</p>			

(2) **Output 1**: The selected communities practice environmentally and economically sustainable community forestry (CF).

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)																												
1a By the Project end, more than 4,000 acres (1,600 ha) of mangrove forests are rehabilitated and managed by the CFUSGs organized/reorganized during 2009-2011 based on the certified CF Management Plans.(i.e. CF plantation)	ditto	<p align="center"><Definition></p> <p>According to the personnel concerned with the Project, "rehabilitation" of the degraded area is a part of CF "management". Other major "management" would include "maintenance" of the rehabilitated area; and Natural Forest Improvement Operation (NFIO) when applicable.</p> <p>Note: NFIO was not taken into account in calculating the planned value of the Indicator.</p> <p align="center"><Background></p> <p>> Organization of the CFUSGs: In 2009 and 2010, a total of 11 CFUSGs were organized/re-organized at the Target Villages re-selected after Cyclone Nargis. Among the 11 target CFUSGs, eight were newly organized through the Project while the other three were the pre-existing ones that had been initially organized prior to the Project.</p>																												
<p>"(note3) "4,000 acres" is a tentative target, which was set based on the following assumptions: (i) 20 CFUSGs are organized or reorganized during 2009-2011; and (ii) 200 acres is rehabilitated/managed by each of the 20 CFUSGs. The figure will be reviewed & finalized based on the results of the Joint Mid-term</p>		<p align="center">Table 2: CFUSG organized/re-organized after the Cyclone</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>1st batch of CGUSGs</th> <th>2nd batch of CFUSGs</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>No. of Target Villages selected</td> <td>7 (Feb 2009)</td> <td>5 (Oct 2009)</td> <td>12</td> </tr> <tr> <td>2</td> <td>No. of CFUSGs organized through the Project</td> <td>5</td> <td>3 (Mar-Sep 2010)</td> <td>8</td> </tr> <tr> <td>3</td> <td>No. of pre-existing CFUSGs reorganized through the Project</td> <td>2</td> <td>1</td> <td>3</td> </tr> <tr> <td>4</td> <td>No. of CFUSGs yet to be organized</td> <td>0</td> <td>1</td> <td>1</td> </tr> </tbody> </table> <p>For reference, the Project has withheld further selection of the Target Villages and (re)organization of CFUSGs, considering the remaining period and the available resources of both Myanmar and Japanese</p>						1st batch of CGUSGs	2nd batch of CFUSGs	Total	1	No. of Target Villages selected	7 (Feb 2009)	5 (Oct 2009)	12	2	No. of CFUSGs organized through the Project	5	3 (Mar-Sep 2010)	8	3	No. of pre-existing CFUSGs reorganized through the Project	2	1	3	4	No. of CFUSGs yet to be organized	0	1	1
		1st batch of CGUSGs	2nd batch of CFUSGs	Total																										
1	No. of Target Villages selected	7 (Feb 2009)	5 (Oct 2009)	12																										
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Annex 3 Accomplishment of the Project

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)																																																																																					
Review		<p>sides.</p> <ul style="list-style-type: none"> ➤ <u>Preparation of the CF Management Plans</u>: The CF Management Plans for newly organized 8 CFUSGs were prepared in 2009 and 2010. On the other hand, the CF Management Plans of the 3 pre-existing CFUSGs, which were prepared and certified 7~15 years ago, have not been updated yet though the natural and socio-economic conditions have been changed due to the damage caused by the Cyclone Nargis. ➤ <u>Certification of the CF Management Plans</u>: All the 8 CF Management Plans, prepared through the Project, have been submitted to the District Forest Office for review and certification. None of them, however, has been certified yet because the District Forest Office opts for monitoring and confirming the participation & performance of the CFUSGs before issuing the CF certificates, considering poor performance of other CFUSGs in the Target Area in the past. <p style="text-align: center;">Table 3: Progress of CF Management Plan development</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th></th> <th>1st batch of CFUSGs</th> <th>2nd batch of CFUSGs</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>No of new MP prepared through the Project ye to be certified</td> <td>5 (May-Sep 2009)</td> <td>3 (Jul-Dec 2010)</td> <td>8</td> </tr> <tr> <td>2</td> <td>No of pre-existing MP yet to be updated</td> <td>2</td> <td>1</td> <td>3</td> </tr> <tr> <td>3</td> <td>Total</td> <td>7</td> <td>4</td> <td>11</td> </tr> </tbody> </table> <p>Note: During a series of discussions with the Mid-term Review Team, the FD confirmed that CF Management Plans would be reviewed certified as per the CFI</p> <p><Results></p> <ul style="list-style-type: none"> ➤ <u>Rehabilitation by the CFUSGs</u>: So far, a total of 690 acres has been rehabilitated: 615 acres has been rehabilitated by the 8 CFUSGs based on their yet-to-be certified CF Management Plans and the other 75 acres by the other three based on the yet-to-be updated pre-existing CF Management Plans. <p style="text-align: center;">Table 4: Progress of rehabilitation by the CFUSGs</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Area of Rehabilitation</th> <th>1st batch (7 CFUSGs)</th> <th>2nd batch (4 CFUSGs)</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Planned area (acres)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>a</td> <td>As per the MP developed through the Project (8 in total)</td> <td>983</td> <td>135</td> <td>1,118</td> </tr> <tr> <td>b</td> <td>As per the pre-existing MP yet to be updated (3 in total)</td> <td>n/a</td> <td>40</td> <td>n/a</td> </tr> <tr> <td>c</td> <td>Total area to be rehabilitated</td> <td>n/a</td> <td>175</td> <td>n/a</td> </tr> <tr> <td>2</td> <td>Rehabilitated area (acres)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>a</td> <td>By the CFUSGs with the MP developed through the Project</td> <td>480</td> <td>135</td> <td>615</td> </tr> <tr> <td>b</td> <td>By the CFUSGs with the pre-existing MP yet to be updated</td> <td>50</td> <td>25</td> <td>75</td> </tr> <tr> <td>c</td> <td>Total area rehabilitated</td> <td>530</td> <td>160</td> <td>690</td> </tr> <tr> <td>3</td> <td>Achievement rate</td> <td></td> <td></td> <td></td> </tr> <tr> <td>a</td> <td>The new MP developed through the Project</td> <td>49%</td> <td>100%</td> <td>55%</td> </tr> <tr> <td>b</td> <td>The pre-existing MP yet to be updated</td> <td>n/a</td> <td>62.5%</td> <td>n/a</td> </tr> <tr> <td>c</td> <td>Average rate of achievement</td> <td>n/a</td> <td>91%</td> <td>n/a</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ➤ <u>Maintenance of the rehabilitated area by the CFUSGs</u>: According to 			1st batch of CFUSGs	2nd batch of CFUSGs	Total	1	No of new MP prepared through the Project ye to be certified	5 (May-Sep 2009)	3 (Jul-Dec 2010)	8	2	No of pre-existing MP yet to be updated	2	1	3	3	Total	7	4	11	Area of Rehabilitation		1st batch (7 CFUSGs)	2nd batch (4 CFUSGs)	Total	1	Planned area (acres)				a	As per the MP developed through the Project (8 in total)	983	135	1,118	b	As per the pre-existing MP yet to be updated (3 in total)	n/a	40	n/a	c	Total area to be rehabilitated	n/a	175	n/a	2	Rehabilitated area (acres)				a	By the CFUSGs with the MP developed through the Project	480	135	615	b	By the CFUSGs with the pre-existing MP yet to be updated	50	25	75	c	Total area rehabilitated	530	160	690	3	Achievement rate				a	The new MP developed through the Project	49%	100%	55%	b	The pre-existing MP yet to be updated	n/a	62.5%	n/a	c	Average rate of achievement	n/a	91%	n/a
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2	No of pre-existing MP yet to be updated	2	1	3																																																																																			
3	Total	7	4	11																																																																																			
Area of Rehabilitation		1st batch (7 CFUSGs)	2nd batch (4 CFUSGs)	Total																																																																																			
1	Planned area (acres)																																																																																						
a	As per the MP developed through the Project (8 in total)	983	135	1,118																																																																																			
b	As per the pre-existing MP yet to be updated (3 in total)	n/a	40	n/a																																																																																			
c	Total area to be rehabilitated	n/a	175	n/a																																																																																			
2	Rehabilitated area (acres)																																																																																						
a	By the CFUSGs with the MP developed through the Project	480	135	615																																																																																			
b	By the CFUSGs with the pre-existing MP yet to be updated	50	25	75																																																																																			
c	Total area rehabilitated	530	160	690																																																																																			
3	Achievement rate																																																																																						
a	The new MP developed through the Project	49%	100%	55%																																																																																			
b	The pre-existing MP yet to be updated	n/a	62.5%	n/a																																																																																			
c	Average rate of achievement	n/a	91%	n/a																																																																																			

Annex 3 Accomplishment of the Project

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)															
		<p>field confirmation of the FD staff, the rehabilitated area has been kept intact so far.</p> <p style="text-align: right;">(See RM C-1 for more data)</p> <p><Conclusion> The current Indicator has been partly achieved. The “planned value” of the Indicator (i.e. 4000 acres), which was calculated from the assumptions that (i) 20 CFUSGs are organized or reorganized during 2009-2011; and (ii) 200 acres is rehabilitated/managed by each of the 20 CFUSGs, would not be achieved by the Project end because (i) the number of CFUSGs organized/reorganized during 2009-2011 would remain about a half of the one mentioned in the assumption ; and (ii) as per the CF Management Plans developed through the Project, average area to be rehabilitated by each of the CFUSGs within the Project period is less than 70 % of the one mentioned in the assumption.</p> <p><Evaluator’s note for the planned value> The planned value of the Indicator 1b (i.e. 4,000 acres), which was calculated from the assumptions as of January 2009, need to be replaced with the more practical one based on the actual plans indicated in the certified CF Management Plans of the target CFUSGs. In calculating the planned value, the area to be managed through NFIO should be taken into account. (For reference, all of the CF Management Plans under the jurisdiction of Laputta Township Office have NFIO component)</p> <p>The actual planned value (i.e. total area to be rehabilitated by the entire target CFUSGs within the Project period), however, is not clear at present because (i) the pre-existing CF Management Plans have not yet been updated.; and (ii) the CF Management Plans have not been certified yet.</p>															
<p>1b By the Project end, all active CFUSGs organized/reorganized during 2009—2011 gain profit from CF activities determined in the certified CF Management Plans & income generation activities supported by the Project.</p>	<p>Project reports</p>	<p><Background></p> <ul style="list-style-type: none"> ➤ <u>Before the Cyclone:</u> Promotion of fast-growing species that can be used/sold as firewood/poles, agroforestry, and aquaculture were identified as income generating activities for the CFUSGs as shown in the table below. <p style="text-align: center;">Table 5: Income generation activities examined by the Project</p> <table border="1"> <thead> <tr> <th></th> <th>Activities</th> <th>Examples</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Fast-growing species with market value(*1)</td> <td><i>Melaleuca</i> (for firewood, poles) <i>Casuarina equisetifolia</i> (ditto)</td> </tr> <tr> <td>2</td> <td>Agriculture</td> <td>Salinity resistant paddy spp.</td> </tr> <tr> <td>3</td> <td>Agroforestry</td> <td>Pepper production under coconut trees as shade</td> </tr> <tr> <td>4</td> <td>Aquaculture</td> <td>Oyster culture Aqua-agroforestry</td> </tr> </tbody> </table> <p>(*1)Promotion of fast-growing species would be initiated after the results of the relevant Action Research (AR) tests become available</p> <ul style="list-style-type: none"> ➤ <u>After the Cyclone:</u> Promotion of agroforestry has been suspended because the coconut trees in the Target Area were severely damaged by the Cyclone. <p><Results></p> <ul style="list-style-type: none"> ➤ <u>Fast-growing species with market value:</u> AR tests on <i>Melaleuca</i> and <i>Casuarina equisetifolia</i> are ongoing under Output 3. Utilizing the findings of the AR tests, the Project plans to start promotion of in the coming rainy season. Since <i>Melaleuca</i> and <i>Casuarina equisetifolia</i> grows to marketable size in one-two years (as firewood) if the conditions are favorable, those who would participate in planting of the fast-growing species might be able to start gaining profits by the end of the Project. 		Activities	Examples	1	Fast-growing species with market value(*1)	<i>Melaleuca</i> (for firewood, poles) <i>Casuarina equisetifolia</i> (ditto)	2	Agriculture	Salinity resistant paddy spp.	3	Agroforestry	Pepper production under coconut trees as shade	4	Aquaculture	Oyster culture Aqua-agroforestry
	Activities	Examples															
1	Fast-growing species with market value(*1)	<i>Melaleuca</i> (for firewood, poles) <i>Casuarina equisetifolia</i> (ditto)															
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Annex 3 Accomplishment of the Project

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)																																																		
		<p>➤ <u>Aquaculture</u>: At present, oyster culture is practiced by sub-groups of 5 CFUSGs on trial basis. Marketing and distribution tests are planned in the coming rainy season. The Project hopes that all the sub-groups of the 5 CFUSGs would be able to harvest marketable size of oysters and to make some profits by the Project end. It is noted that oyster culture has been practiced based on a verbal agreement on water surface use license between the Project and the DOF, which is valid for the Project period.</p> <p style="text-align: center;">Table 6: Outline of oyster-culture trial</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th></th> <th>1st batch</th> <th>2nd batch</th> <th>Total/ average</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>No. of CFUSGs which have sub-groups for oyster culture trial</td> <td>4</td> <td>1</td> <td>5</td> </tr> <tr> <td>2</td> <td>Timing of the first harvest</td> <td>Jun-Sep 2011</td> <td>Jun-Sep 2012</td> <td style="text-align: center;">/</td> </tr> <tr> <td>3</td> <td>No of sub-group members</td> <td>67</td> <td>32</td> <td>89</td> </tr> <tr> <td>4</td> <td>No of members of mother CFUSGs</td> <td>156~295</td> <td>100</td> <td>256 ~395</td> </tr> <tr> <td>5</td> <td>% of number of sub-group members to the mother group members</td> <td>23%~43%</td> <td>32%</td> <td>23% ~35%</td> </tr> </tbody> </table> <p>In addition, aqua-agroforestry is practiced by a sub-group of one CFUSG on trial basis as a means for livelihood improvement</p> <p style="text-align: center;">Table 7: Outline of aqua-agroforestry trial</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th></th> <th>1st batch of CFUSGs</th> <th>2nd batch CFUSGs</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>No. of CFUSGs</td> <td>1</td> <td>0</td> <td>1</td> </tr> <tr> <td>2</td> <td>No of sub-group members</td> <td>6</td> <td>0</td> <td>6</td> </tr> <tr> <td>3</td> <td>Timing of the first harvest</td> <td>Mar 2010</td> <td style="text-align: center;">/</td> <td style="text-align: center;">/</td> </tr> </tbody> </table> <p style="text-align: right;">(See RM C-2 for more data)</p> <p>➤ <u>CF activities delineated in the CF Management Plans</u>: Income generation support based on the CF Management Plans, however, has not been seriously examined by the Project so far. It is noted that all of the five CFUSGs in Laputta (KYK and PYNL RF) have NFIO component in their CF Management Plans and sustainable extraction of forest products is allowed by the CFI.</p> <p><Conclusion> It is still early to assess the achievement of the Indicator.</p>			1 st batch	2 nd batch	Total/ average	1	No. of CFUSGs which have sub-groups for oyster culture trial	4	1	5	2	Timing of the first harvest	Jun-Sep 2011	Jun-Sep 2012	/	3	No of sub-group members	67	32	89	4	No of members of mother CFUSGs	156~295	100	256 ~395	5	% of number of sub-group members to the mother group members	23%~43%	32%	23% ~35%			1 st batch of CFUSGs	2 nd batch CFUSGs	Total	1	No. of CFUSGs	1	0	1	2	No of sub-group members	6	0	6	3	Timing of the first harvest	Mar 2010	/	/
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3	Timing of the first harvest	Mar 2010	/	/																																																

(3) Output 2: The management and the support system of the Forest Department (FD) for CF is effective.

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)
2a At the end of the Project, more than 80% of all registered members of the CFUSGs	Project reports	<p>No information was available. Definition of "active" members is not clear, either. Moreover, the registered members are not clear for some CFUSGs.</p> <p><Conclusion></p>

Annex 3 Accomplishment of the Project

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)
organized/reorganized during 2009-2011 are active		The achievement level of the Indicator 2a cannot be assessed because of unavailability of the relevant data. Note: The Indicator 2a is considered to be irrelevant as an Indicator to measure the achievement of the Output 2 since activeness of the members of the CFUSGs is affected by various factors aside from management & support by the FD.
2b Each year, new communities continue to express interest in organizing CFUSGs.	ditto	No information was available <Conclusion> The achievement level of the Indicator 2b cannot be assessed because unavailability of the relevant data. Note: The Indicator 2a is considered to be irrelevant as an Indicator to measure the achievement of the Output 2 since the interests of the communities for CF is affected by various factors aside from management & support by the FD.

(4) **Output 3:** Some silvicultural techniques for the rehabilitation and the management of the mangrove and its associated forests for the Ayeyawady Delta are established.

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)																		
3a By the Project end, a technical report on Action Research (AR) is prepared in English and Myanmar	Project reports	Technical monitoring on Action Research (AR) on the silviculture techniques has been conducted on periodic basis. Monitoring reports have been produced as appropriate. A technical report, compiling the results of AR monitoring, is planned to be developed by October 2012 (in English and Myanmar). It is expected the report will be published by the end of the Project. <Conclusion> Steady progress has been made. It is expected that the Indicator 3a would be achieved by the Project end.																		
3b By the Project end, technical guidelines for silvicultural techniques for rehabilitation of mangrove and its associated forests in Ayeyawady Delta, which is developed based on AR findings, is published (in English and Myanmar)	Project reports	Development of a preliminary draft is ongoing, which is expected to be ready by the end of March 2011. The draft guidelines are expected to be developed by September 2011, which <table border="1" style="margin-left: auto; margin-right: auto;"> <caption>Table 8: Tentative schedule for development of technical guidelines</caption> <thead> <tr> <th></th> <th style="text-align: center;">Major steps</th> <th style="text-align: center;">Tentative Schedule</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Development of a preliminary draft</td> <td>By March 2011</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Development of the draft guidelines</td> <td>By September 2011</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Finalize the guidelines</td> <td>By October 2012</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Approval of the guidelines by JCC</td> <td>By March 2013</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Distribution of the guidelines to**</td> <td>By March 2013</td> </tr> </tbody> </table> <Conclusion> The Indicator 3b is partly achieved and is expected to be achieved by the Project end.		Major steps	Tentative Schedule	1	Development of a preliminary draft	By March 2011	2	Development of the draft guidelines	By September 2011	4	Finalize the guidelines	By October 2012	5	Approval of the guidelines by JCC	By March 2013	6	Distribution of the guidelines to**	By March 2013
	Major steps	Tentative Schedule																		
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5	Approval of the guidelines by JCC	By March 2013																		
6	Distribution of the guidelines to**	By March 2013																		

(5) **Output 4:** A coordination mechanism is established among key sectors to address the underlying causes of mangrove deforestation in the Ayeyawady Delta.

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)
4a Inter-agency committee is officialized	Authorities' letter of announcement	The Inter-agency committee has not been formulated /officialized yet because both Myanmar and Japanese sides were too much occupied with the bulky disaster recovery works, in particular rehabilitation of 4 CFCENs, which was caused by the Cyclone Nargis, an external condition beyond the control of the Project. Moreover, the Project has found it administratively difficult to formulate an

Annex 3 Accomplishment of the Project

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)
		<p>official and permanent inter-agency committee meeting at regional level</p> <p>For reference, the Project plans to materialize regular inter-agency project coordination meeting at regional level, which has been already approved by the JCC, as a start.</p> <p><Conclusion> No achievement has been made</p>
4b Land use information of the Target Area is updated for discussion by the committee (based on the satellite images of 2007, 2009 and 2012)	Project reports	<p>As planned, a land use map, using satellite images (LANDSAT-ETM+) was produced in 2007. The land use information was updated using ALOS/AVNIR images in 2009. It is expected that the land use information would be updated using ALOS/AVNIR images in 2012.</p> <p>The update information has not been utilized as expected because the delay of formulation of the Inter-Agency Committee (See the results of the Indicator 4a). Meanwhile, the land use maps updated in 2007 and 2009 have been utilized for public awareness activities under Output 2. The posters, newsletters, etc. including land use information has been distributed to the relevant government organizations among others.</p> <p><Conclusion> Steady progress has been made. It is likely that the Indicator would be achieved as planned.</p>
4c Specific recommendations are made and/or actions are taken by the Committee.	Meeting reports	<p>Since the inter-agency committee has not been formulated, neither specific recommendations have been made nor actions have been taken.</p> <p><Conclusion> No achievement has been made due to delay of the achievement of Indicator 4a. It is not certain if the Indicator 4d would be achieved by the end of the Project</p>
4d Seminars to promote synergy among the relevant sectors are organized annually	Project reports	<p>Seminars to promote synergy among the relevant sectors have been organized every year. (See RM C-3 for more data)</p> <p><Conclusion> Steady progress has been made. It is likely that the Indicator would be achieved by the Project end.</p>

III Accomplishment of Project Purpose

Project Purpose: The communities and the mangrove forests co-exist in a sustainable manner in the selected areas where project activities were implemented within the Ayeyawady Delta.

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)																
a. By the Project end, mangrove forest coverage is increased by 6,200 acres (*note2) in the selected areas where project were implemented (i.e. CF and Action Research plantation sites)	Project reports	<p>Information on the change of mangrove forest coverage was not available.</p> <p>For reference, a total of 1,816 acres has been rehabilitated/planted through CF and AR plantations as shown in the table below.</p> <p style="text-align: center;">Table 9: Area of CF and AR plantation</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Area to be rehabilitated/planted within the Project period (acre)</th> <th>Rehabilitated area so far (acre)</th> <th>% of achievement</th> </tr> </thead> <tbody> <tr> <td>CF plantation</td> <td>n/a</td> <td>690</td> <td>n/a</td> </tr> <tr> <td>AR plantation</td> <td>1,398</td> <td>1,126</td> <td>80.5%</td> </tr> <tr> <td>Total/average</td> <td>n/a</td> <td>1,816</td> <td>n/a</td> </tr> </tbody> </table> <p style="text-align: right;">(See RM C-4 for more data)</p>		Area to be rehabilitated/planted within the Project period (acre)	Rehabilitated area so far (acre)	% of achievement	CF plantation	n/a	690	n/a	AR plantation	1,398	1,126	80.5%	Total/average	n/a	1,816	n/a
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Total/average	n/a	1,816	n/a															

Annex 3 Accomplishment of the Project

Objectively Verifiable Indicators(PDME)	Source/ Method	Results (as of 1 March 2011 unless otherwise mentioned)
		<p><Conclusion> The Indicator has been partly achieved. The exact level of achievement could not be assessed due to unavailability of the relevant data.</p> <p><Evaluator's note for the planned value> The planned value of the Indicator a (i.e. 6,200 acres), which was calculated from the assumptions as of January 2009, need to be replaced with the more practical one based on the actual plans.</p> <p>The actual planned value, however, is not clear at present because (i) the pre-existing CF Management Plans have not yet been updated; and (ii) the CF Management Plans have not been certified yet.</p>
<p>b. At the end of the Project, in more than 80% of the villages, where the CF user groups (CFUSGs) were organized/reorganized during 2009-2011, the percentage of households earning less than the average income of 100,000 kyats equivalent per year (base year 2002) decrease from the base year of CF organization/reorganization.</p>	<p>Results from the CF Impact survey</p>	<p>No information was available for the Indicator b.</p> <p><Conclusion> The achievement level of the Indicator cannot be assessed because of unavailability of the relevant data.</p> <p>Note: The Indicator b is considered to be irrelevant as an Indicator to measure the achievement of the Project Purpose since household income of the villagers, including non CFUSG members, is affected by various factors which are external to the Project</p>
<p>c. At the end of the Project, among the registered members of the CFUSGs organized/reorganized during 2009-2011, more than 80% consider CF useful.</p>	<p>Results from the CF Impact survey</p>	<p>No information was available for the Indicator c.</p> <p><Conclusion> The achievement level of the Indicator cannot be assessed because of unavailability of the relevant data.</p>

Annex 4 Implementation Process

Item	Source/Methods	Findings
1 Progress of Activities		Overall: The initial PDM of the Project (PDM 0) has been modified once in order to facilitate post-Cyclone Nargis recovery. A variety of activities have been added (i.e. activities under Output X of PDME). Accordingly, Japanese Inputs have been increased from the original plan; and the Project duration has been extended for one year until March 2013. The modified PDM, accommodating the above, was approved in January 2009.
(1) Activities under Output X		The Activities defined in the POE are mostly on schedule and are expected to be completed by the end of the Project.
(2) Activities under Output 1	Review of PO, progress reports, questionnaire & interview with relevant P/P (Project personnel) and J/E (Japanese experts)	<p>Some of the Activities are on schedule, while others are behind the schedule. It is not certain if all of the planned Activities would be completed by the Project end because the expected results are not clarified.</p> <p><u>Issues/Points</u></p> <ol style="list-style-type: none"> 1. <u>Number of target CFUSGs:</u> Although the target number per se is not shown in any of the official document related to the Project, it has been generally assumed that a total of 20 CFUSGs would be formed by the Project end as one can see in the note 3 of the PDM1 (PDME). In 2009 and 2010, a total of 11 CFUSGs were reportedly "organized/re-organized" at the villages re-selected after Cyclone Nargis. Since then, the Project has withheld activities related to organization of CFUSGs, considering the remaining period of the Project and the available resources of both Myanmar and Japanese sides. 2. <u>Process of organization of CFUSGs:</u> Major steps for organization of the CFUSGs consists of (i) election of the Management Committee (MC) members, (ii) registration of the CGUSG members; and (iii) development of by-laws. A total of 11 CFUSGs have been reportedly "organized/re-organized" so far. In some CFUSGs, however, members of MCs and/or general members have not been fixed. Most of the CGUSGs have not developed the by-laws yet. 3. <u>Delay in updating the pre-existing CF Management Plans:</u> The CF Management Plans for newly organized 8 CFUSGs were prepared in 2009 and 2010. On the other hand, the CF Management Plans of the 3 pre-existing CFUSGs, which were prepared and certified 7~15 years ago, have not been updated yet though the natural and socio-economic conditions have been changed due to the damage caused by the Cyclone Nargis. 4. <u>Certification of the CF Management Plans:</u> All the 8 CF Management Plans, prepared through the Project, have been submitted to the District Forest Office for review and certification. None of them, however, has been certified yet because the District Forest Office opts for monitoring and confirming the participation & performance of the CFUSGs before issuing the CF certificates, considering poor performance of other CFUSGs in the Target Area in the past. 5. <u>Strengthening of organizational capacity of MCs/CGUSGs:</u> So far, support for organizational strengthening, which is essential for sustainability of the CFUSGs, has not been conducted sufficiently 6. <u>Incentive for the CFUSGs:</u> So far, a total of 690 acres has been rehabilitated by the CGUSGs. It is noted that, in some cases, the CFUSGs were not active enough so that part of the rehabilitation works had to be assumed by the FD staff on their behalf. According to the FD, almost all the members are subsistence farmers or fishers who depend on daily wages from casual labors for cash income. Without tangible &

Annex 4 Implementation Process

Item	Source/ Methods	Findings																																				
		<p>short-term benefits that can compensate their opportunity costs, they would not be motivated enough to participate in the activities of the CFUSGs.</p> <p>7. <u>Income generation activities</u>: It is a common view of the Project Personnel that income generation support provided by the Project is not effective as incentive since it has failed to provide the members with immediate/short-term benefits. In fact, the income generation support has not been neither designed nor implemented as integral part of the CF Management Plans. A strategic link between the current income generation support and environmentally & economically sustainable community forestry seems to be weak. Reorientation of the income generation activities needs to be considered.</p>																																				
(3) Activities under Output 2	-ditto-	<p>The Activities are mostly behind the schedule due to adverse effects posed by an external condition beyond the control of the Project (i.e. Cyclone Nargis).</p> <p><u>Issues/Points</u></p> <p>1. <u>Training program for CF Mangrove</u>: As per the original plan, an initial training program was going to be developed by September 2009, which was to be updated and finalized based on the feedbacks. Although discussions were held from time to time, the full-fledged activities have not been started yet. The Mid-term Review Team found it difficult to pin down the exact causes of the delay. An explanation provided by the Project was that both Myanmar and Japanese sides, including the Expert in charge of the Training/Extension, were so occupied with the bulky recovery works from the damage of the Cyclone Nargis, in particular rehabilitation of the 4 CFCENs, that the training related activities were left behind. Tentative schedule for development of the training program is shown below.</p> <p style="text-align: center;">Table 10: Tentative schedule for development of training program</p> <table border="1"> <thead> <tr> <th></th> <th>Major steps</th> <th>Tentative Schedule</th> <th>Relevant PDM Activities</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Identification of necessary activities for CF management & extension services</td> <td>May 2011</td> <td>2.1</td> </tr> <tr> <td>2</td> <td>Confirmation of the roles of each technical MCFTF</td> <td>ditto</td> <td>2.2</td> </tr> <tr> <td>3</td> <td>Assessment of the human resource development needs for each level of technical MCFTF</td> <td>ditto</td> <td>2.3</td> </tr> <tr> <td>4</td> <td>Development of training program, including curriculum, syllabus & training materials, based on the existing ones and the needs assessment</td> <td>Jun- 2011 Oct.</td> <td>2.4</td> </tr> <tr> <td>5</td> <td>Implementation & monitoring of training program</td> <td>Oct- 2011 Dec</td> <td>2.5</td> </tr> <tr> <td>6</td> <td>Evaluation and follow-up</td> <td>Oct-Dec 2012</td> <td>2.5</td> </tr> <tr> <td>7</td> <td>Update the training program</td> <td>Jan- 2013 Mar</td> <td>2.4</td> </tr> <tr> <td>8</td> <td>Submission to the Project Director for confirmation for further action</td> <td>Mar 2013</td> <td></td> </tr> </tbody> </table> <p>2. <u>SOP</u>: As per the original plan, a draft SOP was going to be developed by March 2010, which would be updated and finalized based on the feedbacks. Although discussions were held from time to time, the full-fledged activities have not been started yet. It was difficult to pin down the exact causes of the delay. An explanation provided by the Project is that both Myanmar and Japanese sides were so occupied with the bulky</p>		Major steps	Tentative Schedule	Relevant PDM Activities	1	Identification of necessary activities for CF management & extension services	May 2011	2.1	2	Confirmation of the roles of each technical MCFTF	ditto	2.2	3	Assessment of the human resource development needs for each level of technical MCFTF	ditto	2.3	4	Development of training program, including curriculum, syllabus & training materials, based on the existing ones and the needs assessment	Jun- 2011 Oct.	2.4	5	Implementation & monitoring of training program	Oct- 2011 Dec	2.5	6	Evaluation and follow-up	Oct-Dec 2012	2.5	7	Update the training program	Jan- 2013 Mar	2.4	8	Submission to the Project Director for confirmation for further action	Mar 2013	
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1	Identification of necessary activities for CF management & extension services	May 2011	2.1																																			
2	Confirmation of the roles of each technical MCFTF	ditto	2.2																																			
3	Assessment of the human resource development needs for each level of technical MCFTF	ditto	2.3																																			
4	Development of training program, including curriculum, syllabus & training materials, based on the existing ones and the needs assessment	Jun- 2011 Oct.	2.4																																			
5	Implementation & monitoring of training program	Oct- 2011 Dec	2.5																																			
6	Evaluation and follow-up	Oct-Dec 2012	2.5																																			
7	Update the training program	Jan- 2013 Mar	2.4																																			
8	Submission to the Project Director for confirmation for further action	Mar 2013																																				

Annex 4 Implementation Process

Item	Source/ Methods	Findings												
		<p>recovery works from the damage of the Cyclone Nargis, in particular rehabilitation of the 4 CFCENs, that the SOP related activities were not be able to be initiated in full-scale. Tentative schedule for development of the SOP is shown below.</p> <p style="text-align: center;">Table 11: Tentative schedule for development of SOP</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Major steps</th> <th>Tentative Schedule</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Development of a draft SOP (in English & Myanmar)</td> <td>By Dec 2011</td> </tr> <tr> <td>2</td> <td>Finalization of the draft</td> <td>By March 2013</td> </tr> <tr> <td>3</td> <td>Submission to the Project Director for confirmation for further action</td> <td>By March 2013</td> </tr> </tbody> </table>		Major steps	Tentative Schedule	1	Development of a draft SOP (in English & Myanmar)	By Dec 2011	2	Finalization of the draft	By March 2013	3	Submission to the Project Director for confirmation for further action	By March 2013
	Major steps	Tentative Schedule												
1	Development of a draft SOP (in English & Myanmar)	By Dec 2011												
2	Finalization of the draft	By March 2013												
3	Submission to the Project Director for confirmation for further action	By March 2013												
(4) Activities under Output 3	-ditto-	<p>The Activities are mostly on schedule and are expected to be completed by the end of the Project.</p> <p><u>Issues/Points</u></p> <ol style="list-style-type: none"> 1. <u>Items for Action Research (Activity 3.1)</u>: Silviculture techniques for rehabilitation and management of mangroves are essential for the achievement of the Project Purpose. The research items are, however, to be identified considering the Project term and possible input. Such items as mulching, ploughing and fast-growing species may be of less priority. On the other hand, the survey on recovery of vegetation, which was not included in the original design, will provide precious information making best use of what the tragic event of the Cyclone Nargis brought forth. 2. <u>AR test designs (i.e. Activity 3.2)</u>: Concepts of each research item are clearly identified in the present technical report of the Project, i.e. the attachment 2.3.1 of IT/R. Technological advantage of Japan should be recognized more in making research designs than in their results themselves, since it should be physically impossible to obtain overall results of these research activities within the remaining Project term. In this context, the above report is lacking of information about research plot allocation by research item. It is also not clear whether survey on Site Condition (SC) were conducted for all the plots or not. Although 'nursery (techniques)' and 'natural forest operation techniques' are mentioned in PDM, 'planting (techniques)' are to be focused considering the remaining Project term. 3. <u>Execution of AR (i.e. Activity 3.3)</u>: So long as the each specific design is explained in well advance to Range Officer and workers employed for planting activities, it should not be difficult for them to prepare necessary seedlings and to set plots. 4. <u>Monitoring (i.e. Activity 3.4)</u>: Monitoring activities are not technically difficult. It is said that monitoring was not fully conducted in some sites, however, as for growth rate and survival rate, the delay of monitoring would not lessen the significance of the research (Although it is needless to say that monitoring on the mutually comparative plots must be conducted at the same timing). 5. <u>Technical report (i.e. Activity 3.5)</u>: Technical reports on AR are to be made by the end of the Project. Contents of the reports will be what are summarized in the Attachment 2.3.1 of IT/R together with data on plot setting and dataset of monitoring results by plot. 6. <u>Technical guidelines (i.e. Activity 3.6)</u>: A guidelines for silviculture techniques for rehabilitation of mangrove and its associated forests is expected to be formulated by the end of the Project. However, implemented so far and planed activities under Output 3 could not 												



Annex 4 Implementation Process

Item	Source/Methods	Findings
		logically conclude effective management model of mangroves and its associated forests but survival rate and growth rate in their initial stage only. Since an external factor, the Cyclone Nargis, destructed the results of prior research activities and plots.
(5) Activities under Output 4	-ditto-	<p>Some of the Activities are on schedule, while others are behind the schedule. It is not certain if all of the planned Activities would be completed by the Project end, however.</p> <p><u>Issues/Points</u></p> <ol style="list-style-type: none"> 1. <u>Formulation of an official and permanent inter-agency committee:</u> The Inter-agency committee has not been formulated /officialized yet because both Myanmar and Japanese sides were too much occupied with the bulky disaster recovery works, in particular rehabilitation of 4 CFCENs, which was caused by the Cyclone Nargis, an external condition beyond the control of the Project. Moreover, the Project has found it administratively difficult to formulate an official and permanent inter-agency committee meeting at regional level. For reference, the Project plans to materialize regular inter-agency project coordination meeting at regional level, which has been already approved by the JCC, as a start.
2 Implementation System	Review of progress reports, question naire & interview with relevant P/P,J/E,	<p>The Project is implemented by the FD in cooperation with Myanmar Agricultural Services, Ministry of Agriculture and Irrigation (MAS) and Department of Fisheries, Ministry of Livestock and Fisheries (DOF), and with support from Settlement and Land Record Department, Ministry of Agriculture and Irrigation (SRLD).</p> <p>As for the FD, at the Headquarter level, Director General of the FD, as the Project Director, will bear overall responsibility for the administration and implementation of the Project. Director of Planning and Statistic Division of the FD, as the Project Manager, is responsible for the managerial and technical matters of the Project. Assistant Director of the Planning and Statistic Division, as the Project Coordinator, is responsible for the coordination of the Project.</p> <p>In addition, Assistant Director of the FD Myanug Mya District Office, as the Field Project Manager, is responsible for the implementation of the Project at the field level.</p> <p>Implementation system has been considered appropriate.</p>
3 Project Management	Review of progress reports, question naire & interview with relevant P/P,J/E, review of PDM/PO	<ol style="list-style-type: none"> 1. <u>Joint Coordinating Committee (JCC):</u> According to the Record of Discussions (R/D), functions of the JCC are: (i) to approve the Annual Plan of Operation (APO) formulated by the Project in accordance with the R/D; (ii) to review the overall progress of the Project and activities carried out under the above mentioned APO in particular; (iii) to review and exchange views on major issues arising from or concerning the Project; (iv) to make decisions relevant to the overall management of the Project; and (v) to facilitate coordination with other relevant authorities. The JCC is chaired by Director General of the FD (i.e. Project Manager). Members include a representative of Department of Planning and Statistics, MOF; Directors of Administration Division, Finance Division, and Training & Research Division of the FD; Director of FD Ayeyawady Division; Representatives of DOF, MAS, and SLRD. So far, five JCC meetings have been held (in June 2007, March 2008, January & June 2009, and August 2010). 2. <u>Internal monitoring system:</u> Overall progress of the Activities of PDM/PO and achievement of the Indicators of the PDM has not been monitored by the Project sufficiently. The Project Operation Manual has been

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Annex 4 Implementation Process

Item	Source/ Methods	Findings
		<p>prepared/updated every year, which was approved by the JCC. The Manual, however, has not been put into practice. Although ad-hoc meetings have been held as needed, periodic meetings to systematically monitor day-to-day activities have not been held. In order to enhance internal monitoring, the Project plans to have different level of regular meetings:(i) weekly Japanese Expert Team meetings who are in Myanmar; (ii) monthly township level meetings between the FD and the Japanese Expert Team; (iii) quarterly district-level meetings between the FD and the Japanese Expert Team; and (iv) quarterly project management meetings, consisting of the Project Manager, the Project Coordinator, the Field Project Manager, and the Japanese Expert Team. Progress of the previous period and the plan for the current period as well as issues and actions would be discussed in such meetings among others.</p> <p>3. <u>PDM and the PO</u>: The PDM as well as the PO is an essential tool for the project management for the projects supported by JICA. The PDM and the PO of the present Project, however, has not been used effectively.</p> <p>a. As for the PDM, description of some of the Activities is vague. Activities under Output 2, in particular, are not strategically linked with each other. Most of the "Objectively Verifiable" Indicators are not objectively verifiable. Most of them lack criteria to judge the achievement level. Some of them are not well defined. In addition, some of the Indicators of the Outputs are not directly linked to their Activities. Monitoring of the Indicators has not been conducted. The relevant activities are not included in the PDM (or PO), either.</p> <p>b. As for the PO, information necessary for planning and monitoring, including sub-activities of the Activities of the PDM and "expected result(s)" for each sub-activity have not been identified. Although "responsible parties" are shown, they are not specific enough. In the monitoring process, these issues have not been addressed. This has made it difficult for all those concerned to have common understanding of the overall implementation process and progress of the Project based on the PO as well as expected achievement level of the Outputs and the Project Purpose of the PDM.</p>
4 Communication	Questionnaire and interview with P/P and J/E	Communication within the Project has been generally sufficient in order to implement the Activities of the Project.
5.Coordination with relevant organizations	ditto	The Project has been implemented in coordination/cooperation with various organizations, including DOF, MAS, and SRLD.
6. Other factors that have affected the implementation process	-ditto-	<p>1) <u>Positive factors</u>:</p> <p>a Initiative and commitment of Director General of the FD (as Project Director) concerning the Project has promoted smooth implementation of the Project.</p> <p>b The Project Personnel of the FD have been very cooperative, motivated, and hardworking.</p> <p>2) <u>Negative factors</u>: Not found.</p>



Annex 5 Evaluation based on Five Evaluation Criteria

I. RELEVANCE: *The Project is still relevant*

Item	Source/ Method	Evaluation
1.1 Necessity		
(1) Relevance with the needs of Myanmar	Review of the relevant document	The Overall Goal ("The mangrove forests are sustainably managed and poverty is alleviated among the communities in the Ayeyawady Delta") is relevant with the needs of Myanmar and Ayeyawady Delta region, in particular. The mangrove forests in the Ayeyawady Delta provide both direct and indirect benefits to the population inside and outside of the reserved forests. As for those outside the project target area, they also receive benefit from the supply wood products such as fuelwood and charcoal, non-wood products such as fish and shellfish, and from the non-use value from biodiversity conservation, coastal erosion and flood protection, and carbon sequestration. In sum, rehabilitation and sustainable management of mangroves will imply that such benefits will continue to reach people outside the project target area, and thus manage to meet the needs of the Government of the Myanmar.
(2) Relevance with the needs of the target group (i.e. communities practicing community forestry in four Reserve Forests).	Review of the reports, questionnaire and interview with the relevant P/P and J/E.	The Project Purpose ("The communities and the mangrove forests co-exist in a sustainable manner in the selected areas where project activities were implemented within the Ayeyawady Delta") is relevant with the needs of the Target Group-the CFUSGs supported by the Project. The members of the CFUSGs are dependent either wholly or partly on mangrove resources for their livelihoods for the direct consumption or sales of materials such as fuelwood, nipa thatching, poles, and other wood and non-wood forestry products. Once the mangrove resources are lost to the point of that the trend is irreversible, the local communities, already highly dependent on the mangrove resources for their livelihoods, would be the first to suffer the consequences. Thus alleviation of the current situation and encouraging the communities to take control over the management of such valuable resources is very much in line with meeting their needs.
(3) Relevance with the needs of Implementing Organization	Review of the relevant document,	The Project Purpose is relevant with the organizational needs of the Forest Department (FD) of the Ministry of Forestry (MOF), which has the mandate for the protection and conservation of biodiversity and sustainable management of the forest resources.
1.2 Priority		
(1) Relevance with national plan and policies of Myanmar	Review of the relevant documents	The Overall Goal and the Project Purpose are consistent with national plan and policies of Myanmar. <ul style="list-style-type: none"> ➢ According the latest National Short-Term Five-Year Plan (2005/6~2010/11) that afforestation works throughout the country including the mangroves is one of the national priority objectives. ➢ The National Forestry Sector Master Plan (2001-2031), reflecting the Forest Policy of 1995, identifies four major areas in the forestry sector where local communities shall be mobilized for: 1) the management of local supply of reserved forests and protected public forests; 2) participation in afforestation efforts; 3) participation in agro-forestry activities and 4) in the management of state-owned forest management.
(2) Relevance with ODA policies of Japan	ditto	The Overall Goal and the Project Purpose are consistent with ODA policies of Japan. <ul style="list-style-type: none"> ➢ According to the ODA Charter, published by the Government of Japan, "consideration to global warming and environmental problems," is one of the four priority issues. In addition, the Japan's Medium-Term Policy of ODA, 2005, also states that the environmental sector is one of the most important sectors of international cooperation. ➢ According to the Japan's "Medium-Term Policy of Official Development Assistance (ODA)", issued in 2005, the Government of Japan has been setting the environmental sector as one of the most important sector of international cooperation.

Annex 5 Evaluation based on Five Evaluation Criteria

Item	Source/ Method	Evaluation
1.3 Adequacy as means		
(1) Technological Advantage of Japan	Review of Questionnaire, interviews with P/P and J/E	Technological advantage of Japan is confirmed. Since 1990s, JICA has promoted CF and sustainable forest management in partnership with the FD through a series of Projects supporting the Central Forestry Development Training Centre (CFDTC), latest one being the Aftercare Program of 1999-2001) and "Community Forestry Training and Extension Project in Dry Zone Project" (COMFORT, 2001-2006). In addition, "The Study on Integrated Mangrove Management through Community Participation in the Ayeyawady Delta" was carried out in 2002-2005. The experiences and know-how accumulated the past assistance could be applied in the current Project.

II. EFFECTIVENESS (Prospect) : *The Prospect of the effectiveness is not clear at the moment.*

Items	Source/ Method	Evaluation
2.1 Achievement level of the Project Purpose & contribution of the Outputs	Review of "Accomplishment of the Project"	Progress has been made towards achievement of the Project Purpose but the exact degree of achievement cannot be assessed (*). Judging from the overall achievement level of the Outputs, achievement level of the Project Purpose is presumed to be lower than expected due to adverse effects posed by the external condition beyond the control of the Project (i.e. Cyclone Nargis). Since the exact level of overall achievement of the Outputs is not clear because of unavailability of the relevant data and lack of realistic planned value for some of the Indicators, the degree of delay in achieving the Project Purpose cannot be presumed. Meanwhile, all of the Outputs, although their level of achievement varies, have contributed to the achievement of the Project Purpose. If the Outputs had been achieved as planned without being affected by the Cyclone Nargis, the achievement level of the Project Purpose would have been as planned. (*) The exact level of current achievement as well as likelihood of achievement by the end of the Project was not able to be assessed because (i) the planned value of the first Indicator is based on the assumptions that have been changed since then; (ii) the second Indicator does not reflect the contents of the Project Purpose properly and (ii) no information was available for the third Indicator due to lack of monitoring.
2.2 Important Assumptions	Review of progress reports	The Important Assumptions for the Project Purpose ("No drastic increase in the population within the four reserved forests" and "External pressure to convert the mangrove forests to other land uses does not increase") have been satisfied, so far.
2.3 Other promoting /hampering factors	ditto	Specific factors have not been found.

III EFFICIENCY: *Efficiency of the Project has not been sufficient mainly due to the adverse effect posed by an external condition that was beyond the control of the Project (i.e. Cyclone Nargis in May 2008)*

Items	Source/ Method	Evaluation
3.1 Production level of Outputs	Review of the results of "accompli"	Overall: Production level of most of the Outputs is (or is presumed to be) behind the schedule mainly due to adverse effects caused by an external condition that was beyond the control of the Project (i.e. Cyclone Nargis).

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Annex 5 Evaluation based on Five Evaluation Criteria

Items	Source/ Method	Evaluation
	shment of the Project", and "Implementation Process"	<p>Output 1, 2, 4 have been partly achieved but is not likely to be fully achieved by the Project end.</p> <ul style="list-style-type: none"> ➤ <u>Output X</u>: Production level of the Output X is almost as planned. Output X has been mostly produced and is likely to be produced by December 2011. ➤ <u>Output 1</u>: The Output has been partly achieved but is not likely to be fully achieved by the Project end because of the following reasons: (i) the number of the CFUSGs organized/reorganized during 2009-2011(i.e. 11 CFUSGs) would be about a half of the original plan (i.e. 20 CFUSGs); (ii) an average area to be rehabilitated by the CFUSGs (i.e. 140 acres) is about 70% of the original estimate (i.e. 200 acres); and (iii) current income generation support is not well integrated in the CF. ➤ <u>Output 2</u>: The production level of Output 2 is unknown because of the following reasons: (i) the data for the Indicators is not available due to insufficient monitoring; and (ii) the Indicators are not relevant for Output 2. Judging from the progress of the activities, production of Output 2 is presumed to be behind the schedule. The delay of the activities is mainly caused by the adverse effects posed by the Cyclone Nargis (See Annex 4 "Implementation Process" for details) ➤ <u>Output 3</u>: The Output has been partly achieved but is likely to be fully achieved by the Project end. ➤ <u>Output 4</u>: The Output has been partly achieved but is not likely to be fully achieved by the Project end because formation of an official and permanent inter-agency coordination committee for mangrove management (or any other purpose) is considered to be administratively very difficult
3.2 Important Assumptions	Review of progress reports	<ul style="list-style-type: none"> ➤ <u>The first Assumption</u> ("No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases)"); The Assumption has not been satisfied. The Cyclone Nargis hit the Target Area in May 2008, which affected not only rehabilitation of mangrove forests but also the lives and livelihood of the communities. In order to facilitate post-cyclone recovery, a variety of activities have been added to the Project (i.e. activities under Output X of PDME). Accordingly, Japanese Inputs have been increased from the original plan; and the Project duration has been extended for one year until March 2013. The modified PDM, accommodating the above, was approved in January 2009. Since the damage as well as the time & human resources required for the post-disaster recovery work was more than envisaged at the time when the PDM was modified, production level of most of the Outputs is behind the schedule. ➤ <u>The second Assumption</u> ("Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests"); The Assumption has been satisfied so far.
3.4 Inputs		
(1) Myanmar side		
(a) Project personnel	Questionnaire & interview with the relevant P/P and J/E	<ul style="list-style-type: none"> ➤ <u>Timing and quantity</u>: All of the current Project Personnel engage in the Project on part-time basis. They are often too busy with other work to focus on the Project activities. Allocation of full-time project personnel was agreed in the second JCC meeting in March 2008. One full-time personnel was assigned from September 2009 to November 2010. The successor has not been assigned yet. ➤ <u>Quality</u>: In general, the Project personnel with adequate background and technical level have been assigned.
(b) Building, and facilities	-ditto-	<ul style="list-style-type: none"> ➤ <u>Timing, Quantity & Quality</u>: Timing of provision, space and quality is considered to be appropriate. ➤ <u>Utilization</u>: Generally, appropriate. The Project Office newly constructed in MYM has not been utilized as much as expected, however.
(c) Local cost	-ditto-	<ul style="list-style-type: none"> ➤ <u>Timing & Quality</u>: On average, the FD has allocated the budget

Annex 5 Evaluation based on Five Evaluation Criteria

Items	Source/ Method	Evaluation
		equivalent to more than US D 20,000 per year for project implementation, apart from the salaries for the project personnel. In general, necessary amount has been disbursed without delay except for FY2008 (March-April), in which Myanmar side concentrated its budget on post-Cyclone Nargis recovery. In addition, transportation costs and allowance for filed visits have not been often allocated sufficiently in timely manner.
(2) Japanese side		
(a) Japanese Expert	Question naire & interview with P/P and J/E	<ul style="list-style-type: none"> ➤ <u>Timing</u>: The Experts have been dispatched according to the annual plan of dispatch. ➤ <u>Quantity</u>: Taking into account the additional activities after Cyclone Nargis, a total assignment period of Japanese Expert Team was increased approximately 29 m/m compared with the original plan. ➤ <u>Allocation & Utilization</u>: As per the PO, the Expert in Participatory Community Development was assigned to most of the Project Activities under Output 1, Output 2 and Output4. In addition, he was responsible for logistics coordination. Obviously the Expert was overloaded, which made it difficult to focus on his supposedly primary activities. In addition, the Expert in Training/Extension had been actually assigned to construction management for rehabilitation of CFCENs, which took time and efforts (of not only the said Expert but also other Experts and the FD staff) so much that training related activities were left behind.
(b) Training in Japan	-ditto-	<ul style="list-style-type: none"> ➤ <u>Timing</u>: Training in Japan has been implemented as scheduled ➤ <u>Quantity</u>: Most of the SOs and ROs relevant to the Project have been sent for training in Japan. ➤ <u>Quality, field, contents</u>: They are relevant with the needs and level of the trainees. ➤ <u>Utilization</u>: Most of the ex-trainees still engage in the Project. They have applied skills and knowledge acquired in the field and have shared them with their colleagues.
(d) Equipment	-ditto-	<ul style="list-style-type: none"> ➤ <u>Timing</u>: Timing of procurement and delivery of the equipment is generally appropriate. ➤ <u>Quantity</u>: Mostly appropriate. It would be more efficient if a PC is provided to each township office of the FD for data analysis and management related to CF and AR. (So far, SOs and ROs have been using their private PCs). ➤ <u>Quality, items, specifications</u>: Quality and items of the provided equipment are considered appropriate. Specifications are also generally appropriate. ➤ <u>Operation and maintenance (O/M)</u>: Since most of the equipment was procured locally, spare parts and consumables are readily available in Myanmar. O&M manuals in English are available. The equipment, except the one being used by the Japanese Expert Team in the Project Offices in Yangon and MYM, has been handed over to the Myanmar side already. The handed-over equipment has been managed without a major problem so far. ➤ <u>Utilization</u>: Most of the equipment is fully utilized for the project implementation except for of the equipment for the Japanese Expert Team located in the Project Office in MYM, including a generator and a photocopier.
(e) Local cost	-ditto-	<ul style="list-style-type: none"> ➤ <u>Timing & Quantity</u>: Necessary amount has been disbursed without delay in general except for payment of labor costs for rehabilitation of CFCEN and Action Research plantations in the middle of 2010. ➤ <u>Others</u>: It is noted that since December 2007, meeting allowance, On-JT/Off-JT allowance, and travel allowance for the project personnel have been paid by the Japanese side based on the agreement made in a meeting between the Implementing and Supporting Organizations (/FD, MAS, DOF, and SLRD) and JICA Expert Team in September 2007. During the same meeting, it was agreed that "sharing cost by the project

Annex 5 Evaluation based on Five Evaluation Criteria

Items	Source/ Method	Evaluation
		(i.e. the Japanese side) would be decreased" over the Project Period.
3.5 Preconditions	Progress reports	The preconditions of the Project ("No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases" and "Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests") had been satisfied prior to the commencement of the Project.
3.6 Coordination with other relevant projects	Progress reports, J/E	<ul style="list-style-type: none"> ➢ <u>With other Japanese projects:</u> The Technology Exchange Programme was conducted in 2008 in Vietnam in coordination with the "JICA Afforestation Technology Development Project in Acid Sulphate Soil in the Mekong Delta "(1997~2000, 2000~2002). ➢ <u>With other donors:</u> The Technology Exchange Programme was conducted in 2 2009(Thailand) in collaboration with Regional Community Forestry Training Center (RECOF/TC). <p>Through the above collaboration, the project staff of the FD was able to learn good practices in neighboring countries which have similar socio-economic conditions to Myanmar.</p>
3.7 Other promoting /hampering factors	Progress reports, interview with P/P, J/E	Specific factors are not identified,

IV. IMPACT: *Some positive impacts have been already observed.*

Items	Source/ Method	Evaluation
4.1 Impact at the Overall Goal level		
(1) Likelihood of achievement of the Overall Goal	Results of "Accomplishment of the Project"	It was found too early to assess the likelihood of the achievement of the Overall Goal at this stage.
(2) Important Assumption	Questionnaire & interview with the relevant P/P and J/E	ditto
4.2 Other impacts	Questionnaire & interview with the relevant P/P and J/E, interview with target groups	<p><Positive Impacts observed already></p> <ul style="list-style-type: none"> a. <u>Utilization of acquired techniques:</u> The techniques, skills, and knowledge acquired through training in Japan, technology exchange program in Vietnam and Thailand, Action Research, etc, have been applied/utilized in plantation activities of the FD already. b. <u>Creation of temporary employment:</u> In rehabilitation of CFCENs and establishment of AR plantations, local villagers, including men and women, were employed as casual labor. c. <u>Provision of shelter from high-tide by a CFCEN:</u> In September 2010, high tide hit the Reserve Forest in Pyarpon. Local villagers, who evacuated their home, took shelter in the CFCEN rehabilitated through the Project with reinforced structure that is resistant to natural disaster. d. <u>Awareness:</u> It should not be only Cyclone Nargis that raise peoples' awareness on mangrove conservation. The Project started even before the Cyclone Nargis and fermented peoples' mind of co-existence with mangroves through promoting approaches of Forest Department staff to local communities. For this, there are some people who voluntarily plant mangroves on their own farmland, instead of continuation of unproductive agriculture. <p>Negative impacts have not been observed. They are not foreseen, either.</p>

Yes

Annex 5 Evaluation based on Five Evaluation Criteria

V. SUSTAINABILITY (Forecast) : *Sustainability is likely to be ensured if certain issues, including development of the post-project strategy and securing the budget for transportation costs for field visits, are addressed before the end of the Project.*

Items	Source/ Method	Evaluation
5.1 Institutional & Organizational Aspects		
(1) Policy and legal supports	Review of the relevant document , questionnaire to P/P	It is likely that current policy and legal supports for mangrove conservation and community forestry would continue. As the basic concept of the CF is stipulated in the Forest Law (1992), Forest Policy (1995) and CFI (1995) , CF is expected to serve as an important policy tool to promote sustainable forest management and contribute to improving livelihoods of the communities in the forest area. In addition, the Government of Myanmar has been conducting CF training programs systematically for not only the FD staff members but also people in forest communities at CFDTCC, which was originally provided by JICA. This is another indication of the Government's strong commitment to CF policy. Considering that CF itself has a special importance in the Government as stated above and conducting an in-depth mid-term review of the Project, the Team was convinced that FD would be sufficiently capable of utilizing the results of the Project to promote CF activities for mangrove forests effectively in cooperation with other authorities concerned even after the completion of the Project
(2) Organizational strategy (post-project strategy)	Questionnaire and discussion with managerial P/P, J/E	Post-project strategy for promotion of integrated mangrove management, including CF, in the Ayeyawady Delta is yet to be developed,
(3) Deployment of Project Personnel	ditto	All of the Myanmar project staff members are permanent employees of the FD, which ensures their continuous employment. They are expected to be assigned to the relevant posts after the end of the Project. If they are assigned in Ayeyawady Delta region, they will be able to fully utilize their knowledge and skills in their work. (For those assigned to other regions, utilization/application of the skills and knowledge is also possible except for the ones that are specific to mangrove forest area).
(4) Management capacity	ditto	The FD has managed the relevant activities without serious problems so far. It is expected that they will be able to manage the relevant activities for themselves after the end of the Project.
(5) Coordination with relevant organizations	ditto	The FD has coordinated their activities with concerned organizations as mentioned in Annex 4. With a regular inter-agency coordinating meeting at regional level and a regular donor/NGO coordinating meeting at district level in place, which are planned to be initiated by the Project, in place, the coordination/cooperation with the relevant organizations is expected be enhanced.
5.2 Financial Aspects	ditto	So far, the FD has allocated necessary budget for implementation of the Project, except for transportation costs for field visits, e.g. AR plantation and CF villages. For example, allowances of meetings, field trips, and travel have been borne by the Japanese side based on the agreement made in a meeting between the Implementing and Supporting Organizations and JICA Expert Team in September 2007. Unless measures to secure the transportation costs for the field visits are secured, continuation and expansion of the related activities in the post-project period would be difficult.
5.3 Technical Aspects		
(1) Technical capacity of the	Questionnaire	➢ <u>Output 1 (Participatory approach in particular)</u> : Due to lack of organized records related to technical transfer associated with CF

Annex 5 Evaluation based on Five Evaluation Criteria

Items	Source/ Method	Evaluation
Project Personnel (i.e. field level staff)	and interview with the relevant P/P,J/E	<p>activities, the Mid-term Review team was not able to assess the technical level of the field staff on this subject. For reference, most of the SOs and ROs have prior exposure to CF either through participation in the training at CFDTC or through working as project staff in the past CF projects supported by UNDP/FAO or JICA pilot projects. As for Foresters, their previous experience and knowledge are limited because (i) they are not entitled to receive CF training at CFDTC and (ii) the assignment period in one post is normally 1-2 years</p> <ul style="list-style-type: none"> ➤ <u>Output 2 (CF management and support system)</u>: As little progress has been made in the related activities due to adverse effects caused by the Cyclone Nargis, technical transfer has not yet been implemented in full-scale. ➤ <u>Output 3 (Silviculture techniques/Action research)</u>: Technical capacity of the Project staff has been enhanced steadily. They have been playing main role in planning, implementation and monitoring of current activities with advisory support from the Japanese experts. It is likely that they will gain enough skills and knowledge to continue, and develop the relevant activities by the end of the Project.
(2) Utilization and dissemination of the transferred techniques and project deliverables	ditto	<ul style="list-style-type: none"> ➤ <u>Output 1 (Participatory approach in particular)</u>: As for utilization and dissemination of the transferred techniques in the post-project period, the Mid-term Review Team was not able to obtain the relevant information. ➤ <u>Output 2 (CF management and support system)</u>: A training program as well as SOP for Mangrove CF is expected to be produced by the Project end for distribution to the FD field staff in Ayeyawady Delta among others. At the moment, it is uncertain if these deliverables would be continuously utilized and disseminated after the Project end. In order to make sure the continuous utilization and dissemination, the deliverables should be relevant with local needs, levels, and the prevailing laws and regulations. They should be also field-tested and modified as appropriate. The final deliverables should be incorporated in the existing institutional framework of the FD. In view of the above, the Project plans to develop the training program and the SOP based on the existing ones, exploring the possibilities of involving the CFDTC. The final deliverables are planned be submitted to the Director General of the FD for his confirmation and further action. ➤ <u>Output 3 (Silviculture techniques/Action Research)</u>: The techniques and methods transferred through the Project as well as the deliverables are considered to be relevant with the local needs and levels. They have been already utilized by the FD staff in their other Departmental works. In addition, technical guidelines for field FD staff and a technical report, compiling the results of AR, are scheduled to be produced by the Project end. Taking into account appreciation of the FD staff, it is likely that the transferred techniques/methods and the project deliverables will be continuously utilized and disseminated after the end of the Project.
(3) Utilization of the provided machinery and equipment	ditto	<p>Machinery and equipment provided by the Project has been utilized fully. As most of the machineries provided are general items such as vehicles, computers, GPS, etc., the technical capacity to utilize the machinery and equipment after the completion of the Project is likely to be ensured for the most part. As for maintenance, spare parts and consumables are available in Myanmar.</p>

ANNEX 6-1 Proposed draft for PDM2

1. Project Title: Integrated Mangrove Rehabilitation and Management Project through Community Participation in the Ayeyawady Delta
 2. Project Duration: April 2007-March 2013
 3. Target Area: Four reserved forests (Kyakankwinpauk, Pyinalan, Kadonkani, Pyindaye) in the Ayeyawady Delta
 4. Beneficiaries: Communities practicing community forestry in the four reserved forests (Kyakankwinpauk, Pyinalan, Kadonkani, Pyindaye) in the Ayeyawady Delta & Member of Community Forestry Task Force (MCFTC) and other relevant staff from the Forest Department

PDM version: 2
 Date of approval: *****

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal: The mangrove forests are sustainably managed and poverty is alleviated among the communities in the Ayeyawady Delta</p> <p>Project Purpose: The communities and the mangrove forests co-exist in a sustainable manner in the selected areas where project activities were implemented within the Ayeyawady Delta.</p>	<p>a. Mangrove forest coverage increases by X acres (Y ha) (*1) in the Target Area of the current Project. (i.e 4 RFs) within three years after the completion of the Project</p> <p>b. Income levels of communities in the Target Area is improved than that of 2004</p>	<p>a. Forests resource assessment by FD (remote sensing)</p> <p>b. Agricultural Census report</p>	<p>1 Favourable markets exist for CF products.</p> <p>2 FD's policy on the management of the four reserved forests does not change significantly.</p> <p>3 Sufficient financial and other resources are allocated for the sustainable management of mangrove forests.</p>
<p>Outputs:</p> <p>1. The selected communities practice environmentally and economically sustainable community forestry (CF).</p> <p>2. The management and the support system of the Forest Department (FD) for CF is effective.</p>	<p>a. By the Project end, mangrove forest coverage is increased by X acres (Y ha) (*2) in the selected areas where project were implemented(i.e. CF plantation, CF-Natural Forest Improvement Operation (NFIO), and ARP sites) from the base year 2009.</p> <p>b. At the end of the Project, among the registered members of all the target CFUGs reselected in 2011 more than 80% consider CF useful</p>	<p>a. Project reports</p> <p>b. Results from the CF Impact survey</p>	<p>1 No drastic increase in the population within the four reserved forests.</p> <p>2 External pressure to convert the mangrove forests to other land uses does not increase.</p>
<p>3. Some silvicultural techniques for the rehabilitation of the degraded and its management of the mangrove and its associated forests for the Ayeyawady Delta are established</p> <p>4. A coordination mechanism is established among key sectors to address the underlying causes of mangrove deforestation in the Ayeyawady Delta.</p>	<p>1a By July 2011, all the CF Management Plans of the CFUGs, reselected in March 2011, are developed/updated</p> <p>1b By the end of the Project, organizational capacity of the Management Committees (MCs) of all the target CFUGs, reselected in 2011, reaches the Xth level of the Y evaluation rating set by the Project</p> <p>1c The certified CF Management Plans (i.e. CF plantation and NFIO) of all the target CFUGs reselected in 2011 are implemented according their annual plans</p> <p>1d By the Project end, more than -X acres (Y ha) (*3) of mangrove forests are rehabilitated and managed by the CFUGs reselected in 2011 based on the certified CF Management Plans, including CF plantation and NFIO when applicable</p> <p>1e By the Project end, all the CFUGs reselected in 2011 start to gain profit from CF activities determined in the certified CF Management Plans and/or income generation activities supported by the Project</p> <p>2a By the end of the Project, capacity of X % of technical members of CF Task Force, engaged in the Project more than two years reaches the Yth level of the Z evaluation rating set by the Project for each level on CF management and extension/support on average</p> <p>2b On average, more than 80% of all registered members of the CFUGs reselected in 2011 give the highest or medium rate on three-level rating about "degree of understanding", "degree of applicability", and "degree of satisfaction" of the CF extension they received.</p> <p>2c By the Project end, a training program for CF for mangrove forest, including materials, is developed based on the existing ones for confirmation by the DG for further action (in English & Myanmar)</p> <p>2d By the Project end, Standardized Operational Procedures (SOP) for CF for mangrove forest is developed based on the existing SOP of the FD (i.e. Departmental Instructions and CFI) for confirmation by the DG for further action (in English & Myanmar)</p> <p>3a By the Project end, a technical report on Action Research (AR) for mangrove are prepared (in English and Myanmar)</p> <p>3b By the Project end, technical guidelines for field-level FD staff on rehabilitation and management of mangrove forests, which are developed based on AR findings, are published (in English and Myanmar)</p>	<p>1a: CF Management Plans,</p> <p>1b-1e: Monitoring report, project report</p> <p>2a-2d: Project reports</p> <p>3a-3b: Project reports</p>	<p>1 Meeting records</p> <p>2 Land use maps</p> <p>3 Meeting records</p> <p>4 Project reports</p> <p>5 Meeting records</p> <p>6a: Hazard map.</p> <p>6b: project reports</p>
<p>X (Additional Output after the Cyclone Nargis in May 2008) Recovery from damage of Cyclone Nargis is promoted.</p>	<p>4a By December 2011, an inter-agency coordination meeting is organized by the FD</p> <p>4b Land use information of the Target Area is updated based on the satellite images of 2007, 2009 and 2011.</p> <p>4c The updated land use information is shared at the inter-agency coordination meetings for discussion.</p> <p>4d Seminars to promote synergy among the relevant sectors are organized annually</p> <p>4e A donor/NGO coordination meeting for the Target Area organized by the FD once a year</p> <p>Xa: By March 2009, a hazard map of the Target Area is developed based on the latest satellite images (2009) for distribution to the local communities</p> <p>Xb By March 2010, a report on damage & recovery survey on the communities in the Target Area is prepared</p> <p>Xc By June 2011, a report on village profile survey in the Target Area is prepared</p> <p>Xd By March 2010, Centre for CF Extension & Nursery in each RF is rehabilitated.</p> <p>Xe In 2009 & 2010, materials necessary for disaster recovery or prevention work are provided to the FD and the</p>	<p>4a: Meeting records</p> <p>4b: Land use maps</p> <p>4c: Meeting records</p> <p>4d: Project reports</p> <p>4e: Meeting records</p> <p>Xa: Hazard map.</p> <p>Xb-f: project reports</p>	



ANNEX 6-1 Proposed draft for PDM2

Cooperating Agencies based on the needs of the selected villages. (2008-2010) is prepared

<p>Activities:</p> <p>1-1 Select villages to introduce CF from the ones that express interest.</p> <p>1-2 Conduct baseline survey on the basic socio-economic conditions of the selected villages.</p> <p>1-3 Organize/reorganize CFUSGs in the selected villages</p> <p>1-4 Assist the CFUSGs in preparing/updating their CF Management Plans and proposals for CF certificates through participatory planning process</p> <p>1-5 Issue CF certificates to the CFUSGs based on the proposals as per the CF Instruction (CFI)</p> <p>1-6 Assist the CFUSGs in implementing the certified CF Management Plans</p> <p>1-7 Implement various capacity strengthening programs to enhance the income levels of the CFUSGs in partnership with Cooperating Agencies such as Department of Fisheries (DOF), Myanmar Agriculture Service (MAS), and other institutions.</p> <p>1-8 Monitor and evaluate the implementation of the certified CF Management Plans</p> <p>1-9 Conduct impact survey regarding the effects of CF on the livelihoods of the members of the CFUSGs.</p> <p>2-1 Identify necessary activities for CF management (*4) and CF extension & support(*5) by each Reserve Forest (RF) based on review of the CF contents of the Integrated Mangrove Management Plan (IMMP).</p> <p>2-2 Confirm the roles and responsibilities of the technical members of CF Task Force; (technical MCFTF)(*6) for the identified activities</p> <p>2-3 Assess the needs of the technical MCFTF (e.g. financial, logistics and human resource development needs) to implement the identified activities</p> <p>2-4 Develop training plan & materials based on the assessment of the human resource development needs conducted in 2.3.</p> <p>2-5 Train the technical MCFTF according to the plan</p> <p>2-6 Construct/renovate the CF Extension Center & Nursery in each RF</p> <p>2-7 Provide extension services and support to the CFUSGs in each RF</p> <p>2-8 Carry out public awareness campaigns regarding CF and the conservation of mangrove forests</p> <p>2-9 Draft detailed SOP for CF for the mangrove forests based on the existing SOP of the FD (i.e. Departmental Instructions) and feedback from the Project activities</p> <p>3-1 Conduct surveys for identification of silvicultural techniques for both community and non-community forestry with respect to the eco-geographical / management zones in the Ayeayawady Delta</p> <p>3-2 Prepare the specific Action Research (AR) test designs for each of the identified silvicultural technique (e.g. seedling production, planning designs and methods, thinning, pruning, forest management).</p> <p>3-3 Execute the AR in each RF</p> <p>3-4 Conduct periodic technical monitoring / preliminary assessment on the AR plantation (ARP)</p> <p>3-5 Prepare a technical report on action research (AR) for mangrove are prepared in English and Myanmar</p> <p>3-6 Develop technical guidelines for rehabilitation and management of mangrove forests based on the findings of the AR</p> <p>4-1 Organize an inter-agency coordination meeting, consisting of relevant authorities (e.g. agriculture, fisheries, settlement and land records) at the Regional level to examine the underlying causes for mangrove deforestation in the Ayeayawady Delta.</p> <p>4-2 Update the land use information on periodic basis based on the up-to-date satellite images for discussion by the coordination meeting members, including overall forest resource assessment of the region and mangrove forest conversion.</p> <p>4-3 Organize seminars to promote synergies among the relevant sectors for the sustainable management of the mangrove ecosystem in the Ayeayawady Delta.</p> <p>4-4 Organize a coordination meeting with donors/NGOs active in the Target Area at District Level</p> <p>X-1 Prepare a hazard map based on analysis of damage of the cyclone Nargis</p> <p>X-2 Conduct quick damage & recovery survey in the Target Area</p> <p>X-3 Conduct village profile survey in the Target Area</p> <p>X-4 Rehabilitate the CF Extension Center and Nursery in each RF with cyclone-proof structure</p> <p>X-5 Support recovery or disaster prevention work of implementation and Cooperative Organizations in the Target Area through material supply</p> <p>X-6 Conduct public awareness activities on disaster prevention in the Target Area</p> <p>X-7 Arrange necessary coordination among donors in the integrated mangrove management</p> <p>X-8</p>	<p>Inputs</p> <p><Myanmar Side> Personnel (Members of CF Task Force: MCFTF)</p> <ol style="list-style-type: none"> 1. Project Director 2. Project Manager 3. Project Coordinator 4. Field Project Manager 5. Other MCFTF 6. Other personnel mutually agreed upon as necessary <p>Land, Building and Facilities</p> <ol style="list-style-type: none"> 1. Office building and facilities necessary for the implementation of the Project 2. Office space and necessary facilities for the Japanese experts and related staff members 3. Land for the action research 4. Jetty and space necessary for storage of boats and vehicles 5. Other facilities mutually agreed upon as necessary <p>Local Operational Costs Minimum of US\$100,000 equivalent in 5 years</p> <p><Japanese Side> Personnel</p> <ol style="list-style-type: none"> 1. Chief Advisor 2. Participatory community development 3. Mangrove forestry 4. Coordinator 5. Other experts in specific fields (e.g. Extension, GIS, Agro-forestry, Fish culture, Forestry Value-added Production, Marketing and Distribution) upon mutual agreement <p>Machinery and Equipment</p> <ol style="list-style-type: none"> 1. Boat(s) 2. Vehicle(s) 3. Other equipment would be provided if necessary upon mutual agreement. <p>Training in Japan</p> <p>Local Costs</p>	<p>1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).</p> <p>2 Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests</p> <p>Pre-Conditions</p> <p>1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).</p> <p>2 Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests</p>
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(*1): The planned value will be determined by March 2012, reflecting the actual plans delineated in the CF Management Plans of the CFUSGs reselected in 2011 and Action Research as well as the area rehabilitated during 2009-2010 by the CFUSGs which were not reselected. (*2): The planned value will be determined by March 2012, reflecting the actual plans delineated in the CF Management Plans of the CFUSGs reselected in 2011. (*3): The planned value will be determined by March 2012, reflecting the actual plans delineated in the CF Management Plans of the CFUSGs reselected in 2011. (*4): "CF management" by FD is defined as planning, supervision, monitoring and evaluation, and data organization and analysis of the activities related to CF. "CF support" consists of extension service and extension support to CF. (*5): "CF extension services" may include organization of the organizational/management capacity of CFUSGs, provision of technical support for preparation and implementation of the CF Management Plans and income generation activities of CFUSGs, etc. "CF extension support" is defined as material support to CFUSGs, which include



ANNEX 6-1 Proposed draft for PDM2

provision of seedlings for CF plantation delineated in the CF Management Plans, making the facilities of the CF Extension and Nursery available to the CFUSGs for their activities, etc. (*6): "Technical MCFTF" in Output 2 include the Field Project Manager and field staff (Staff Officers(SOs), Range Officers(ROs), Deputy ROs(DROs), & Foresters) relevant to the Target Area



ANNEX 6-2

Modifications made in the draft PDM 2 (Addition to the PDME is shown as underlined; deletion as struck through)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal: The mangrove forests are sustainably managed and poverty is alleviated among the communities in the Ayeyawady Delta.</p> <p>Project Purpose: The communities and the mangrove forests co-exist in a sustainable manner in the selected areas where project activities were implemented within the Ayeyawady Delta.</p>	<p>a. Mangrove forest coverage increases by 12,000 X acres (Y ha) (*) in the Target Area of the current Project. (i.e 4 RFs) within three years after the completion of the Project</p> <p>b. Income levels of communities in the Target Area is improved than that of 2004</p> <p>a. By the Project end, mangrove forest coverage is increased by 6,200 X acres (Y ha) (*) in the selected areas where project were implemented (i.e. CF plantation, CF-Natural Forest Improvement Operation (NFIO), and ARP sites) from the base year 2009.</p> <p>b. At the end of the Project, in more than 80% of the villages, where the CF user groups (CFUGs) were organized/reorganized during 2009-2011, the percentage of households earning less than the average income of 100,000 kyats equivalent per year (base year 2002) decrease from the base year of CF organization/reorganization.</p> <p>c. At the end of the Project, among the registered members of all the target CFUGs reselected in 2011 organized/reorganized during 2009-2011, more than 80% consider CF useful</p>	<p>a. Forests resource assessment by FD (remote sensing)</p> <p>b. Agricultural Census report</p> <p>a. Project reports</p> <p>b. Results from the CF Impact survey</p> <p>b. Results from the CF Impact survey</p>	<p>1 Favourable markets exist for CF products.</p> <p>2 FD's policy on the management of the four reserved forests does not change significantly.</p> <p>3 Sufficient financial and other resources are allocated for the sustainable management of mangrove forests.</p>
<p>Outputs:</p> <p>1. The selected communities practice environmentally and economically sustainable community forestry (CF).</p>	<p>1a. By July 2011, all the CF Management Plans of the CFUGs, reselected in March 2011, are developed/updated</p> <p>1b. By the end of the Project, organizational capacity of the Management Committees (MCs) of all the target CFUGs, reselected in 2011, reaches the Xth level of the Y evaluation rating set by the Project</p> <p>1c. The certified CF Management Plans (i.e. CF plantation and NFIO) of all the target CFUGs reselected in 2011 are implemented according their annual plans</p> <p>1d. By the Project end, more than 4,000 X acres (1,600 Y ha) (*) of mangrove forests are rehabilitated and managed by the CFUGs reselected in 2011 organized/reorganized during 2009-2011 based on the certified CF Management Plans, including CF plantation and NFIO when applicable</p> <p>1e. By the Project end, all active the CFUGs reselected in 2011 organized/reorganized during 2009-2011 start to gain profit from CF activities determined in the certified CF Management Plans and/or income generation activities supported by the Project</p>	<p>1a. CF Management Plans,</p> <p>1b-1e: Monitoring report, project report</p>	<p>1 No drastic increase in the population within the four reserved forests.</p> <p>2 External pressure to convert the mangrove forests to other land uses does not increase.</p>
<p>2. The management and the support system of the Forest Department (FD) for CF is effective.</p>	<p>2a. By the end of the Project, capacity of X % of technical members of CF Task Force, engaged in the Project more than two years reaches the Yth level of the Z evaluation rating set by the Project for each level on CF management and extension/support</p> <p>2b. On average, more than 80% of all registered members of the CFUGs reselected in 2011 organized/reorganized during 2009-2011 are active-give the highest or medium rate on three-level rating about "degree of understanding", "degree of applicability", and "degree of satisfaction" of the CF extension they received.</p> <p>2b- Each year, new communities continue to express interest in organizing CFUGs.</p> <p>2c. By the Project end, a training program for CF for mangrove forest, including materials, is developed based on the existing ones for confirmation by the DG for further action (in English & Myanmar)</p> <p>2d. By the Project end, Standardized Operational Procedures (SOP) for CF for mangrove forest is developed based on the existing SOP of the FD (i.e. Departmental Instructions and CF) for confirmation by the DG for further action (in English & Myanmar)</p>	<p>2a-2d: Project reports</p> <p>3a-3b: Project reports</p>	
<p>3. Some silvicultural techniques for the rehabilitation of the degraded and the management of the mangrove and its associated forests for the Ayeyawady Delta are established.</p> <p>4. A coordination mechanism is established among key sectors to address the underlying causes of mangrove deforestation in the Ayeyawady Delta.</p>	<p>3a. By the Project end, a technical report on Action Research (AR) for mangrove are prepared (in English and Myanmar)</p> <p>3b. By the Project end, technical guidelines for field-level FD staff on rehabilitation and management of mangrove forests, which are developed based on AR findings, are published (in English and Myanmar)</p> <p>4a. By December 2011, an inter-agency coordination meeting is formulated by the FD committee is organized by the Ayeyawady regional government</p> <p>4b. Land use information of the Target Area is updated based on the satellite images of 2007, 2009 and 2011.</p> <p>4c. The updated land use information is shared at the inter-agency coordination committee meetings for discussion.</p> <p>4d. Specific recommendations are made and/or actions are taken by the committee.</p> <p>4g. Seminars to promote synergy among the relevant sectors are organized annually</p>	<p>4a: Meeting records</p> <p>4b: Land use maps</p> <p>4c: Meeting records</p> <p>4d: Project reports</p> <p>4e: Meeting records</p>	



ANNEX 6-2 Modifications made in the draft PDM 2 (Addition to the PDME is shown as underlined; deletion as struck through)

<p>X (Additional Output after the Cyclone Nargis in May 2008) Recovery from damage of Cyclone Nargis is promoted.</p>	<p>4e A donor/NGO coordination meeting for the Target Area organized by the FD once a year</p> <p>Xa: By March 2009, a hazard map of the Target Area is developed based on the latest satellite images (2009) for distribution to the local communities</p> <p>Xb By March 2010, a report on damage & recovery survey on the communities in the Target Area is prepared</p> <p>Xc By June 2011, a report on village profile survey in the Target Area is prepared</p> <p>Xd By March 2010, Centre for CF Extension & Nursery in each RF is rehabilitated.</p> <p>Xe In 2009 & 2010, materials necessary for disaster recovery or prevention work are provided to the FD and the Cooperating Agencies based on the needs</p> <p>Xf By December 2011, a report on recovery condition of mangrove vegetation (2008-2010) is prepared</p>	<p>Xa: Hazard map, Xb-f: project reports</p>
<p>Activities:</p> <p>1-1 Select villages to introduce CF from the ones that express interest.</p> <p>1-2 Conduct baseline survey on the basic socio-economic conditions of the selected villages.</p> <p>1-3 Organize/reorganize CFUSGs in the selected villages</p> <p>1-4 Assist the CFUSGs in preparing/updating their CF Management Plans and proposals for CF certificates through participatory planning process</p> <p>1-5 Issue CF certificates to the CFUSGs based on the proposals as per the CF Instruction (CFI)</p> <p>1-6 Assist the CFUSGs in implementing the certified CF Management Plans</p> <p>1-7 Implement various capacity strengthening programs to enhance the income levels of the CFUSGs in partnership with Cooperating Agencies such as Department of Fisheries (DOF), Myanmar Agriculture Service (MAS), and other institutions.</p> <p>1-8 Monitor and evaluate the implementation of the certified CF Management Plans</p> <p>1-9 Conduct impact survey regarding the effects of CF on the livelihoods of the members of the CFUSGs</p> <p>2-1 Identify necessary activities for CF management (*4) and CF extension & support(*5) by each Reserve Forest (RF) based on review of the CF contents of the Integrated Mangrove Management Plan (IMMP).</p> <p>2-2 Confirm the roles and responsibilities of the technical members of CF Task Force (technical MCFTF)(*6) for the identified activities</p> <p>2-3 Assess the needs of the technical MCFTF (e.g. financial, logistics and human resource development needs) to implement the identified activities</p> <p>2-4 Develop training plan & materials based on the assessment of the human resource development needs conducted in 2.3.</p> <p>2-5 Train the technical MCFTF according to the plan</p> <p>2-6 Construct/renovate the CF Extension Center & Nursery in each RF</p> <p>2-7 Provide extension services and support to the CFUSGs in each RF</p> <p>2-8 Carry out public awareness campaigns regarding CF and the conservation of mangrove forests</p> <p>2-9 Draft detailed SOP for CF for the mangrove forests based on the existing SOP of the FD (i.e. Departmental Instructions) and feedback from the Project activities</p> <p>2-10 Develop post-project strategy for CF management and CF extension & support</p> <p>3-1 Conduct surveys for identification of silvicultural techniques for both community and non-community forestry with respect to the eco-geographical / management zones in the Ayeyawady Delta</p> <p>3-2 Prepare the specific Action Research (AR) test designs for each of the identified silvicultural technique (e.g. seedling production, planning designs and methods, thinning, pruning, forest management).</p> <p>3-3 Execute the AR in each RF</p> <p>3-4 Conduct periodic technical monitoring / preliminary assessment on the AR plantation (ARP)</p> <p>3-5 Prepare a technical report on action research (AR) for mangrove are prepared in English and Myanmar</p> <p>3-6 Develop technical guidelines for rehabilitation and management of mangrove forests based on the findings of the AR</p> <p>4-1 Formulate <u>Organize an inter-agency coordination meeting committee</u>, consisting of relevant authorities (e.g. agriculture, fisheries, settlement and land records) at the District Regional level to examine the underlying causes for mangrove deforestation in the Ayeyawady Delta.</p> <p>4-2 Update the land use information on periodic basis based on the up-to-date satellite images for discussion by the <u>coordination meeting committee</u> members, including overall forest resource assessment of the region and mangrove forest conversion.</p> <p>4-3 <u>Conduct coordination among the committee members upon demand to coordinate instructions for the implementation of appropriate land-use policies.</u></p>	<p>Inputs</p> <p><Myanmar Side></p> <p><u>Personnel</u> (Members of CF Task Force: MCFTF)</p> <ol style="list-style-type: none"> 1. Project Director 2. Project Manager 3. Project Coordinator 4. Field Project Manager 5. Other MCFTF 6. Other personnel mutually agreed upon as necessary <p><u>Land, Building and Facilities</u></p> <ol style="list-style-type: none"> 1. Office building and facilities necessary for the implementation of the Project 2. Office space and necessary facilities for the Japanese experts and related staff members 3. Land for the action research 4. Jetty and space necessary for storage of boats and vehicles 5. Other facilities mutually agreed upon as necessary <p><u>Local Operational Costs</u></p> <p>Minimum of US\$100,000 equivalent in 5 years</p> <p><Japanese Side></p> <p><u>Personnel</u></p> <ol style="list-style-type: none"> 1. Chief Advisor 2. Participatory community development 3. Mangrove forestry 4. Coordinator 5. Other experts in specific fields (e.g. Extension, GIS, Agro-forestry, Fish culture, Forestry Value-added Production, Marketing and Distribution) upon mutual agreement <p><u>Machinery and Equipment</u></p> <ol style="list-style-type: none"> 1. Boat(s) 2. Vehicle(s) 3. Other equipment would be provided if necessary upon mutual agreement. 	<p>1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).</p> <p>2 Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests</p> <p>Pre-Conditions</p> <p>1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).</p> <p>2 Relevant authorities and stakeholders are supportive</p>

20



ANNEX 6-2

Modifications made in the draft PDM 2 (Addition to the PDME is shown as underlined; deletion as struck through)

<p>4-3 Organize seminars to promote synergies among the relevant sectors for the sustainable management of the mangrove ecosystem in the Ayeeyawady Delta.</p>	<p><u>Training in Japan</u> Local Costs</p>	<p>to promote sustainable management of mangrove forests</p>
<p>4-4 Organize a coordination meeting with donors/NGOs active in the Target Area at District Level</p>	<p>X-1 Prepare a hazard map based on analysis of damage of the cyclone Nargis</p> <p>X-2 Conduct quick damage & recovery survey in the Target Area</p> <p>X-3 Conduct village profile survey in the Target Area</p> <p>X-4 Conduct survey for recovery condition of mangrove vegetation from damage of Cyclone Nargis in the Target Area.</p> <p>X-5 Rehabilitate the CF Extension Center and Nursery in each RF with cyclone-proof structure</p> <p>X-6 Support recovery or disaster prevention work of implementation and Cooperative Organizations in the Target Area through material supply</p> <p>X-7 Conduct public awareness activities on disaster prevention in the Target Area</p> <p>X-8 Arrange necessary-coordination among-donors in the integrated mangrove management</p>	

(*1): The planned value will be determined by March 2012. The figure would be reviewed and finalized in developing the post-project strategy

(*2): The planned value will be determined by March 2012, reflecting the actual plans delineated in the CF Management Plans of the CFUSGs reselected in 2011 and Action Research as well as the area rehabilitated during 2009-2010 by the CFUSGs which were not reselected

(*3): The planned value will be determined by March 2012, reflecting the actual plans delineated in the CF Management Plans of the CFUSGs reselected in 2011.

(*4): "CF management" by FD is defined as planning, supervision, monitoring and evaluation, and data organization and analysis of the activities related to CF. "CF support" consists of extension service and extension support to CF.

(*5): "CF extension services" may include organization of the CFUSGs, strengthening of the organizational/management capacity of CFUSGs, provision of technical support for preparation and implementation of the CF Management Plans and income generation activities of CFUSGs, etc. "CF extension support" is defined as material support to CFUSGs, which include provision of seedlings for CF plantation delineated in the CF Management Plans, making the facilities of the CF Extension and Nursery available to the CFUSGs for their activities, etc.

(*6): "Technical MCFTF" in Output 2 include the Field Project Manager and field staff (Staff Officers(SOs), Range Officers(ROs), Deputy ROs(DROs), & Foresters) relevant to the Target Area

RM-A Record of Myanmar Inputs

A-1. List of Myanmar Personnel (Current personnel: 26 in total)

A-1-1 Management Personnel

(1) Current (9 in total)

	Name	Academic background	Position in the Organization	F/P	Assignment Period
1.	U Aye Myint Maung		Director General, Forest Department (FD)	P	February 2010 to date
2.	Dr. Nyi Nyi Kyaw		Deputy Director General, FD	P	February 2010 to date
3.	U Zaw Win (4)	B. Sc (Forestry)	Director, FD Planning and Statistic Division	P	April 2010 to date
4.	U Bo Ni	B.Sc (Forestry)	Deputy Director, FD Planning and Statistic Division (NPT)	P	
5.	U Khin Maung Lwin	B.Sc (Forestry),	Assistant Director, FD Myaung Mya District (MYM)	P	October 2007 to date (Former Staff Officer, Bogalay: (January 2006) May 2007 ~ September 2007)
6.	U Tuat Cin Khai	B.Sc (Forestry), Received Training in Japan (2010)	Staff Officer, FD Planning and Statistic Division (NPT)	P	December 2007 to date
7.	U Htay Aung	B. Sc (Forestry)	Range Officer, FD Planning and Statistic Division (NPT)	P	February 2010 to date
8.	U Win Naing	B. Sc (Forestry)	Director, FD Ayeayawady Division (Pathain) Will be transferred to (East) Bago Division (According to 2nd February instruction)	P	June 2008 to date
9.	U Hla Myo Aung	B.Sc (Forestry) M.Sc(Natural Resource Management)	Staff Officer, Myaung Mya District (MYM)	P	December 2010 to date

(2). Former (6 in total)

	Name	Academic background	Position in the Organization	F/P	Assignment Period
1.	U Aye Myint Maung		Director General, Forest Department (FD)	P	December 2004 to January 2010
2.	Dr. Nyi Nyi Kyaw		Deputy Director General, FD	P	February 2010 to date
3.	U Win Myint	B.Sc (Forestry)	Director, FD Ayeayawady Division (Pathain)	P	(May 2004) May 2007 ~ June 2008
4.	U Win Maung	B.Sc (Forestry),	Assistant Director, FD Myaung Mya District (MYM)	P	(November 2004) May 2007 to October 2007
5.	U Min Maw	B.Sc (Forestry),	Staff Officer, Myaung Mya District (MYM)	P	Sep 2009 to Dec 2010 (From Dec 2010, Assistant Director, FD NPT and engage in Project Activities)

RM (1)

RM-A Record of Myanmar Inputs

6.	Assistant Project Coordinator 2	U Aung Myat San	B.Sc (Forestry)	Planning and Statistic Division (NPT)	33	P	2007~ June 2010
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A-1-2 Technical Personnel (Technical Members of Community Forestry Task Force) (X in total)

(1) Current (17 in total)

a. Lapputa (10 in total)

	Position in the Project	Name	Academic Background	Position in the Organization	Age	F/P	Project Assignment Period
1	Field Project Leader, Laputta	U Aung Gyi	B.Sc (Forestry)	Staff Officer, Laputta Township	47	P	December 2010 to date
2		U Than Min Aye	B.Sc (Forestry)	Range Officer, Laputta Township	24	P	April 2010 to date
3	Field Project Chief, Kyakankwinpauk Reserved Forest (RF)	U Hla Shiwe	Grade 10 (Highschool)	Range Officer, Laputta Township	52	P	August 2009 to date
4	Field Project Chief, Pynalan RF	U Zaw Min	B.A. (Distance)	Range Officer, Laputta Township	54	P	January 2010 to date

Other Field staff (6 in total):

Kyakankwinpauk RF : Deputy Range Officer (2), Forester (1)
Pynalan RF: DRO (1), Forester (2)

b. Bogalay Township (8 in total)

	Position in the Project	Name	Academic Background	Position in the Organization	Age	F/P	Project Assignment Period
1	Field Project Leader, Bogalay	U Kan Htun	B.Sc (Forestry),	Staff Officer, Bogalay Township	43	P	October 2007 to date
2	Field Project Chief, Kadonkani RF	U Myo Min Htun	B.Sc (Forestry),	Range Officer, Bogalay Township	30	P	November 2009 to date (Former Field Project Chief, Pyindaye RF North, November 2007 to October 2009)
3	Field Project Chief, Pyindaye RF North	U Kyaw Kyaw Myo	B.Sc (Forestry),	Range Officer, Bogalay Township	27	P	October 2009 to date

Other Field staff: (5 in total)

Kadonkani RF : DRO (U Sai Thein Soe , U Aung Myint), Forester (U Aung Aung, U Than Min Htike)
Pynalan RF: DRO (U Kyaw Kyaw Min), Forester (U Lin Lin Htike, U Win Hlaing)

c. Pyarpon Township (9 in total)

	Position in the Project	Name	Academic Background	Position in the Organization	Age	F/P	Project Assignment Period
1	Field Project Leader, Pyar Pon	U Kyi Lin	B.Sc (Forestry),	Staff Officer, Pyar Pon Township	47	P	January 2010 to date
2	Field Project Chief,	U Zaw Min Htun	B.Sc (Forestry)	Range Officer, Pyarpon Township	35	P	January 2010 to date (Former Field Project

RM (2)

RM-A Record of Myanmar Inputs

Position in the Project	Name	Academic Background	Position in the Organization	Age	F/P	Project Assignment Period
Pyindaye RF South						Chief, Kadonkani RF: (January 2006) May 2007 - December 2009
3 Field Project Chief, Pyindaye RF South	U Win Maung Aye	B.Sc (Forestry),	Range Officer, Pyarpon Township	29	P	November 2009 to date (*)

(*)Former Field Project Chief, Pyinalan: (February 2007 - November 2007), RF- Will leave position to study in Germany in July 2011)

Other Field Staff (4 in total)

Pyindaye ED (South) : DRO (U Zaw Nay Linn , U Win Min Thein), Forester (U Han Myo Linn, U Myo Min Lat)

(2) Former Project Staff

a. Laputta Township

Position in the Project	Name	Academic Background	Position in the Organization	Age	F/P	Project Assignment Period
1 Field Project Leader, Laputta	U Win Naing	B.Sc (Forestry),	Staff Officer, Laputta Township	44	P	(2006) May 2007 ~December 2010
2 Field Project Chief, Kyakankwinpauk Reserved Forest	U Naing Win	B.Sc (Forestry),	Range Officer, Laputta Township (Birth Year: 1980)	--	P	(2007~2008) Deceased by Cyclone Nargis in May 2008.
3 Field Project Chief, Pyinalan RF	U Min Maung Maung	B.Sc (Forestry)	Range Officer, Laputta Township	27	P	Jan 2008~ Dec 2009

b Pyarpon Township

Responsible Activities of PDM	Name	Academic Background	Position in the Organization	Age	F/P	Project Assignment Period
5 Field Project Leader, Pyar Pon	U Nay Myo Htun	B.Sc (Forestry)	Staff Officer, Pyar Pon Township	44	P	July 2007 to Dec 2009



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RM-A Record of Myanmar Inputs**A-2. Allocation of Local Budget for the Project (as of January 2011)**

Unit=MMK

No.	Major Budget Item	FY2007-08	FY2008-09	FY2009-10	FY2010-11	Total
1	Office Space and Facilities	14,936,058	1,640,300	1,813,200	-	18,389,558
2	Land for Action Research Plantation	-	(212) Acre	(900) Acre	(400) Acre	(1512) Acre
3	Action Research Plantation	-	1,749,000	9,123,800	9,278,000	20,150,800
4	Seedlins for CF Plantation	3,932,500	3,388,000	4,077,700	4,513,300	15,911,500
5	Transportation	-	-	-	-	-
6	Mangrove Seminar, JCC	32,000	57,000	65,000	55,000	209,000
7	Tax, Labour & Maintenance	19,009,550	-	2,169,300	8,079,000	29,257,850
Total in Local Currency (MMK) excluding Salary for Local Staff		37,910,108	6,834,300	17,249,000	21,925,300	83,918,708
Total in US\$		43,827	7,901	19,941	25,347	97,016

No.	Major Budget Item	FY2007-08	FY2008-09	FY2009-10	FY2010-11	Total
1	Local Staff	23,532,000	23,532,000	23,532,000	32,412,000	103,008,000
Total in Local Currency (MMK) including Salary for Local Staff		61,442,108	30,366,300	40,781,000	54,337,300	186,926,708
Total in US\$		71,031	35,106	47,146	62,818	216,100

1US\$≐865MMK (March 2010)

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RM (4)



RM- B Record of Japanese Inputs

B-1-1. Assignment of Japanese Experts I (10 Persons in Total as of September 2010: 91.94m/m)

	Field	Name	Assignment Period	M/M (excluding M/M covered by NK)	Responsible Outputs and/or Activities of PDM (Planned)	Responsible Outputs and/or Activities of PDM (Actual)
1.	Chief Advisor	Shiro ARAI	2007/5/17 ~ 2007/10/19	25.73	Manage Overall Activities	Managed Overall Activities
2.			2007/12/13 ~ 2008/3/14			
3.			2008/5/14 ~ 2008/7/7			
4.			2008/10/2 ~ 2008/10/28			
5.			2009/1/13 ~ 2009/4/10			
6.			2009/6/23 ~ 2009/8/20			
7.			2009/9/7 ~ 2009/12/16			
8.			2010/1/19 ~ 2010/5/20 (4/12-17 Covered by NK)			
9.			2010/5/31~2010/6/30 (Covered by NK)			
10.			2010/7/1 ~ 2010/9/15 (8/26-8/30 Assigned as Participatory Community Development Expert)			
11.	Participatory Community Development / Coordinator	Tetsuya SAITO	2007/5/17 ~ 2007/8/4	19.57	1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-8, 1-9, 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8, 3-7, 4-1, 4-2, 4-4- 4-5, 4-6, 4-7, 4-8	1-1, 1-2, 1-3, 1-4, 1-6, (1-8), 2-1, 2-2, 2-3, 2-6, 2-7, 3-1, 3-3, 3-7, 4-4, 4-5, 4-6, 4-7, 4-8
12.			2008/1/3 ~ 2008/3/14			
13.			2008/5/19 ~ 2008/7/8			
14.			2008/7/27 ~ 2008/8/30 (8/2 ~ 8/3 Out of Country)			
15.			2008/10/2 ~ 2008/10/28			
16.			2009/1/20 ~ 2009/3/31			
17.			2009/4/9 ~ 2009/7/31			
18.			2009/11/12 ~ 2010/1/6			
19.			2010/1/7 ~ 2010/3/7			
20.			2010/3/8 ~ 2010/3/28 (3/29-4/8 Covered by NK)			
21.			2010/4/30 ~ 2010/5/25			
22.			2010/6/1 ~ 2010/6/30 (Covered by NK)			
23.	2010/7/1 ~ 2010/8/5					
24.	Mangrove Forestry I	Naohiro MATSUI	2007/5/27 ~ 2007/8/9	8.33	1-1, 1-2, 1-3, 1-4, 1-6, 1-9, 2-3, 2-5, 2-6, 2-7, 2-8, 3-1, 3-2, 3-4, 3-5, 3-6, 3-7	1-6, 2-3, (2-6), 3-1, 3-2, 3-4, 3-5, 3-6, 3-7
25.			2008/1/10 ~ 2008/2/23			
26.			2009/9/20 ~ 2009/10/14			
27.			2009/11/4 ~ 2009/11/28			
28.			2010/2/4 ~ 2010/3/2			
29.			2010/4/25 ~ 2010/5/20			
30.	2010/7/11 ~ 2010/8/6					
31.	Mangrove Forestry II / Agroforestry	Dexter CABAHUG	2007/6/28 ~ 2007/9/10 (Agroforestry: 2.50M/M)	5.87 (AF: 3.23M/M) (MF: 2.64 M/M)	1-1, 1-2, 1-3, 1-4, 1-6, 1-7, 1-9, 2-3, 2-5, 2-6, 2-7, 2-8, 3-1, 3-2, 3-4, 3-5, 3-6, 3-7	1-7, 2-3, 2-5, (2-6), 2-7, 3-1, 3-4, 3-5
32.			2008/10/7 ~ 2008/10/26 (Mangrove: 0.67M/M)			
33.			2009/3/6 ~ 2009/4/10 (Mangrove: 1.20 M/M)			
34.			2009/7/28 ~ 2009/8/19 (Mangrove: 0.77 M/M)			
35.			2010/3/6 ~ 2010/3/27 (Agroforestry: 0.73 M/M)			
36.	GIS 1	Akihito SAKURAI	2007/7/2 ~ 2007/10/19 (8/5 ~ 8/8 Out of Country)	8.3	1-4, 3-3, 4-2, 4-3	1-4, (2-6), 3-3, 4-2, 4-3, 4-6

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RM- B Record of Japanese Inputs

	Field	Name	Assignment Period	M/M (excluding M/M covered by NK)	Responsible Outputs and/or Activities of PDM (Planned)	Responsible Outputs and/or Activities of PDM (Actual)
37.			2008/1/10 ~ 2008/1/27			(basically 70-80% of all inputs were for CFECN rehabilitation work)
38.			2008/10/2 ~ 2008/10/28			
39.			2009/2/16 ~ 2009/3/26			
40.			2009/3/27 ~ 2009/4/10 (Covered by NK)			
41.			2009/7/12 ~ 2009/8/9			
42.			2010/4/22 ~ 2010/5/21			
43.			2010/5/22 ~ 2010/6/17 (Covered by NK)			
44.	GIS 2	Itaru MORITA	2008/7/27 ~ 2008/8/30	1.17	4-2, 4-3	(2-6), 4-3
45.	Training/Extension	Tomohiro SHIBAYAMA	2009/1/19 ~ 2009/2/12	8.97	2-5, 2-6, 2-7, 2-8, 3-3, 4-6	(2-6), 3-3 (basically all inputs were for CFECN rehabilitation work)
46.			2009/3/17 ~ 2009/4/10			
47.			2009/5/18 ~ 2009/6/30			
48.			2009/8/25 ~ 2009/9/30			
49.			2009/11/6 ~ 2009/11/28			
50.			2010/3/1 ~ 2010/4/12			
51.			2010/5/12 ~ 2010/6/28 (covered by NK)			
52.	2010/7/6 ~ 2010/9/15					
53.	Fish Culture	Tsuneo IWAO	2007/5/17 ~ 2007/8/6	10.33	1-1, 1-3, 1-4, 1-7, 1-9, 2-3, 2-5, 2-6, 2-7, 2-8	1-3, 1-7, 1-8, 1-9, 2-3, 2-5, (2-6), 2-7, 4-6
54.			2008/1/10 ~ 2008/2/8			
55.			2009/1/13 ~ 2009/4/1			
56.			2009/11/28 ~ 2010/1/24			
57.	2010/7/11 ~ 2010/9/9					
58.	Marketing	Akeshi MORI	2007/6/17 ~ 2007/8/20	3.67	1-2, 1-7, 1-8, 1-9	1-2, 1-7, 1-8, 1-9, (2-6)
59.			2010/1/8 ~ 2010/2/21			
60.	Coordinator	Kouiku OGAWA	2007/5/17 ~ 2007/6/15 (6/16 ~ 10/19 Covered by NK)	8.40*	4-5, 4-6	4-5, 4-6
61.			2007/12/13 ~ 2008/1/11 (1/11 ~ 3/17 Covered by NK)			
Total M/M (excluding M/M covered by NK)				91.94		

* Actual Month of Input (Coordinator).

Note: "(1-7)", "(2-6)" means relevant OJT were conducted but not fully in accordance with the activity
(Activity 2-6 indicated in parenthesis under "Responsible Outputs and/or activities of PDM (Actual)")

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RM- B Record of Japanese Inputs

B-1-2. Assignment of Japanese Experts II (December 2010 to March 2011 as of February 09, 2011)

	Field	Name	Assignment Period	M/M (excluding M/M covered by NK)	Responsible Outputs and/or Activities of PDM (Planned)	Responsible Outputs and/or Activities of PDM (Actual)
1.	Chief Advisor/ Agroforestry	Shiro ARAI	2010/12/15 ~ 2010/12/29	1.00	Manage Overall Activities	Manage Overall Activities
2.			2011/02/18 ~ 2011/03/05 (2/18 Covered by NK)			
3.	Deputy Chief Advisor/ Community Forestry 1 (Participatory Community Development 1)	Tomohiro SHIBAYAMA	2010/12/12 ~ 2011/03/11	3.00	Manage Overall Activities	Manage Overall Activities
4.	Community Forestry 2 (Participatory Community Development 2)	Hiromi YASU	2010/12/16 ~ 2011/1/25 (1/25 Covered by NK)	1.00	1-2, 1-4, 1-8, 1-9, 2-8,	1-2, (checking/ recompilation of 1-2)
5.	Mangrove Forestry I	Naohiro MATSUI	2010/12/19 ~ 2011/02/01	1.50	3-1, 3-2, 3-4, 3-5, 3-6, 3-7	3-1, 3-2, 3-4, 3-5, 3-6,
6.	GIS 1	Akihito SAKURAI	2011/01/16 ~ 2011/02/27 (2/15-2/27 Covered by NK)	1.00	3-3, 4-2, 4-3	3-3, 4-2,
7.	Training/Extension/ Marketing/ Coordinator	Mana TANAKA	2010/12/12 ~ 2011/02/09 (Coordinator)	2.00*	2-5, 2-6, 2-7, 2-8, 4-6,	4-6, (other coordination work)
8.			2011/02/10 ~ 2011/03/11	1.00		
9.	Fish Culture	Tsuneo IWAO	2010/12/19 ~ 2011/01/29	1.40	1-7, 2-6, 2-7, 2-8	1-7, 2-6, 2-7
Total M/M (excluding M/M covered by NK)				9.90		

* Actual Month of Input (Coordinator).

B- 2. List of Myanmar Personnel Trained in Japan (8 person in total)

GRT: Group Training Course
C/P: Counterpart Training Course

	Name	Position/Organization at the time of training	Training Period	Title of Training Course	Remarks (Position/organization at the time of evaluation)
1.	U Naing Win	Range Officer	2007/5/29~ 2007/8/18	Conversation and Sustainable Management of Mangrove Ecosystem (GRT)	Deceased during Cyclone Nargis in May 2008.
2.	U Win Maung	Assistant Director, Myanmar District, Ayeyarwaddy Division	2007/10/21~ 2007/11/11	Seminar on Forest Management Policy- Sustainable Forest Management with Collaboration of Local Government and Community (C/P)	Director, Dry Zone Greening Department, Magway Division
3.	U Win Maung Aye	Range Officer, Pyarpon Township	2008/5/27~ 2008/8/16	Conversation and Sustainable Management of Mangrove Ecosystem (GRT)	Same
4.	U Sein Htun	Director, Planning and Statistic Division	2008/10/5~ 2008/10/26	Seminar on Forest Management Policy- Sustainable Forest Management with Collaboration of Local Government and Community (C/P)	Same
5.	U Zaw Min Htun	Range Officer, Pyarpon Township	2009/5/26~ 2009/8/15	Conversation and Sustainable Management of Mangrove Ecosystem (GRT)	Same
6.	U Myo Min Tun	Range Officer, Bogalay Township	2009/9/23~ 2009/11/7	Environmental Education For Sustainable Development-Conservation of Coastal Ecosystems for Lives of Local	Same

RM (7)

RM- B Record of Japanese Inputs

	Name	Position/Organization at the time of training	Training Period	Title of Training Course	Remarks (Position/organization at the time of evaluation)
				Communities (GRT)	
7.	U Toi Chin Khai	Staff Officer, Planning and Statistics Division	2010/5/25~2010/8/14	Conservation and Sustainable Management of Mangrove Ecosystems (GRT)	Same
8.	U Win Maw	Staff Officer, Planning and Statistics Division	2010/5/25~2010/8/14	Conservation and Sustainable Management of Mangrove Ecosystems (GRT)	Assistant Director, Planning and Statistic Division, NPT

For reference: List of Myanmar Personnel participated in technical exchange program

(Cost for technical program is included in local activity cost under training)

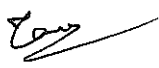
(1) List of Myanmar Personnel Trained in Vietnam (5 person in total)

	Name	Position/Organization at the time of training	Period	Title of Training Course	Remarks (Position/organization at the time of evaluation)
1	U Khin Maung Lwin	Field Project Manager, MCFTF, Assistant Director, FD Myaung Mya District	6 Days (2009/03/23~28)	Technology Exchange Program 2008 "Melaleuca Plantation Technologies"	Same
2	U Kan Htun	Staff Officer, FD Bogalay Township, MCFTF	6 Days (2009/03/23~28)	Technology Exchange Program 2008 "Melaleuca Plantation Technologies"	Same
3	U Win Maung Aye	Range Officer, FD Pyar Pon Township, MCFTF	6 Days (2009/03/23~28)	Technology Exchange Program 2008 "Melaleuca Plantation Technologies"	Same
4	U Myo Min Htun	Range Officer, FD Bogalay Township, MCFTF	6 Days (2009/03/23~28)	Technology Exchange Program 2008 "Melaleuca Plantation Technologies"	Same
5	U Min Maung Maung	Range Officer, FD Laputta Township, MCFTF	6 Days (2009/03/23~28)	Technology Exchange Program 2008 "Melaleuca Plantation Technologies"	Transferred to Mandalay Division Thaug Tha Township (RO)

(2) List of Myanmar Personnel Trained in Thailand (5 person in total)

	Name	Position/Organization at the time of training	Period	Title of Training Course	Remarks (Position/organization at the time of evaluation)
1	U Kyi Lin	Staff Officer, FD Pyar Pon, MCFTF	7 Days (2010/02/28~3/6)	Technology Exchange Program 2009 "CF Activities and Aquaculture in Delta Area"	Same
2	U Kyaw Kyaw Myo	Range Officer, FD Bogalay, CDFTF	7 Days (2010/02/28~3/6)	Technology Exchange Program 2009 "CF Activities and Aquaculture in Delta Area"	Same
3	U Tun Win Aung	Deputy Fishery Officer, Department of Fishery (DOF)* Pyin Salu Sub Township	7 Days (2010/02/28~3/6)	Technology Exchange Program 2009 "CF Activities and Aquaculture in Delta Area"	-
4	U Naing Win Thein	Deputy Fishery Officer, DFO Mye Bone Township	7 Days (2010/02/28~3/6)	Technology Exchange Program 2009 "CF Activities and Aquaculture in Delta Area"	-
5	U Kyaw Min	DFO, Chaung Tar Research Center, Pathein	7 Days (2010/02/28~3/6)	Technology Exchange Program 2009 "CF Activities and Aquaculture in Delta Area"	-

* DFO: Supporting Agency of this Project (Ex. Oyster Culture, Aqua-Agroforestry)




RM-B Record of Japanese Inputs

B-3 List of Equipment Provided by Japanese Side
(1) Equipment already handed over to the Myanmar side

No.	Item	Specification	Unit Price	International or local procurement	Qn	Total Price	Location	Responsible Person	Responsible Organization	Date of Purchase	Date of Delivery	Use Mgt (*1) (*2)	# of disposed eqpt	Relevant major activity # of PDM
1	Vehicles	Toyota New Hilux 4X4 Double Cablo	USD 32,689	Thailand	2	USD 65,377 YGN	YGN	U Soe Win Hlaing	FD	2007/11/24	2007/11/29	A B	0 2	Output-4 (A1)
2	GPS	Magella Explorer XL GPS	USD 515	Local	3	USD 1,545	BGL, PYP NPT GIS Section	U Soe Win Hlaing	FD	2007/08/4	Aug 2007	A B	2 6	1-2
3	Satellite Images	LandSat 7 ETM Path:133 / Row:49 (ICD)	USD 350	Local	1	USD 350	GIS Section	U Soe Win Hlaing	FD	2007/09/4	N/A	A	1 0	4-2
4	GPS Chargers	Panasonic Quick Battery Charger K-KJP59TM	USD 28	Local	3	USD 84	BGL, PYP, NPT GIS Section	U Soe Win Hlaing	FD	2007/6/16	N/A	A B	2 6	1-2
5	Boat for Reserved Forest	Fiber Glass Boat	USD 3,500	Local	3	USD 10,500	LPT, PYP, BGL	U Soe Win Hlaing	CFECH, FD	2008/1/12	2008/1/17, 15/Jan/2008, BYM BGL: 22/Jan/2008, TYK LPT: Beginning of Feb 2008	A D	2 1	Output-4 (A1)
6	PC and Office for GIS	Dell Optiplex 755 Tower System, Office 2007	USD 2,139	Local	1	USD 2,139	NPT GIS Section	U Soe Win Hlaing	FD	2008/1/22	2008/1/24	A B	0 1	4-2
7	UPS	Power Tree 650W	USD 48	Local	1	USD 48	NPT GIS Section	U Soe Win Hlaing	FD	2008/1/22	2008/1/24	A B	0 1	4-2
8	A3 Size Printer	Epson Stylus Photo 1390 (A3 Size)	USD 468	Local	1	USD 468	NPT GIS Section	U Soe Win Hlaing	FD	2008/1/22	2008/1/24	A B	0 1	4-2
9	GIS Software	TNTmips ver.2007.7.3	USD 7,800	Local	1	USD 7,800	NPT GIS Section	U Soe Win Hlaing	FD	2008/1/24	2008/1/24	A B	0 1	4-2
10	Radio-Phone	SENNO 9999, SENNO 678 Model Accessories	USD 623	Local	5	USD 3,116	LPT, PYP, BGL	U Soe Win Hlaing	CFECH, FD	2008/1/25	2008/2/1	- D	5 0	Output-4 (A1)
11	Generator	7.5 KVA, 13HP Engine	USD 1,695	Local	1	USD 1,695	LPT	U Soe Win Hlaing	FD	2008/2/14	2008/3/28	A B	0 1	Output-4 (A1)
12	Survey Materials	SK Poligrass Pole	JPY 23,310	Japan	4	JPY 93,240	(Confirmation)	U Soe Win Hlaing	FD	2008/5/30	(confirming)	-	- 1	1-2
13	Satellite Images	LANDSAT 5/TM, ENVISAT ASAR Image, ALOS PALSAR (NO UNIT COST)	JPY 1,065,400	Japan	9	JPY 1,065,400	NPT GIS Section	U Soe Win Hlaing	FD	2008/7/18	2008/7/29	A A	0 9	4-3
14	Survey Materials for Forestry	Measuring Tape / Pole	USD 45	Local	1	USD 45	LPT, BGL, PYP	U Khin Maung Lwin	FD	2008/9/3	2008/9/1	A A	0 1	1-2
15	Engine Pump	775 Engine (Ring Brand) for water pump.	USD 598	Local	2	USD 1,196	LPT	U Win Hlaing	FD	2009/2/22	N/A	A A	0 2	3-5
16	GIS Software	GIS Software (Map 7.4 USB License Key)	USD 7,500	Local	1	USD 7,500	NPT GIS Section	U Aye Myint Maung	FD	2009/2/25	2009/3/3	A A	0 1	4-3
17	GPS Unit	Garmin Colored 300	USD 680	Local	8	USD 5,440	YGN	U Saw Hlaing	SLRD	2009/4/6	2009/7/3	A A	0 8	1-2, 4-2
18	Boat	Fiber Glass Boat (TY 2)	USD 3,600	Local	2	USD 7,200	LPT, BGL	U Aye Myint Maung	FD	2009/7/17	N/A	A A	0 2	Output-4 (A1)
19	Total Stations	Horizon HTS 582 RX	USD 7,230	Local	2	USD 14,460	YGN	U Saw Hlaing	SLRD	2009/7/28	2009/7/29	A A	0 2	1-2, 4-2

RM (9)

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RM-B Record of Japanese Inputs

No.	Item	Specification	Unit Price	International or local procurement	Qn	Total Price	Location	Responsible Person	Responsible Organization	Date of Purchase	Date of Delivery	Use Mgt. (*1)	# of disposable eqpt	Relevant major activity # of PDM
20	Boat	Cargo Boat (QTY:3) for BG L, LPT, PYP	USD 9,800	Local	3	USD 29,400	PYP, LPT, BGL	U Aye Myint Maung	FD	2009/8/12	BGL:2009/5/3 LPT:2009/5/16 PYP:2009/9/10	A A A	0 0 3	Output-4 (A)B
21	Satellite Data	ALOS AVN R 2	JPY 85,117	Japan	6	JPY 510,702	NPT, G B	U Aye Myint Maung	FD	2009/8/27	2009/7/29	A A	0 0 6	4-3
22	Boat	20ft local call 14 taung	USD 240	Local	8	USD 1,920	KKKL, BYM, TYK, TGT	U Aye Myint Maung	CFECON, FD	2010/2/20	2010/2/25	A A	0 0 8	Output-4 (A)B
23	Desktop	Dell P4 Pentium System, XP, Office 2003, Antivirus	USD 1,068	Local	2	USD 2,136	NPT (GIS)	U Aye Myint Maung	FD	2010/3/25	2010/3/25	A A	0 0 2	4-3
24	Generator	7.5 Kva	USD 957	Local	4	USD 3,828	KKKL, BYM, TYK, TGT	U Aye Myint Maung	CFECON, FD	2010/5/7	May 2010	A A	0 0 4	Output-4 (A)B
25	CDMA SIM	Coastal CDMA Phone SIM & ZTE 52 OC	USD 1,827	Local	2	USD 3,654	TYK, KKKL	U Aye Myint Maung	CFECON, FD	2010/5/13	2010/6/17	A A	0 0 2	Output-4 (A)B
26	CDMA SIM	Coastal CDMA Phone SIM & ZTE 52 OC	USD 1,880	Local	1	USD 1,880	TGT	U Aye Myint Maung	CFECON, FD	2010/5/18	2010/6/12	A A	0 0 1	Output-4 (A)B
27	CDMA SIM	Coastal CDMA Phone SIM & ZTE 52 OC	USD 1,665	Local	1	USD 1,665	BYM	U Aye Myint Maung	CFECON, FD	2010/5/24	2010/6/10	A A	0 0 1	Output-4 (A)B
28	Handpush Carrier		USD 143	Local	4	USD 572	KKKL, BYM, TYK, TGT	U Aye Myint Maung	CFECON, FD	2010/7/1	Sep 2010	A A	0 0 4	3-3, 3-4
29	TV Set	SONY BRAVIA EX4/32	USD 658	Local	4	USD 2,632	KKKL, BYM, TYK, TGT	U Aye Myint Maung	CFECON, FD	2010/9/10	TGT:2010/12/25 BYM:2010/12/27 TYK:2011/1/15 KKKL:2011/1/15	A A	0 0 4	4-8
30	DVD	LG DVD 497	USD 96	Local	4	USD 392	KKKL, BYM, TYK, TGT	U Aye Myint Maung	CFECON, FD	2010/9/10	TGT:2010/12/29 BYM:2010/12/26 TYK:2010/12/26 KKKL:2010/12/24	A A	0 0 4	4-8

*1 Use: A-Frequently (almost ever day), B-Sometimes (1-3 a week), C-Use concentrated on particular period, D-Rarely (1-3 times a year), E- No use due to particular reasons
 *2 Mgt: A: Always possible to use with sufficient maintenance, B-Almost no problem in use, C-Possible to use if repaired, D-Difficult to use
 N/A: data is not available
Black&Underline: Procurement from JICA Office

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RM- B Record of Japanese Inputs

(2)Equipment yet to be handed over to the Myanmar side
 Project Equipment List
 (USD = 90 Yen)

	Specification	Int'l or Local Procurement	QTY (Project Use)	Purchased Date	# of disposed eqpt	
1	Life Jacket (10)	Espada FW 2 (QTY 10)	Japan	8	N/A	8
2	GPS	Magella Explorist XL GPS	Local	3	2007/6/4	2
3	Desktop PC (1)	Dell Dimension 3100 Desktop	Local	1	2007/6/19	0
4	OS	Microsoft Office SB 2003 SP OEM Pack (QTY2)	Local	2	2007/7/20	0
5	Desktop&UPS	Dell Dimension E529 Desktop & UPS 1000W 8 VC	Local	1	2007/7/11	0
6	GPS Charger (8)	Panasonic Quick Battery Charger K-KJP59TM	Local	3	2007/6/16	2
7	A3 Printer	IX 4000 Printer (A3)	Local	1	2007/6/13	0
8	Photocopy Machine (1)	IR-2020 Copier	Local	1	2007/6/13	0
9	Laser Printer (1)	Canon Laser Shot LBP2900	Local	1	2007/6/13	0
10	Phone & Fax Machine	8-155	Local	1	2007/6/13	0
11	UPS MYM (1)	UPS 600VA 8VC	Local	1	2007/6/29	0
12	Dram	Duplix Unit A1 (for Photocopy)	Local	1	2007/7/25	0
13	Portable Generator (1)	YAMAHA EF 1000B	Local	1	2007/7/26	0
14	Generator MYM (1)	30 KVA Olympian Model GE133-1	Local	1	2007/10/11	0
15	Desital Video Camera	Panasonic HDC SD 5, Camera Stand, Vattery VW-VBG260 K, SDHC Cade (4GB)	Japan	1	2007/12/10	0
16	GIS A3 Scanner	Epson GT15000 Scanner (A3)	Local	1	2008/2/13	0
17	Air Conditioner (MYM)	2 H.P Daikin Split Type Airconditioner	Local	2	2008/2/27	0
18	Speaker & Audio	BEHRINGER A.M.P	Local	1	2008/3/4	0
19	Stabilizer (MYM)	30 KVA	Local	1	2008/3/10	0
20	Radio (2)	Rad S711 N	Japan	2	2008/5/15	0
21	Portable Generator (1)	Yamaha EF 1000 Generator	Local	1	2008/5/16	0
22	Air Conditioner	Mitsubishi 2.0 HP	Local	2	2008/10/18	0
23	Desktop PC (1)	Dell Power Edge T105 Tower System & XP OS, MS Office & UPS	Local	1	2008/10/21	0
24	A4 Printer (1)	Canon LBP 3050 Lasejet (A4)	Local	1	2008/10/21	0
25	Safety Boat (1)	Pharku Boat (50' x 14' x 4.5')	Local	1	2008/10/25	0
26	CDMA Phone (1)	Hisense D 186 (mobile phone)	Local	1	2009/1/29	1
27	CDMA Phone & SIM Card (2)	CDMA Costal RUIIM Card (MYM Base)	Local	2	2009/2/3	0
28	LifeRaft Boat (2)	Life Raft (6 people)	Local	2	2009/2/6	0
29	CDMA Phone	Hisence D 186 Handset (QTY 1)	Local	1	2009/2/11	0
30	CDMA Phone (1)	ZTE Model WP520	Local	1	2009/7/8	0
31	CDMA Phone & SIM (1)	Coastal CDMA Phone SIM & ZTE 52	Local	1	N/A	0
32	Handpush Carrier		Local	4	2010/7/1	0
33	TV Set	SONY BRAVIA EX4/32	Local	1	2010/9/10	0
34	DVD	LG DVD497	Local	1	2010/9/10	0

RM (11)

Case

RM- B Record of Japanese Inputs

Summary of Total Expense for Project Equipments (JPY)

		June 2007~ Oct2007	Dec 2007~ March2008	May 2008~ Oct2008	Jan 2009~Aug 2009	Sep 2009~Sep 2010	
	JFY2006	JFY2007	JFY2007	JFY2008	JFY2008~10	JFY2008~10	Total
FY TOTAL (JPY)	128,000	3,520,000	3,875,000	3,767,000	7,383,000	2,604,000	21,277,000

Some Expert Equipments were handed over to FD counterparts, so the summary of actual input is as follows.



RM-B Record of Japanese Inputs

B-4. Disbursement of Local Activity Cost (as of September 2010)

Disbursement of Local Activity Cost (as of September 2010)

	Jan-07	June 2007~Oct2007	Dec 2007~March2008	May 2008~Oct2008	Jan 2009~Aug 2009	Sep 2009~Sep 2010	Total
	JFY2006	JFY2007	JFY2007	JFY2008	JFY2008-10	JFY2008-10	
1 Local Staff		15,221	9,571	21,882	24,215	56,546	127,435
2 Training		3,022	10,686	12,070	24,606	81,432	131,816
3 ARP		986	5,584	2,018	58,824	52,098	119,510
4 CFECN Renovation & Construction		0	87,360	0	0	0	87,360
5 Cyclone Monitoring Survey				6,132	0	0	6,132
6 CFECN Rehabilitation				0	12,615	852,617	865,232
7 Others		35,994	42,188	28,998	31,040	51,083	189,283
8 JICA Myanmar Office (Site Visit Cost)	7,980						
Total in USD	7,980	55,222	155,389	71,100	151,300	1,093,756	1,534,747
JPY Total (1USD = 90JPY)	718,195	4,970,000	13,985,000	6,399,000	13,617,000	98,438,000	138,127,195

JICA Office Expense (FY2006)	JICA Expense (USD)		JFY2008-10	
	USD	MMK	USD	YEN
Site visit	1,701	153,090	106,038	9,543
(2007/1/9-1/13)	782,400	70,416,000	865,232	77,871
	408,625	36,776,250	110,922	10,083
		(1USD = 450 MMK)	1	90

- 1 Local Staff is the salary for local staff in JET office including boat drivers and drivers.
- 2 Training includes output 1, output 2, output 3, output 4 including C/P allowance (output2).
- 3 ARP: Action Research Plantation cost is mainly for labor cost of ARP plantation and monitoring.
- 4 Construction cost includes renovation / construction of CFECN in four sites.
- 5 Cyclone Monitoring Survey is a newly added activity after Cyclone Nargis
- 6 CFECN Rehabilitation is a cost of renovating/re-constructing CF centers also serve as cyclone shelters after Cyclone Nargis
- 7 Others includes domestic domestic travel cost, maintenance, consumables, printing etc.



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RM C Data related to some Indicators

C-1 Data for Indicator 1a for Output 1

Village	Township	Reserve Forest	(1) CF Management Development			(2) Area of rehabilitation/management according to the Management Plan							(3) Area to be rehabilitated and managed by the Project end							(4) Rehabilitated/managed area so far		
			a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q			
I. CGUSGs organized in 2009																						
1	Kwa Kwa Ka Lay	LPT	Sep 2009 (A)	Sep 2009 (A)	Not yet	417.56	45	463	0	100	70	82	82	334	45	379	170	45	215			
2	Kanbala Ta Pin	LPT	Sep 2009 (A)	Sep 2009 (A)	Not yet	520	260	780	0	100	10	256	83	449	260	709	110	260	370			
3	Nyaung Ta Pin	LPT	C	Jun 2003 (B)	(Jun 03)	150	488	637.5	288	0	25	n/a	n/a	n/a	488	n/a	25	488	513			
4	Thar Yar Kone	LPT	C	Jun 2003 (B)	(1998)&(Jun 03)	580	715	1295.18	1100.15	0	25	n/a	n/a	n/a	715	n/a	25	715	740			
5	Ahpyin Paede Gaw	BGL	May 2009 (A)	May 2009 (A)	Not yet	50	0	50	0	50	0	0	0	50	0	50	50	0	50			
6	Shwe Pyi Thar	BGL	May 2009 (A)	May 2009 (A)	Not yet	50	0	50	0	50	0	0	0	50	0	50	50	0	50			
7	Hlaung Gyi Tan	PYP	Jun 2009 (A)	Jun 2009 (A)	Not yet	100	0	100	0	100	0	0	0	100	0	100	100	0	100			
II. CFUSGs organized in 2010																						
8	Peine Kone	LPT	C	1988 (C) or Feb 2002 (C)	(Dec 95)	40	740	780	780	25	25	n/a	n/a	n/a	740	n/a	25	740	765			
9	Gway Chaung Gyi	BGL	Jul 2010 (A)	Jul 2010 (A)	Not yet	50	0	50	0	50	50	0	0	50	0	50	50	0	50			
10	Darning Daung	BGL	Aug 2010 (A)	Aug 2010 (A)	Not yet	50	0	50	0	50	50	0	0	50	0	50	50	0	50			
11	Gaw Du	PYP	Dec 2010 (A)	Dec 2010 (A)	Not yet	35	0	35	0	35	35	0	0	35	0	35	35	0	35			
Total/Average						2,043	2,248	4,291	2,168	400	250	n/a	n/a	n/a	2,248	n/a	690	2,248	2,938			

RM C Data related to some indicators

C-2 Data for Indicator 1b for Output 1

		Data for Indicator 1b									
Village	Township	Reserved Forest	Year in which MP are developed/updated a/f Nargis	Type of Income Generation Support as of Feb 2010	No. of sub-group members	Expected timing of the first harvest	Inclusion of the activities in the latest CF Management Plan	No. official CFUSG members (max)	No. official CFUSG members (min)	Remarks	
I. CFUSGs organized in 2009											
1	Kwa Kwa Ka Lay	Laputta	Kyakankwi npauk	Sep 2009 (A)	Oyster	6	Jun-Sep 2011	✓	162	36	Group leader is CFUSG chairman. Trial suspended due to theft
2	Kanbala Ta Pin	Laputta	Pyinalan	Sep 2009 (A)	Oyster	7	Jun-Sep 2011	✓	44	31	There were 2 group before but only one active
3	Nyaung Ta Pin	Laputta	Pyinalan	C	Oyster	19	Jun-Sep 2011	x	63	63	
4	Thar Yar Kone	Laputta	Pyinalan	C	No support						
5	Ahpyin Pade Gaw	Bogalay	Kadonkani	May 2009 (A)	No support						
6	Shwe Pyi Thar	Bogalay	Pyindaye (North)	May 2009 (A)	Aqua-agroforestry	6	Mar-10	X	126	126	For house consumption
7	Htaung Gyi Tan	Pyarpon	Pyindaye (South)	Jun 2009 (A)	Oyster	25	Jun-Sep 2011	x	26	26	
II CFUSGs organized in 2010											
8	Peine Kone	Laputta	Pyinalan	C	No support						
9	Gway Chaung Gyi	Bogalay	Kadonkani	Jul 2010 (A)	No support						
10	Daming Daung	Bogalay	Pyindaye (North)	Aug 2010 (A)	No support						
11	Gaw Du	Pyarpon	Pyindaye (South)	Dec 2010 (A)	Oyster	32	Jun-Sep 2012	x	100	100	5 groups (under formulation)
Sub-total/Average for Oyster culture trial						89			395	256	
Sub-total/Average for aqua-agroforestry						6			126	126	
Total/Average						95		6	521	382	

RM (15)

C-3 Data for Indicator 4e of Output 4

List of seminars to promote synergy among the relevant sector on Integrated Mangrove Management

	Year	Mth	Title of Seminar	# of participants	Organization of participants
1.	2008	Jan	Mangrove Seminar 1: Introduction and sharing of the Project and importance of mangrove (Myaung Mya District)	Approx. 30	<ul style="list-style-type: none"> - District Peace and Development Council (PDC), - Laputta Township Peace and Development Council - MCFTF (FD) Myaung Mya District, Laputta Township) - District Myanmar Agriculture Service (MAS) - District Department of the Fishery (DoF) - District Settlement and Land Record Department (SLRD) - Patheingyi Univ, Faculty of Fishery - Woman's Association, - NGOs (MSN, ADRA, World Vision and METTA) - Myaung Mya Agriculture School - Myaung Mya Trader Association
2.	2008	Jan	Mangrove Seminar 2: Introduction and sharing of the Project and importance of Mangrove (Pyar Pon District)	Approx. 30	<ul style="list-style-type: none"> - District PDC, - Pyar Pon/ Bogalay Townships PDCs - MCFTF (FD) Myaung Mya District, Pyar Pon/ Bogalay Townships) - District MAS - District DoF - District SLRD - Woman's Association, - NGOs (MSN, ADRA, World Vision and METTA)
3.	2009	Oct	Mangrove Seminar 3: Effects of Coastal Woodlots (Bogalay Township)	34	<ul style="list-style-type: none"> - MCFTF (FD) Myaung Mya District, Pyar Pon/ Bogalay Townships) - Township MAS - Township DoF - Township SLRD - NGOs
4.	2009	Nov	Mangrove Seminar 4: Potential Use of Melaleuca in the Ayeyawady Delta as fuel woods and poles. (LPT Township)	42	<ul style="list-style-type: none"> - Laputta District PDC, - Laputta Township PDC - MCFTF (FD) Myaung Mya District, Laputta Township) - District MAS - District DoF - District SLRD - NGOs
5.	2011	Jan	Mangrove Seminar 5: Hazard Map and Land Cover / Use Changes (Nay Pi Taw)	21	<ul style="list-style-type: none"> - Planning and Statistics Division, FD - Watershed Management Division FD - MCFTF, FPM
6.	2011	Feb	Mangrove Seminar 6: Hazard Map and Land Cover / Use Changes (KKKL CFEEN: Part of Inauguration Ceremony)	Approx. 40	<ul style="list-style-type: none"> - MCFTF(Ayawady Region, MYM district, Laputta Township) - District/ Township/ Village Tract PDC - MAS - SLRD - DoF - NGOs - JICA

Yes

(17)

RM C Data related to some Indicators

C-4 Data for Indicator a for the Project Purpose

	(1) Area to be rehabilitated by the Project end through CF						(2) Area to be planted through Action Research							Total	
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
Reserve Forest	Area of CF rehabilitated by CFUSG so far (2009)	Area of CF rehabilitated by CFUSG (2010)	Area of CF rehabilitated by CFUSG (2011)	Area of CF rehabilitated by CFUSG (2012)	Total Area to be rehabilitated by the Project end	Total area rehabilitated so far	2008	2009	2010	2011	2012	Total area to be planted by the Project end	Total area to be planted so far	Total area to be planted by the Project end	Total area planted so far
	(actual)	(actual)	(plan)	(plan)	a+b+c+f	a+b	(actual)	(actual)	(actual)	(plan) (indicative)	(plan)	g+h+i+j+k	g+h+i	e+f	f+m
1 Kyakanikwmpau	100	70	n/a	n/a	n/a	170	0	250	120	0	0	370	370	n/a	540
2 Pynalan	100	85	n/a	n/a	n/a	185	0	250	120	0	0	370	370	n/a	555
3 Kadonkani	50	50	0	0	100	100	212	200	80	21	0	513	280	613	380
4 Pynclaye	150	85	0	0	235	235	0	26	80	24	0	130	106	365	341
Total	400	290	0	0	n/a	690	212	726	400	45	0	1,383	1,126	n/a	1,816

List of Project Deliverables as of September 2010

Overall

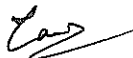
Project Progress Report (March 2009, September 2009)
Annual Completion Report (2007-1, 2007-2, 2008-1, 2009-2010)
Rapid Field Survey Report (June 2008)
Project Operation Manual (FY2010 Version 1)

Output 3

Community Forestry Extension Centre Nursery Kwa Kwa Ka Lay
Community Forestry Extension Centre Nursery Byone Hmwe
Community Forestry Extension Centre Nursery Thar Yar Kone
Community Forestry Extension Centre Nursery Htaung Gyi Tan

Output 4

Project Calendars 2008, 2009, 2010
Mini-Newsletter (No.1 ~ No.3)
Poster (No.1 RECOFTC, No.2 Oyster Culture, No.3 Hazard Map)
Project T-Shirts
Project Signboard, FD Bogalay Township
Japanese Newsletter "Mangrove Dayori" (No. 1 ~ No. 28)



合同中間レビュー報告書 別添6のPDM2 案誤訂正版 (仮訳・直訳)
PDMバージョン: 2

承認日: ****

1. プロジェクトタイトル:「エーヤーワディ・デルタ住民参加型マングローブ総合管理計画プロジェクト」

2. プロジェクト期間: 2007年4月~2013年3月

3. 対象地域: エーヤーワディ・デルタ内の4ヶ所の保全林区(RF) (チャカクインバク、ピナラン、カドカンニ、ピンダイエ)

4. 受益者: 4ヶ所のRFにおいてコミュニティ林業(CF)を実施するコミュニティ林業(CF)を実施するコミュニティ及びミャンマー国林業省森林局のCFタスクフォース(CFTF)メンバーとその他の関連職員

プロジェクトの要約	客観的に検証可能な指標	指標入手段	外部条件
<p>上位目標: エーヤーワディ・デルタ内のマングローブ林が持続的に管理され、コミュニティの貧困が緩和される</p> <p>プロジェクト目標: エーヤーワディ・デルタ内のプロジェクト活動が実施される地域において、コミュニティとマングローブ林が持続的に共生する</p>	<p>a. プロジェクト終了から3年以内に、本プロジェクト対象地域において、マングローブ林の被覆面積が X acres (Y ha) (*1) 増加する</p> <p>b. 対象地域のコミュニティの所得水準が 2004年 に比べて上がる。</p> <p>a. プロジェクト終了までに、プロジェクト活動が実施された地域 (CF植林地、CF-天然林改善施設 (NFIO) 対象地、及びアクシオン・リサーチ用植林地) において、マングローブ林の被覆面積が、基準年 (2009年) に比べて、X エーカー (Y ha) (*2) 増加する</p> <p>b. プロジェクト終了時に、2011年に再選定された全ての対象CFユース・グループ (CFUSG) の登録メンバーの8割以上が、CFを有用だとみなす</p>	<p>a. プロジェクト報告書</p> <p>b. CF インパクト調査の結果</p>	<p>1 CF生産物に有利な市場が存在する</p> <p>2 RF4ヶ所の管理に関する森林局の方針が大幅に変わらない</p> <p>3 マングローブ林の持続的管理のために、十分な財政的その他の資源が配分される</p>
<p>アウトプット:</p> <p>1. 選定されたコミュニティが環境的にも、経済的にも持続的なコミュニティ林業(CF)を実施する</p> <p>2. 森林局のCF管理・支援体制が効果的である</p>	<p>1a 2011年7月までに、2011年3月に再選定されたCFUSGの全てのCF管理計画が作成/更新される</p> <p>1b プロジェクト終了までに、2011年に再選定された全ての対象CFUSGの運営委員会(MC)の組織能力が、プロジェクトの認定するX段階評価のY以上の水準に達する</p> <p>1c 2011年に再選定されたすべてのCFUSGの承認されたCF管理計画(CF植林・NFIOを含む)が、年間計画に基づき、実行される</p> <p>1d プロジェクト終了までに、Xエーカー (Yha) (注3) 以上のマングローブ林が、2011年に再選定されたCFUSGによって、承認されたCF管理計画に基づき、復旧・管理される(CF植林、NFIOを含む)</p> <p>1e プロジェクト終了までに、2011年に再選定されたすべての活発なCFUSGが、承認されたCF管理計画に記載されたCF活動及びプロジェクトの支援する所得創出活動によって、利益を得る</p> <p>2a プロジェクト終了までに、プロジェクトに2年以上従事しているCFタスクフォース技術メンバーのX%が、CF管理及び普及・支援について、平均して、プロジェクトが職別別に設定したY段階評価のZ以上の水準に達する</p> <p>2b 2001年に再選定されたCFUSGの登録メンバーの8割以上が、自身の受けたCF普及サービスの「理解度」「適用度」「満足度」について、平均で3段階の中以上の評価を与える。</p> <p>2c プロジェクト終了までに、森林局局长による確認とさらなる措置のために、マングローブ林のCFのための研修プログラム(研修資料を含む)が、既存のものをもとに開発される(英語・ミャンマー語)</p> <p>2d プロジェクト終了までに、森林局局長による確認とさらなる措置のために、マングローブ林のCFのための標準作業手順書(SOP)が、森林局の既存のSOP(局令やCF令)をもとに作成される(英語・ミャンマー語)</p> <p>3a プロジェクト終了までに、アクシオン・リサーチ(AR)に関する技術報告書が作成される(英語・ミャンマー語)</p> <p>3b プロジェクト終了までに、ARの結果に基づいて作成された、エーヤーワディ・デルタのマングローブ林・関連林の復旧・管理に関する、現場職員向けの造林技術ガイドラインが発行される(英語・ミャンマー語)</p> <p>4a 2011年12月までに、森林局によって、関連省庁調整委員会が開かれる</p> <p>4b 対象地域の土地利用情報が2007年、2009年、2012年の衛星画像を基に更新される</p> <p>4c 関連省庁調整委員会において、上記土地利用情報協議のために共有される。</p> <p>4d 関連セクターのシンポジウムを促進するためのセミナーが毎年開催される</p> <p>4e 対象地域のドナー/NGO調整委員会が森林局によって、年1回開かれる</p>	<p>1a: CF管理計画</p> <p>1b~1e: モニタリング報告書、プロジェクト報告書</p> <p>2a~2d: プロジェクト報告書</p> <p>3a~3b: プロジェクト報告書</p> <p>4a 会合の記録</p> <p>4b: 土地利用図</p> <p>4c: 会合の記録</p> <p>4d: プロジェクト報告書</p> <p>4e: 会合の記録</p> <p>xa: ハザードマップ</p> <p>xb-e: プロジェクトの報告書</p>	<p>1 対象RF4箇所において、急激な人口増加がない</p> <p>2 マングローブ林を他の土地利用に転換する外部圧力が増加しない</p>
<p>3. エーヤーワディ・デルタのマングローブ林及び関連林の復旧と管理に関するいくつかの造林技術が確立される</p>	<p>xa 2009年3月までに、対象地域のハザードマップが、衛星画像(2009年)に基づいて作成される</p> <p>xb 2010年3月までに、対象地域のコミュニティの被災・復興調査結果がまとめられる</p> <p>xc 2010年3月までに、各RFにおいて、耐サイクロンの強化構造を備えたCF普及・苗畑センターが、再建される</p> <p>xd 2009~2010年に、森林局及び協力機関の災害復旧・防災事業に必要な資材が、ニーズに応じて提供される</p> <p>xe 2011年12月までに、マングローブの植生復旧状況に関するデータがまとめられる</p>		
<p>4. エーヤーワディ・デルタのマングローブ林減少の根本原因に対処するために、主要セクター間の調整メカニズムが構築される</p>			
<p>X (2008年5月のサイクロン・ナルギス後の追加的アウトプット)</p> <p>サイクロン・ナルギスの被害からの復興が促進される</p>			

PDME から PDM2 案への修正箇所

PDMEから PDM2 案への主な修正箇所及びその理由・内容は以下に示す通り。

表 1. PDM2 案のプロジェクトの要約部分の修正箇所

#	修正箇所	理由、内容
1	<p><修正前></p> <ul style="list-style-type: none"> 活動 2-10: Develop post-project strategy for CF management and CF extension & support <p><修正後></p> <ul style="list-style-type: none"> プロジェクトが作成中の PO2 案のアウトプット0(プロジェクト管理に関するアウトプット)の活動に移動 	<ul style="list-style-type: none"> ポスト・プロジェクト戦略作成は、CFに限定されるものではないので、アウトプット2ではなく、アウトプット0に移動することになった。(なお、PO2 案は、作成中であるため、合同レビュー報告書には掲載していない)
2	<p><修正前></p> <ul style="list-style-type: none"> 活動 4-1: Formulate an inter-agency coordination committee, consisting of relevant authorities (e.g. agriculture, fisheries, settlement and land records) at the Regional level to examine the underlying causes for mangrove deforestation in the Ayeyawady Delta. 活動 4-2: Update the land use information on periodic basis based on the up-to-date satellite images for discussion by the coordination committee members, including overall forest resource assessment of the region and mangrove forest conversion. <p><修正後></p> <ul style="list-style-type: none"> 活動 4-1: Organize an inter-agency coordination meeting, consisting of relevant authorities (e.g. agriculture, fisheries, settlement and land records) at the Regional level to examine the underlying causes for mangrove deforestation in the Ayeyawady Delta. 活動 4-2: Update the land use information on periodic basis based on the up-to-date satellite images for discussion by the coordination meeting members, including overall forest resource assessment of the region and mangrove forest conversion. 	<ul style="list-style-type: none"> 常設の省庁間調整委員会の公式な設置は、行政手続き上困難であるという評価結果から、より実現可能な、省庁間調整会合の開催に修正した。
3	<p><修正前></p> <ul style="list-style-type: none"> 活動 4-3: Conduct coordination among the committee members upon demand to coordinate instructions for the implementation of appropriate land use policies. <p><修正後></p> <ul style="list-style-type: none"> 削除(活動 4-3 の削除に伴い、旧活動 4-4 を新 4-3 に修正) 	<ul style="list-style-type: none"> 地方レベルの省庁間調整会合において、行政命令を調整することは現実的ではないという意見があり、PDMの活動から削除された。
4	<p><追加></p> <ul style="list-style-type: none"> 活動 4-4: Organize a coordination meeting with donors/NGOs active in the Target Area at District Level 	<ul style="list-style-type: none"> 対象地域で活動をしている NGO/ドナーと会合をもつべきとの中間レビューの提言により、追加

表 2. PDM2 案のプロジェクト目標の指標の修正箇所

#	修正箇所	理由、内容
1	<p><修正前></p> <ul style="list-style-type: none"> 指標 a: By the Project end, mangrove forest coverage is increased by 6,200 acres (*2) in the selected areas where project were implemented(i.e. CF plantation, CF-Natural Forest Improvement Operation (NFIO), and ARP sites) from the base year 2009. <p>(*2): "6,000 acres " is a tentative target, which was set based on the following assumptions: (i) 20 CFUSGs are organized or reorganized during FY2009-FY2011; (ii) 200 acres is rehabilitated/ managed by each of the 20 CFUSGs (200 acres X 20=4,000 acres); and (iii) a total of 2,000 acres is planted through AR. The figure will be reviewed & finalized based on the results of the Joint Mid-term Review</p> <p><修正後></p> <ul style="list-style-type: none"> 指標 a: By the Project end, mangrove forest coverage is increased by X acres (Y ha) (*2) in the selected areas where project were 	<ul style="list-style-type: none"> 中間レビューにより、2009 年 1 月時点の仮定に基づいて算出された暫定計画値 (6,200 acres)は、実際の計画に基づき、より現実的なものに改訂する必要があることが明らかになった。(「プロジェクト目標の実績」参照) しかし、レビューの時点で、情報不足(一部CF管理計画の未更新・未承認)より、指標の計画値を検討することが不可能であったため、Xエーカー(Yヘクタール)とした。 注釈についても、プロジェクト側との協議に基づき、修正した。

PDME から PDM2 案への修正箇所

	<p>implemented(i.e. CF plantation, CF-Natural Forest Improvement Operation (NFIO), and ARP sites) from the base year 2009.</p> <p>(*2) :The planned value will be determined by March 2012, reflecting the actual plans delineated in the CF Management Plans of the CFUSGs reselected in 2011 and Action Research as well as the area rehabilitated during 2009-2010 by the CFUSGs which were not reselected</p>	
2	<p><修正前></p> <ul style="list-style-type: none"> 指標 b:At the end of the Project, in more than 80% of the villages, where the CF user groups (CFUSGs) were organized/ reorganized during 2009-2011, the percentage of households earning less than the average income of 100,000 kyats equivalent per year (base year 2002) decrease from the base year of CF organization/reorganization. <p><修正後></p> <ul style="list-style-type: none"> 削除 	<ul style="list-style-type: none"> 中間レビューにより、指標 b は、プロジェクト目標を測る指標として不適切だと判断された。非CFUSGメンバーを含む村落住民全体の世帯別平均所得は、プロジェクト外の様々な要因に影響されるからである。
3	<p><修正前></p> <ul style="list-style-type: none"> 指標 c:At the end of the Project, among the registered members of CFUSGs organized/reorganized during 2009-2011, more than 80% consider CF useful <p><修正後></p> <ul style="list-style-type: none"> 指標 b:At the end of the Project, among the registered members of all the target CFUSGs reselected in 2011, more than 80% consider CF useful 	<ul style="list-style-type: none"> 中間レビューでは、対象 CFUSG を、2009 年～2011 年に組織化/再組織化されたものから、さらに絞りこむことを提言しているため、これにあわせて表現を「2011 年に再選定されたCFUSG」に訂正した。

表 3. PDM2 案のアウトプットの指標の修正箇所

#	修正箇所	理由、内容
1	<p><追加></p> <ul style="list-style-type: none"> 指標 1a:By July 2011, all the CF Management Plans of the CFUSGs, reselected in March 2011, are developed/updated 指標 1b:By the end of the Project, organizational capacity of the Management Committees (MCs) of all the target CFUSGs, reselected in 2011, reaches the Xth level of the Y evaluation rating set by the Project 指標 1c:The certified CF Management Plans (i.e. CF plantation and NFIO) of all the target CGUSGs reselected in 2011are implemented according their annual plans 	<ul style="list-style-type: none"> アウトプット1の達成状況をよりの確に把握できるように、指標を追加した。なお、指標 1b 中のX, Yは、2012 年 3 月までに決定される予定である。
2	<p><修正前></p> <ul style="list-style-type: none"> 指標 1a:By the Project end, more than 4,000 acres (1,600ha) (*3) of mangrove forests are rehabilitated and managed by the CFUSGs organized/reorganized during 2009-2011 based on the certified CF Management Plans <p>(*3): “4,000 acres” is a tentative target, which was set based on the following assumptions: (i) 20 CFUSGs are organized or reorganized during 2009-2011; and (ii) 200 acres is rehabilitated/managed by each of the 20 CFUSGs. The figure will be reviewed & finalized based on the results of the Joint Mid-term Review</p> <p><修正後></p> <ul style="list-style-type: none"> 指標 1d:By the Project end, more than X acres (Y ha) (*3) of mangrove forests are rehabilitated and managed by the CFUSGs reselected in 2011 based on the certified CF Management Plans, including CF plantation and NFIO when applicable <p>(*3): The planned value will be determined by March 2012, reflecting the actual plans delineated in the CF Management Plans of the CFUSGs reselected in 2011.</p>	<ul style="list-style-type: none"> 中間レビューにより、2009 年 1 月時点の仮定に基づいて算出された暫定計画値 (4,200 acres)は、実際の計画に基づき、より現実的なものに改訂する必要があることが明らかになった。(「アウトプット1の実績」参照)。しかし、レビューの時点で、情報不足(一部CF管理計画の未更新・未承認)より、指標の計画値を検討することが不可能であったため、Xエーカー(Yヘクタール)とした。 注釈についても、プロジェクト側との協議に基づき、修正した。 中間レビューでは、対象CFUSGを、2009 年～2011 年に組織化/再組織化されたものから、さらに絞りこむことを提言しているため、「2011 年に再選定されたCFUSG」に修正した。

#	修正箇所	理由、内容
3	<p><修正前></p> <ul style="list-style-type: none"> 指標 1b: By the Project end, all active the CFUSGs organized/reorganized during 2009--2011 start to gain profit from CF activities determined in the certified CF Management Plans and/or income generation activities supported by the Project. <p><修正後></p> <ul style="list-style-type: none"> 指標 1e: By the Project end, all the CFUSGs reselected in 2011 start to gain profit from CF activities determined in the certified CF Management Plans and/or income generation activities supported by the Project. 	<ul style="list-style-type: none"> 中間レビューでは、対象CFUSGを、2009年～2011年に組織化/再組織化されたものから、さらに絞りこむことを提言しているため、「2011年に再選定されたCFUSG」に修正した。
4	<p><追加></p> <ul style="list-style-type: none"> 指標 2a: By the end of the Project, capacity of X % of technical members of CF Task Force, engaged in the Project more than two years reaches the Yth level of the Z evaluation rating set by the Project for each level on CF management and extension/support 	<ul style="list-style-type: none"> アウトプット2の達成度をよりの確に把握できるように、指標を追加した。なお、指標 1b 中のX, Yは、プロジェクト内で検討を経て、2012年3月までに決定される予定である
5	<p><修正前></p> <ul style="list-style-type: none"> 指標 2a: More than 80% of all registered members of the CFUSGs organized/reorganized during 2009-2011 are active <p><修正後></p> <ul style="list-style-type: none"> 指標 2b: On average, more than 80% of all registered members of the CFUSGs reselected in 2011 give the highest or medium rate on three-level rating about “degree of understanding”, “degree of applicability”, and “degree of satisfaction” of the CF extension they received. 	<ul style="list-style-type: none"> アウトプット 2 の達成度をよりの確に把握できるように、指標を修正した。
6	<p><修正前></p> <ul style="list-style-type: none"> 指標 2b: Each year, new communities continue to express interest in organizing CFUSGs. <p><修正後></p> <ul style="list-style-type: none"> 削除 	<ul style="list-style-type: none"> 中間レビューにより、指標 2b は、アウトプット2の達成度を測る指標として不適切であると判断された。新たなコミュニティがCFUSGの組織化に関心を示すかどうかは、FDによるCF管理・支援以外の諸要因にも影響されるからである。
7	<p><修正前></p> <ul style="list-style-type: none"> 指標 4a: By December 2011, an inter-agency coordination committee is officialized <p><修正後></p> <ul style="list-style-type: none"> 指標 4a: By December 2011, an inter-agency coordination meeting is formulated by the FD 	<ul style="list-style-type: none"> 表1の#2に記したように、常設の省庁間調整委員会の公式な設置は、行政手続き上困難であるという評価結果から、より実現可能な、省庁間調整会合の設置に修正した。
8	<p><追加></p> <ul style="list-style-type: none"> 指標 4e: A donor/NGO coordination meeting for the Target Area organized by the FD once a year 	<ul style="list-style-type: none"> 表1#4に記した活動追加に伴い、指標を追加