

# **Attachments**

## **Attachment 1 PDM (versions 0 ~3)**

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|----------------|---------------|
| Attachment 1-1 | PDM version 0 |
| Attachment 1-2 | PDM version 1 |
| Attachment 1-3 | PDM version 2 |
| Attachment 1-4 | PDM version 3 |

**Attachment 1-1      PDM version 0**

## Appendix 1 Draft Project Design Matrix (PDM)

### Project Title: Integrated Mangrove Rehabilitation and Management Project through Community Participation in the Ayeyawady Delta

**Project Duration:** October 2006 - September 2011 (tentative)

**Version Number:** Version 0 (draft)

**Target Area:** Four reserved forests (Kyakankwinpauk, Pyinalan, Kadonkani, Pyindaye) in the Ayeyawady Delta

**Date:** 22 December 2005

**Target Group:**

- Communities practicing community forestry in the four reserved forests (Kyakankwinpauk, Pyinalan, 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><b>Overall Goal:</b><br/>The mangrove forests are sustainably managed and poverty is alleviated among the communities in the Ayeyawady Delta.</p>   | <p>1. Mangrove forest coverage increases from XX acres in 2006 to YY acres in 2016 in the project target area.<br/>2. Income levels of communities in the Ayeyawady Delta improve than that of 2004.</p>  | <p>1. Forests resource assessment by FD (remote sensing )<br/>2. Agricultural Census report</p>             |  |
| <p><b>Project Purpose:</b><br/>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>1. Mangrove forest coverage increases from XX acres in 2006 to YY acres in 2011 in the selected areas where project activities were implemented.<br/>2. In more than 80% of the CF villages, 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.<br/>3. Among the CF participants supported by the Project, more than 80% consider CF useful.</p> | <p>1. Project reports<br/>2. Results from the CF Impact survey<br/>3. Results from the CF Impact survey</p> | <p>-Favourable markets exist for CF products.<br/>-FD's policy on the management of the four reserved forests does not change significantly.<br/>-Sufficient financial and other resources are allocated for the sustainable management of mangrove forests.</p> |
| <p><b>Outputs:</b><br/>1. The selected communities practice environmentally and economically sustainable community forestry (CF).</p>  | <p>1-1 More than XX acres of mangrove forests are rehabilitated and managed through CF by the end of the Project.<br/>1-2 More than XX% of all new CF user groups gain profit from CF activities by the end of the Project.</p>   | <p>1-1 CF management plans, monitoring reports<br/>1-2 Project reports</p>                                  | <p>- No drastic increase in the population within the four reserved forests.<br/>- External pressure to convert the mangrove forests to other land uses does not increase.<br/>- Prices for CF products do not change significantly.</p>                         |
| <p>2. The management and the support system of the Forest Department (FD) for CF is effective.</p>   | <p>2-1 More than 80% of all registered user groups are active in CF.<br/>2-2 New communities continue to express interest in forming CF user groups each year.</p>  | <p>2-1 Project reports<br/>2-2 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>3-1 Technical reports/ draft guidelines are prepared based on action research findings.</p>  | <p>3-1 Project reports</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>4-1 Interdisciplinary committee is officialized.<br/>4-2 Specific recommendations are made and/or actions are taken by the committee.</p>  | <p>4-1 Authorities' letter of announcement<br/>4-2 Meeting records</p>                                      |  |

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| <p><b>Activities:</b><br/>                 1-1 Select villages to introduce CF from the ones that express interest.<br/>                 1-2 Conduct baseline survey on the basic socio-economic conditions of the selected communities.<br/>                 1-3 Mobilize the selected communities for user group formation and conduct introductory meetings on CF.<br/>                 1-4 Introduce participatory planning processes for the user groups on CF to facilitate preparation of proposals for CF certificates and formulation of management plans.<br/>                 1-5 Facilitate implementation of the management plans formulated by the user groups.<br/>                 1-6 Organize meetings to assess various socio-economic needs of the selected communities and design programmes to strengthen their income generating capacities.<br/>                 1-7 Implement various programmes to enhance the income levels of the user groups in the selected villages in partnership with cooperating agencies such as Department of Fisheries, Myanma Agriculture Service, and other institutions.<br/>                 1-8 Establish monitoring and evaluation systems for the management plans formulated by the user groups.<br/>                 1-9 Conduct impact survey regarding the effects of CF on the livelihoods of the selected communities.</p> | <p><b>Inputs (Myanmar side)</b></p> <p><b>Personnel</b><br/>                 1. Project Director<br/>                 2. Project Manager<br/>                 3. Project Coordinator<br/>                 4. Field Project Manager<br/>                 5. CF Task Force members<br/>                 6. Other personnel mutually agreed upon as necessary</p> <p><b>Land, Building and Facilities</b><br/>                 1. Office building and facilities necessary for the implementation of the Project<br/>                 2. Office space and necessary facilities for the Japanese experts and related staff members<br/>                 3. Land for the action research<br/>                 4. Jetty and space necessary for storage of boats and vehicles<br/>                 5. Other facilities mutually agreed upon as necessary</p> <p><b>Local Operational Costs</b><br/>                 Minimum of US\$100,000 equivalent in 5 years</p> | <p><b>Inputs (Japanese side)</b></p> <p><b>Personnel</b><br/>                 1. Chief Advisor<br/>                 2. Participatory community development<br/>                 3. Mangrove forestry<br/>                 4. Coordinator<br/>                 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> <p><b>Machinery and Equipment</b><br/>                 1. Boat(s)<br/>                 2. Vehicle(s)<br/>                 3. Other equipment would be provided if necessary upon mutual agreement.</p> <p><b>Training in Japan</b></p> | <p>-No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunami, floods, pests, diseases).<br/>                 -Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests.</p> |
| <p>2-1 Review the contents of the Integrated Mangrove Management Plan (IMMP) among all CF Task Force members and break down necessary activities for the first phase, by each reserved forest.<br/>                 2-2 Confirm the various roles and responsibilities of the CF Task Force at each level to implement the IMMP.<br/>                 2-3 Assess the needs of the CF Task Force members (e.g. financial, logistics and human resource development).<br/>                 2-4 Develop training materials on the standard operational procedures for CF for the mangrove forests.<br/>                 2-5 Train field level staff on CF extension services and support.<br/>                 2-6 Facilitate FD to carry out public information campaigns regarding CF and the conservation of mangrove forests.<br/>                 2-7 Draft detailed standard operational procedures for CF for the mangrove forests</p>   |  |  |   |

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| <p>3-1 Conduct surveys for identification of silvicultural models 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 test designs with respect to each silvicultural model (e.g. seedling production, planting designs and methods, thinning, pruning, forest management).</p> <p>3-3 Plan execution of the tests.</p> <p>3-4 Prepare the facilities (e.g. nurseries).</p> <p>3-5 Prepare plots and test materials (e.g. seeds, seedlings) and execute the test plots.</p> <p>3-6 Conduct patrols and periodic technical monitoring /preliminary assessment.</p> <p>3-7 Prepare draft technical guidelines of some action research items (e.g. species identification, nursery, seed collection and management, planting techniques).</p> |  |   |
| <p>4-1 Formulate an inter-disciplinary 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, including overall forest resource assessment of the region and mangrove forest conversion.</p> <p>4-3 Conduct coordination among the committee members upon demand to coordinate instructions for the implementation of appropriate land use policies.</p> <p>4-4 Organize seminars to promote synergies among the relevant sectors for the sustainable management of the mangrove ecosystem in the Ayeyawady Delta.</p>  |  | <p><b>Preconditions:</b></p> <p>-Local communities accept CF Instructions.</p> <p>-No significant changes occur in the Government's policy on CF.</p> |



**Attachment 1.2      PDM version 1**

## Attachment 1.2 PDM version 1

### Draft Project Design Matrix

**Project Title:** Integrated Mangrove Rehabilitation and Management Project through Community Participation in the Ayeyawady Delta

**Project Duration:** April 2007 – March 2013

**Target Area:** Four reserved forests (Kyakankwinpauk, Pyinalan, Kadonkani, Pyindaye) in the Ayeyawady Delta

**Target Group:** -Communities practicing community forestry in the four reserved forests (Kyakankwinpauk, Pyinalan, Kadonkani, Pyindaye) in the Ayeyawady Delta  
-Community Forestry Task Force and other relevant staff from the Forest Department

Version Number: 1 (draft)

Date: 28 January 2009

| Narrative Summary  | Objectively Verifiable Indicators   | Means of Verification  | Important Assumptions   |
|--|---|--|---|
| <b>Overall Goal:</b><br>The mangrove forests are sustainably managed and poverty is alleviated among the communities in the Ayeyawady Delta  | 1. Mangrove forest coverage increases from 110,000 acres (45000ha) in 2007 to 136,000 acres (55200 ha) of the total project area in 2018 note1) in the project target area.<br>2. Income levels of communities in the Ayeyawady Delta improve than that of 2004   | 1. Forests resource assessment by FD (remote sensing)<br>2. Agricultural Census report             |   |
| <b>Project Purpose:</b><br>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. | 1. Mangrove forest coverage increases from 110,000 acres (45000ha) in 2007 to 116,200 acre (47000 ha) note2) in 2013 in the selected areas where project activities were implemented.<br>2. In more than 80% of the CF villages, 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.<br>3. Among the CF participants supported by the Project, more than 80% consider CF useful. | 1. Project reports<br>2. Results from the CF Impact survey<br>3. Results from the CF Impact survey | -Favourable markets exist for CF products.<br>-FD's policy on the management of the four reserved forests does not change significantly.<br>-Sufficient financial and other resources are allocated for the sustainable management of mangrove forests. |
| <b>Outputs:</b><br>1. The selected communities practice environmentally and economically sustainable community forestry (CF).  | 1-1 More than 4200 acres (1800 ha) note3) of mangrove forests are rehabilitated and managed through CF by the end of the Project.<br>1-2 All new active CF user groups launched during fy2009 – fy2011 under the Project gain profit from CF activities by the end of the Project.  | 1-1 CF management plans, monitoring reports<br>1-2 Project reports                                 | -No drastic increase in the population within the four reserved forests.<br>-External pressure to convert the mangrove forests to other land uses does not increase.  |
| 2. The management and the support system of the Forest Department (FD) for CF is effective.  | 2-1 More than 80% of all registered CF user groups members are active among CF user groups activated during FY2009 – FY2011 under the Project.<br>2-2 New communities continue to express interest in forming CF user groups each year.   | 2-1 Project reports<br>2-2 Project reports   | -Prices for CF products do not change significantly   |
| 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.                   | 3-1 Technical reports/ draft guidelines are prepared based on action research findings.<br>3-2 Foundations for propelling IMMP is prepared including recovery from the damages of cyclone.  | 3-1 Project reports  |   |
| 4. A coordination mechanism is established among key sectors to address the underlying causes of mangrove deforestation in the Ayeyawady Delta.  | 4-1 Interdisciplinary committee is officialized.<br>4-2 Specific recommendations are made and/or actions are taken by the committee.  | 4-1 Authorities' letter of announcement<br>4-2 Meeting records                                     |   |



| Activities:   | Inputs (Myanmar side)  | Inputs (Japanese side)   |  |
|---|--|--|--|
| <p>1-1 Select villages to introduce CF from the ones that express interest.</p> <p>1-2 <b>Conduct recovery survey and village profile survey based on needs</b> and conduct baseline survey on the basic socio-economic conditions of the selected communities.</p> <p>1-3 Mobilize the selected communities for user group formation and conduct introductory meetings on CF.</p> <p>1-4 Introduce participatory planning processes <b>and land use rule for applying CFI</b> to facilitate preparation of proposals for CF certificates and formulation of management plans <b>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</b></p> <p>1-5 <b>Issue CF certificate based on the proposal</b></p> <p>1-6 <b>Facilitate implementations of the CF management plans of the user groups for protection related CF activities (CF river bank / coastal woodlot, CF WLS, CF paddy, etc)</b></p> <p>1-7 Implement various <b>Mangrove CF</b> programs to enhance the income levels of the user group in the selected villages in partnership with cooperating agencies such as Department of Fisheries, Myanma Agriculture Service, and other institutions.</p> <p>1-8 Establish monitoring and evaluation systems for the management plans formulated by the user groups.</p> <p>1-9 Conduct impact survey regarding the effects of CF on the livelihoods of the selected communities.</p> | <p><b>Personnel</b></p> <p>1. Project Director</p> <p>2. Project Manager</p> <p>3. Project Coordinator</p> <p>4. Field Project Manager</p> <p>5. CF Task Force members</p> <p>6. Other personnel mutually agreed upon as necessary</p> <p><b>Land, Building and Facilities</b></p> <p>1. Office building and facilities necessary for the implementation of the Project</p> <p>2. Office space and necessary facilities for Japanese experts and related staff members</p> <p>3. Land for the action research</p> <p>4. Jetty and space necessary for storage of boats and vehicles</p> <p>5. Other facilities mutually agreed upon as necessary</p> <p><b>Local Operational Costs</b></p> <p>Minimum of US\$100,000 equivalent in 5 years</p> | <p><b>Personnel</b></p> <p>1. Chief Advisor</p> <p>2. Participatory community development</p> <p>3. Mangrove forestry</p> <p>4. Coordinator</p> <p>5. Other experts in specific fields (e.g. Extension, GIS,</p> <p>Agro-forestry, Fish culture, Forestry Value-added Production, Marketing and Distribution) upon mutual agreement</p> <p><b>Machinery and Equipment</b></p> <p>1. Boat(s)</p> <p>2. Vehicle(s)</p> <p>3. Other equipment would be provided if necessary upon mutual agreement.</p> <p><b>Training in Japan</b></p> | <p>- No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunamis, floods, pests, diseases).</p> <p>- Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests.</p> |
| <p>2-1 Review the contents of the Integrated Mangrove Management Plan (IMMP) among all CF Task Force members and break down necessary activities for the first phase, by each reserved forest.</p> <p>2-2 Confirm the various roles and responsibilities of the CF Task Force at each level to implement the IMMP.</p> <p>2-3 <b>Assess the needs of the organization related to the integrated mangrove management (e.g. financial, logistics and human resource development).</b></p> <p>2-4 <b>Review the institutional system related to the integrated mangrove management and support development of the system (new organization, mandate, budget, etc)</b></p> <p>2-5 Develop training materials on the standard operational procedures for CF for the mangrove forests.</p> <p>2-6 Train FD staff on CF and integrated mangrove management <b>including technology exchange program at third countries through collaboration with multi or bilateral donors.</b></p> <p>2-7 <b>Train CF user group related to the integrated mangrove management and CF activities</b></p> <p>2-8 Draft detailed standard operational procedures for CF for the mangrove forests.</p>  |  |  |  |
| <p>3-1 Conduct surveys for identification of silvicultural models for both community and non-community forestry with respect to the eco-geographical / management zones in the Ayeyawady Delta <b>including recovery condition of mangrove vegetation from damage of cyclone Nargis.</b></p> <p>3-2 Prepare the specific action research test designs with respect to each silvicultural model (e.g. seedling production, planning designs and methods, thinning, pruning, forest management).</p> <p>3-3 Prepare the facilities (e.g. nurseries) for integrated mangrove management <b>and for attaining support recovery from damage of the cyclone Nargis.</b></p> <p>3-4 Prepare plots and test materials (e.g. seeds, seedlings) and execute the AR.</p> <p>3-5 Conduct periodic technical monitoring / preliminary assessment.</p> <p>3-6 Prepare draft technical guidelines based on progress of the action research activities (e.g. species identification, nursery, seed collection and management, planting techniques).</p> <p>3-7 <b>Support recovery of Implementation Body, material supply for recovery work of damaged mangrove or development of river bank / Coastal woodlot</b></p>   |  |  | <p>Preconditions:</p> <p>- Local communities accept CF Instructions.</p> <p>- No significant changes occur in the Government's policy on CF.</p>   |
| <p>4-1 Formulate and inter-disciplinary 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, including overall forest resource assessment of the region and mangrove forest conversion.</p> <p>4-3 <b>Prepare hazard map based on analysis of damage of the cyclone Nargis</b></p> <p>4-4 Conduct coordination among the committee members upon demand to coordinate instructions for the implementation of appropriate land use policies.</p> <p>4-5 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 <b>Prepare material for public information</b></p> <p>4-7 <b>Arrange necessary coordination among donors in the integrated mangrove management.</b></p> <p>4-8 <b>Conduct public information for support integrated mangrove management including disaster prevention and patrol</b></p>   |  |  |  |

Note 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.

Note 2: Estimated to be increased 6000 acre (4000 acre-plantation through CFI 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.

Note 3: Estimated to be rehabilitated 200 acre of mangrove forest by each CFUSG and will be activated 22 CFUSGs under the Project

# **Attachment 1-3 PMD version 2**

### Attachment 1-3 PDM ver 2

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: 14 July, 2011

| Narrative Summary  | Objectively Verifiable Indicators  | Means of Verification  | Important Assumptions   |
|--|--|--|---|
| <p><b>Overall Goal:</b><br/>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 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<br/>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)<br/>b. Agricultural Census report</p>                           |   |
| <p><b>Project Purpose:</b><br/>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 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.<br/>b. At the end of the Project, among the registered members of all the target CF user groups (CFUSGs) reselected in 2011 more than 80% consider CF useful</p>  | <p>a. Project reports<br/>b. Results from the CF Impact survey</p>   | <p>1 Favourable markets exist for CF products.<br/>2 FD's policy on the management of the four reserved forests does not change significantly.<br/>3 Sufficient financial and other resources are allocated for the sustainable management of mangrove forests.</p> |
| <p><b>Outputs:</b><br/>1. The selected communities practice environmentally and economically sustainable community forestry (CF).</p>  | <p>1a By September 2011, all the CF Management Plans of the CFUSGs, reselected in March 2011, are developed/updated<br/>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<br/>1c The certified CF Management Plans (i.e. CF plantation and NFIO) of all the target CGUSGs reselected in 2011 are implemented according their annual plans<br/>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<br/>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.</p>  | <p>1a: CF Management Plans,<br/>1b-1e: Monitoring report, project report</p>   | <p>1 No drastic increase in the population within the four reserved forests.<br/>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 on average<br/>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.<br/>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 &amp; Myanmar)<br/>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 &amp; Myanmar)</p> | <p>2a-2d: Project reports</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>3a By the Project end, a technical report on Action Research (AR) for mangrove are prepared (in English and Myanmar)<br/>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>3a-3b: Project reports</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>4a By December 2011, an inter-agency coordination meeting is organized by the FD<br/>4b Land use information of the Target Area is updated based on the satellite images of 2007, 2009 and 2012.<br/>4c The updated land use information is shared at the inter-agency coordination meetings for discussion.<br/>4d Seminars to promote synergy among the relevant sectors are organized annually<br/>4e A donor/NGO coordination meeting for the Target Area organized by the FD once a year</p>   | <p>4a: Meeting records<br/>4b: Land use maps<br/>4c: Meeting records<br/>4d: Project reports<br/>4e: Meeting records</p> |   |
| <p>X (Additional Output after the Cyclone Nargis in May 2008)<br/>Recovery from damage of Cyclone Nargis 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<br/>Xb By March 2010, a report on damage &amp; recovery survey on the communities in the Target Area is prepared<br/>Xc By March 2010, Centre for CF Extension &amp; Nursery in each RF is rehabilitated.<br/>Xd In 2009 &amp; 2010, materials necessary for disaster recovery or prevention work are provided to the FD and the Cooperating Agencies based on the needs<br/>Xe By December 2011, a report on recovery condition of mangrove vegetation (2008-2010) is prepared</p>  | <p>Xa: Hazard map,<br/>Xb-e: project reports</p>   |   |

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| <p><b>Activities:</b></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 &amp; 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 &amp; 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 &amp; 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 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 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 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 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 Ayeyawady 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 &amp; 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 including facility 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> | <p style="text-align: center;"><b>Inputs</b></p> <p><b>&lt;Myanmar Side&gt;</b><br/> <b>Personnel</b> (Members of CF Task Force: MCFTF)<br/> 1. Project Director<br/> 2. Project Manager<br/> 3. Project Coordinator<br/> 4. Field Project Manager<br/> 5. Other MCFTF<br/> 6. Other personnel mutually agreed upon as necessary</p> <p><b>Land, Building and Facilities</b><br/> 1. Office building and facilities necessary for the implementation of the Project<br/> 2. Office space and necessary facilities for the Japanese experts and related staff members<br/> 3. Land for the action research<br/> 4. Jetty and space necessary for storage of boats and vehicles<br/> 5. Other facilities mutually agreed upon as necessary</p> <p><b>Local Operational Costs</b><br/> Minimum of US\$100,000 equivalent in 5 years</p> <p><b>&lt;Japanese Side&gt;</b><br/> <b>Personnel</b><br/> 1. Chief Advisor<br/> 2. Participatory community development<br/> 3. Mangrove forestry<br/> 4. Coordinator<br/> 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> <p><b>Machinery and Equipment</b><br/> 1. Boat(s)<br/> 2. Vehicle(s)<br/> 3. Other equipment would be provided if necessary upon mutual agreement.</p> <p><b>Training in Japan</b></p> <p><b>Local Costs</b></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><b>Pre-Conditions</b></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> |
|---|--|--|

(\*1)As-yet unspecified planned value such as X, Y, Z, will be specified by March 2012. (\*1): The figure would be further reviewed and finalized in developing the post-project strategy. (\*2) :The planned value will be determined, 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, 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 CFUSG

# **Attachment 1-4 PMD version 3**

### Attachment 1-4 PDM ver 3

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: 3  
Date of approval: 3 May, 2012

| Narrative Summary  | Objectively Verifiable Indicators   | Means of Verification   | Important Assumptions  |
|--|---|---|--|
| <b>Overall Goal:</b><br>The mangrove forests are sustainably managed and poverty is alleviated among the communities in the Ayeyawady Delta  | a. Mangrove forest coverage increases by 10,000 acres (4,050ha) (*1) in the Target Area of the current Project. (i.e 4 RFs) within three years after the completion of the Project<br>b. Income levels of communities in the Target Area is improved than that of 2004  | a. Forests resource assessment by FD (remote sensing)<br>b. Agricultural Census report  |  |
| <b>Project Purpose:</b><br>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.   | a. By the Project end, mangrove forest coverage is increased by 3,550 acres (1,438 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.<br>b. At the end of the Project, among the registered members of all the target CF user groups (CFUSGs) reselected in 2011 more than 80% consider CF useful   | a. Project reports<br>b. Results from the CF Impact survey  | 1 Favourable markets exist for CF products.<br>2 FD's policy on the management of the four reserved forests does not change significantly.<br>3 Sufficient financial and other resources are allocated for the sustainable management of mangrove forests. |
| <b>Outputs:</b><br>1. The selected communities practice environmentally and economically sustainable community forestry (CF).<br>2. The management and the support system of the Forest Department (FD) for CF is effective.<br>3. Some silvicultural techniques for the rehabilitation and the management of the mangrove and its associated forests for the Ayeyawady Delta are established.<br>4. A coordination mechanism is established among key sectors to address the underlying causes of mangrove deforestation in the Ayeyawady Delta.<br>X (Additional Output after the Cyclone Nargis in May 2008)<br>Recovery from damage of Cyclone Nargis is promoted. | 1a By September 2011, all the CF Management Plans of the CFUSGs, reselected in March 2011, are developed/updated<br>1b By the end of the Project, organizational capacity of the Management Committee of all target CFUSGs reaches the 3rd level (meaning that they achieve more than half of the fill fulfillment) of the evaluation rating composing of five achievement levels set by the Project.<br>1c The certified CF Management Plans (i.e. CF plantation and NFIO) of all the target CGUSGs reselected in 2011 are implemented according their annual plans<br>1d By the Project end, more than 1,460 acres (591ha) (*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<br>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.<br>2a By the end of the Project, capacity of 80% of technical members of CF Task Force engaged in the Project more than two years reaches the 4th level (meaning that they achieve more than 75% of full fulfillment) of the evaluation rating composing of five achievement levels set by the Project.<br>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.<br>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)<br>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 CFJ) for confirmation by the DG for further action (in English & Myanmar)<br>3a By the Project end, a technical report on Action Research (AR) for mangrove are prepared (in English and Myanmar)<br>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)<br>4a By December 2011, an inter-agency coordination meeting is organized by the FD<br>4b Land use information of the Target Area is updated based on the satellite images of 2007, 2009 and 2012.<br>4c The updated land use information is shared at the inter-agency coordination meetings for discussion.<br>4d Seminars to promote synergy among the relevant sectors are organized annually<br>4e A donor/NGO coordination meeting for the Target Area organized by the FD once a year<br>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<br>Xb By March 2010, a report on damage & recovery survey on the communities in the Target Area is prepared<br>Xc By March 2010, Centre for CF Extension & Nursery in each RF is rehabilitated.<br>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<br>Xe By December 2011, a report on recovery condition of mangrove vegetation (2008-2010) is prepared | 1a: CF Management Plans,<br>1b-1e: Monitoring report, project report<br>2a-2d: Project reports<br>3a-3b: Project reports<br>4a: Meeting records<br>4b: Land use maps<br>4c: Meeting records<br>4d: Project reports<br>4e: Meeting records<br>Xa: Hazard map,<br>Xb-e: project reports | 1 No drastic increase in the population within the four reserved forests.<br>2 External pressure to convert the mangrove forests to other land uses does not increase.   |

|   |   |   |
|---|---|---|
| <p><b>Activities:</b></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> <hr/> <p>2-1 Identify necessary activities for CF management (*4) and CF extension &amp; 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 &amp; 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 &amp; 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> <hr/> <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 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> <hr/> <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 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 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 Ayeyawady Delta.</p> <p>4-4 Organize a coordination meeting with donors/NGOs active in the Target Area at District Level</p> <hr/> <p>X-1 Prepare a hazard map based on analysis of damage of the cyclone Nargis</p> <p>X-2 Conduct quick damage &amp; 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 including facility 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> | <p style="text-align: center;"><b>Inputs</b></p> <p><b>&lt;Myanmar Side&gt;</b><br/><b>Personnel</b> (Members of CF Task Force: MCFTF)</p> <ol style="list-style-type: none"> <li>1. Project Director</li> <li>2. Project Manager</li> <li>3. Project Coordinator</li> <li>4. Field Project Manager</li> <li>5. Other MCFTF</li> <li>6. Other personnel mutually agreed upon as necessary</li> </ol> <p><b>Land, Building and Facilities</b></p> <ol style="list-style-type: none"> <li>1. Office building and facilities necessary for the implementation of the Project</li> <li>2. Office space and necessary facilities for the Japanese experts and related staff members</li> <li>3. Land for the action research</li> <li>4. Jetty and space necessary for storage of boats and vehicles</li> <li>5. Other facilities mutually agreed upon as necessary</li> </ol> <p><b>Local Operational Costs</b><br/>Minimum of US\$100,000 equivalent in 5 years</p> <p><b>&lt;Japanese Side&gt;</b><br/><b>Personnel</b></p> <ol style="list-style-type: none"> <li>1. Chief Advisor</li> <li>2. Participatory community development</li> <li>3. Mangrove forestry</li> <li>4. Coordinator</li> <li>5. Other experts in specific fields (e.g. Extension, GIS, Agro-forestry, Fish culture, Forestry Value-added Production, Marketing and Distribution) upon mutual agreement</li> </ol> <p><b>Machinery and Equipment</b></p> <ol style="list-style-type: none"> <li>1. Boat(s)</li> <li>2. Vehicle(s)</li> <li>3. Other equipment would be provided if necessary upon mutual agreement.</li> </ol> <p><b>Training in Japan</b></p> <p><b>Local Costs</b></p> | <p>1 No significant natural hazards occur that will impact the rehabilitation of mangrove forests (e.g. cyclones, tsunamis, floods, pests, diseases).</p> <p>2 Relevant authorities and stakeholders are supportive to promote sustainable management of mangrove forests</p> <p style="text-align: center;"><b>Pre-Conditions</b></p> <p>1 Local communities accept CF instructions</p> <p>2 No significant changes occur in the Government's policy on CF</p> |
|---|---|---|

(\*1)Based on Laputta and Pyar Pon District Management Plans (2011/12-2020/21). (\*2):The area reflecting the CF area delineated in the CF Management Plans of the CFUSGs reselected in 2011 and outer boundary areas of Action Research Plantation Plots as well as the area rehabilitated during 2009-2010 by the CFUSGs which were not reselected. (\*3): The CF areas 1,460 acres (as of April 2012) including plantation areas and natural forest area in the six 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 CFUSG

## **Attachment 2 PO, DPO**

|                |              |
|----------------|--------------|
| Attachment 2-1 | PO version 0 |
| Attachment 2-2 | PO version 1 |
| Attachment 2-3 | PO version 2 |
| Attachment 2-4 | DPO          |



**Attachment 2-1      PO version 0**

Attachment 2-1 PO version 0

**Appendix 2 Draft Plan of Operation (PO)**  
**Project Title : Integrated Mangrove Rehabilitation and Management Project through Community Participation in the Ayeyawady Delta**  
**Duration : October 2006-September 2011 (tentative)**  
22 December 2005

|   | FY 2006 |   |   | FY 2007 |   |   | FY 2008 |    |    | FY 2009 |   |   | FY 2010 |   |   | FY 2011 |   |   |
|---|---------|---|---|---------|---|---|---------|----|----|---------|---|---|---------|---|---|---------|---|---|
|   | 4       | 5 | 6 | 7       | 8 | 9 | 10      | 11 | 12 | 1       | 2 | 3 | 4       | 5 | 6 | 7       | 8 | 9 |
| <b>1. The selected communities practice environmentally and economically sustainable community forestry (CF).</b>   |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 1-1 Select villages to introduce CF from the ones that express interest.  |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 1-2 Conduct baseline survey on the basic socio-economic conditions of the selected communities.   |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 1-3 Mobilize the selected communities for user group formation and conduct introductory meetings on CF.   |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 1-4 Introduce participatory planning processes for the user groups on CF to facilitate preparation of proposals for CF certificates and formulation of management plans.  |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 1-5 Facilitate implementation of the management plans formulated by the user groups.  |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 1-6 Organize meetings to assess various socio-economic needs of the selected communities and design programmes to strengthen their income generating capacities.  |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 1-7 Implement various programmes to enhance the income levels of the user groups in the selected villages in partnership with cooperating agencies such as Department of Fisheries, Myanma Agriculture Service, and other institutions. |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 1-8 Establish monitoring and evaluation systems for the management plans formulated by the user groups.   |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 1-9 Conduct impact survey regarding the effects of CF on the livelihoods of the selected communities.   |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| <b>2. The management and the support system of the Forest Department for CF is effective.</b>   |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 2-1 Review the contents of the Integrated Mangrove Management Plan (IMMP) among all CF Task Force members and break down necessary activities for the first phase, by each reserved forest.   |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 2-2 Confirm the various roles and responsibilities of the CF Task Force at each level to implement the IMMP.  |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 2-3 Assess the needs of the CF Task Force members (e.g. financial, logistics and human resource development).   |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 2-4 Develop training materials on standard operational procedures for CF for the mangrove forests.  |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |
| 2-5 Train field level staff on CF extension services and support.   |         |   |   |         |   |   |         |    |    |         |   |   |         |   |   |         |   |   |



**Attachment 2.2      PO version 1**





**Attachment 2-3      PO version 2**

| Activity as per PDM2   | Expected Results During Project Period   | Schedule  |     |      |     |      |     |      |     |      |     |      |     | Person in charge     | Implementers  | Other Major Inputs  |                | Remarks                |
|--|--|---|-----|------|-----|------|-----|------|-----|------|-----|------|-----|----------------------|---|---|----------------|------------------------|
|  |  | 2007  |     | 2008 |     | 2009 |     | 2010 |     | 2011 |     | 2012 |     |                      |   | Japanese  | Myanmar        |                        |
|  |  | Apr   | Jul | Oct  | Jan | Apr  | Jul | Oct  | Jan | Apr  | Jul | Oct  | Jan |                      |   |   |                |                        |
| <b>Output 1: The selected communities practice environmentally and economically sustainable community forestry (CF).</b> |  |   |     |      |     |      |     |      |     |      |     |      |     |                      |   |   |                |                        |
| 1.1  | Select villages to introduce CF from the ones that express interest.   | Villages selected for CF by the project (list of selected villages)                                   |     |      |     |      |     |      |     |      |     |      |     | Project Manager (PM) |   | JE: Chief Advisor (CA)  |                |                        |
| 1.1.1  | Confirm interest and willingness of villages and select villages for the Project   | Villagers' consent (memo of meeting)  |     |      |     |      |     |      |     |      |     |      |     | ditto                |   | JE: PCD (participatory community development), CA   |                |                        |
| 1.1.2  | Reconfirm interest and willingness of selected villages  | Result of reconfirmation at 12 villages, villagers' consent at 6 villages (memo of meeting)           |     |      |     |      |     |      |     |      |     |      |     | ditto                |   | ditto   |                |                        |
| 1.1.3  | Re-select villages to be covered in the Project  | 6 villages re-selected for the project  |     |      |     |      |     |      |     |      |     |      |     | FPM                  | SOs(LPT, BGL, PYP), ROs, DROs, Foresters (KDK, KKK, PND, FNL) | ditto   |                |                        |
| 1.2  | Conduct baseline survey on the basic socio-economic conditions of the selected villages  | Results of survey to contribute to monitoring progress/ impact of Project (Compiled result of survey) |     |      |     |      |     |      |     |      |     |      |     | FPM                  | ditto   | JE: PCD, project staff<br>LC: Baseline and market survey (Contract work)                                  |                |                        |
| 1.2.1  | Conduct baseline survey on the basic socio-economic conditions of the selected villages  | Compiled result of survey   |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | ditto   |                |                        |
| 1.2.2  | Review basic socio-economic conditions of re-selected villages   | Reviewed socio-economic conditions of 6 villages re-selected. (prepared records / reports)            |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | ditto   |                |                        |
| 1.2.3  | Reconduct survey for CF usefulness and household income of re-selected villages (based on necessity)   | Compiled result of survey   |     |      |     |      |     |      |     |      |     |      |     | FPM                  | ditto   | ditto   |                |                        |
| 1.3  | Organize/reorganize CFUSGs in the selected villages  | Functional CFUSGs organized/reorganized (Existence of CFUSG/ MC member lists and bylaws)              |     |      |     |      |     |      |     |      |     |      |     | FPM                  | SOs(LPT, BGL, PYP), ROs, DROs, Foresters (KDK, KKK, PND, FNL) | JE: PCD, project staff  |                |                        |
| 1.3.1  | Elect Management Committee (MC)  | 6 MCs elected   |     |      |     |      |     |      |     |      |     |      |     | ditto                |   | ditto   |                |                        |
| 1.3.2  | Register members   | Members of 6 CFUSGs registered  |     |      |     |      |     |      |     |      |     |      |     | ditto                |   | ditto   |                |                        |
| 1.3.3  | Develop by-laws  | By-laws developed by 6 CFUSGs   |     |      |     |      |     |      |     |      |     |      |     | ditto                |   | ditto   |                |                        |
| 1.3.4  | Reconfirm status of CFUSGs in re-selected villages and reorganize CFUSGs   | MC elected, members registered and by-laws developed in 6 CFUSGs                                      |     |      |     |      |     |      |     |      |     |      |     | SOs (LPT, BGL, PYP)  | ROs, DROs, Foresters (KDK, KKK, PND, FNL)                     | ditto   |                |                        |
| 1.4  | Assist the CFUSGs in preparing/updating their CF Management Plans and proposals for CF certificates through participatory planning process   | CFMPs which enable sustainable CF activities to be prepared in selected villages                      |     |      |     |      |     |      |     |      |     |      |     | FPM                  | SOs(LPT, BGL, PYP), ROs, DROs, Foresters (KDK, KKK, PND, FNL) | JE: PCD, Project Staff<br>LC: operation cost  |                |                        |
| 1.4.1  | Review the Management Plan (MP) developed by the Project and make necessary updates  | 4 CFMPs reviewed and updated  |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | JE: PCD, GIS, MF (mangrove forestry)  |                |                        |
| 1.4.2  | Update the pre-existing MP   | 2 CFMP updated  |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | JE: PCD, GIS, MF  |                | CFUSGs at Pyin Oaung U |
| 1.5  | Issue CF certificates to the CFUSGs based on the proposals as per the CF Instruction (CFI)   | 6 CFUSGs issued/re-issued CF certificates   |     |      |     |      |     |      |     |      |     |      |     | Director of AYW      | FPM   | JE: CA, C (Coordinator)   |                |                        |
| 1.6  | Assist the CFUSGs in implementing the certified CF Management Plans  | CF activities implemented as per CFMP (annual report)   |     |      |     |      |     |      |     |      |     |      |     | FPM                  | SOs(LPT, BGL, PYP), ROs, DROs, Foresters (KDK, KKK, PND, FNL) | JE: PCD, MF, MA (marketing)   |                |                        |
| 1.6.1  | Prepare assisting plan for implementation of CF activities by CFUSG  | prepared plan   |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | JE: PCD, MF, MA, CA   |                |                        |
| 1.6.2  | Assist the CFUSGs Batch I  | CF activities implemented as per CFMP (annual report)   |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | JE: PCD, MF, MA   |                |                        |
| 1.6.3  | Assist the CFUSGs Batch II   | CF activities implemented as per CFMP (annual report)   |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | ditto   |                |                        |
| 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 | Income/profit gained to CFUSG from implementation of capacity strengthening programs                  |     |      |     |      |     |      |     |      |     |      |     | FPM                  | SOs(LPT, BGL, PYP), ROs, DROs, Foresters (KDK, KKK, PND, FNL) | JE: PCD, MF, FC (fish culture) and MA<br>LC: material cost/ operation cost for implementation of programs | MAS, DoF, SLRD |                        |
| 1.7.1  | Design the programs based on needs   | Prepared implementation programs  |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | ditto   |                |                        |
| 1.7.2  | Review and update the programs   | Revised programs  |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | JE: PCD, MF, FC, MA, CA   |                |                        |
| 1.7.3  | Assist the CFUSGs I  | Income/profit gained from implemented programs (implementation records)                               |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | ditto   |                |                        |
| 1.7.4  | Assist the CFUSGs II   | ditto   |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | ditto   |                |                        |
| 1.7.5  | Assist non-CF target villages already with Project intervention (2 in total)   | Income/profit gained from implemented programs (implementation records)                               |     |      |     |      |     |      |     |      |     |      |     | ditto                | ditto   | ditto   |                |                        |

Initial plan (Continuous activities)  
 Initial plan (Intermittent activities)







| Activity as per PDM2   | Expected Results During Project Period  | Schedule  |    |    |      |    |    |      |    |    |      |    |    | Person in charge | Implementers | Other Major Inputs |    | Remarks |      |    |    |          |                     |                                   |   |   |  |
|--|---|---|----|----|------|----|----|------|----|----|------|----|----|------------------|--------------|--------------------|----|---------|------|----|----|----------|---------------------|-----------------------------------|---|---|--|
|  |   | 2007  |    |    | 2008 |    |    | 2009 |    |    | 2010 |    |    |                  |              | 2011               |    |         | 2012 |    |    | Japanese | Myanmar             |                                   |   |   |  |
|  |   | MF  | VE | PY | MF   | VE | PY | MF   | VE | PY | MF   | VE | PY |                  |              | MF                 | VE |         | PY   | MF | VE |          |                     | PY                                |   |   |  |
| <b>Output X: Recovery from Cyclone Nargis is promoted (Additional Output after Cyclone Nargis in May 2008)</b> |   |   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          |                     |                                   |   |   |  |
| X.1  | Prepare a hazard map based on analysis of damage of the cyclone Nargis  | Prepared hazard map   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PD, PM              | GIS section                       | JE: GIS<br>Eq: ALOS AVNIR-2(2008)                                 |   |  |
| X.2  | Conduct quick damage & recovery survey in the Target Area   | Damage and recovery of survey villages to be identified (documented survey results (in reports))  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | FPM, SOs            | ROs                               | JE: PCD   |   |  |
| X.3  | Conduct village profile survey in the Target Area   | Village profile after cyclone of survey villages to be identified (documented survey results (in reports))                                    |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | FPM, SO             | ROs                               | JE: PCD, project staff  |   |  |
| X.4  | Conduct survey for recovery condition of mangrove vegetation from damage of Cyclone Nargis in the Target Area                           | Recovery data of mangrove vegetation to be reflected into ARP and technical guideline (Result of analysis and evaluation in technical report) |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | SOs (LFT, BGL, PYP) | ROs (LFT, BGL, PYP) DRO, Forester | MF<br>LC: Labour cost for survey.                                 | Report can be used in District Management Plan  |  |
| X.4.1  | Set plots for survey  | records of survey   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | ditto               | ditto                             | ditto   |   |  |
| X.4.2  | Continue monitoring of plots  | records/reports of monitoring   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | ditto               | ditto                             | ditto   |   |  |
| X.4.3  | Analyze results of survey and compile data/ information into draft technical report/ guideline  | draft technical report/ guideline   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | ditto               | ditto                             | ditto   | Plan Report prepared by Sep. 2011   |  |
| X.5  | Rehabilitate the CF Extension Centre and Nursery in each RF including facility with cyclone proof structure                             | Completion of rehabilitation of facilities in CFECNs  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | FPM, SOs            | SO, RO                            | JE: GIS, TE<br>LC:  | SO, RO,<br>DRO, FR  |  |
| X.6  | Support recovery or disaster prevention work of Implementation and Cooperative Organizations in the Target Area through material supply | Materials/ equipments for recovery procured and distributed based on needs  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | FPM                 | SOs + ROs                         | JE: PCD, MF<br>Eq: Paga boat x 3, FRP boat x 2, coconut seedlings |   |  |
| X.7  | Conduct public awareness activities on disaster prevention in the Target Area   | Distribution of hazard map related public awareness material  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | FPM                 | SOs + ROs                         | JE: TE, CA, C   | Activities to be integrated in Activity 2.8 after FY2011                              |  |
| X.8  | Arrange necessary coordination among donors in the integrated mangrove management   | Share experiences related to cyclone recovery and reflect such in integrated mangrove management (Prepared meeting records)                   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | FPM                 | SO, RO, DRO                       | JE: CA, C   | The Project participated in relief and recovery coordination meetings organized by UN |  |
| <b>0. Activity related to project management and public relations</b>  |   |   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          |                     |                                   |   |   |  |
| 0.1  | Organize JCC at least once a year   | Project progress / plans shared and decisions made in timely manner (Signed minutes of Meeting of JCC)  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PD                  | PM, PC, FPM                       | JE: CA, C   |   |  |
| 0.2  | Develop a DPO based on FO for approval by JCC   | Approved DPO to be fully utilized by technical MCFTF staff  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PD                  | PM, PC, FPM                       | JE: CA, C   |   |  |
| 0.3  | Develop an annual PO (APO) based on the DPO for approval by JCC   | Approved APO for smooth implementation of Project activities  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PD                  | PM, PC, FPM                       | JE: CA, C   |   |  |
| 0.4  | Develop an annual report for review by JCC  | Project progress and achievements to be timely shared at JCC (Prepared annual reports)  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PC                  | FPM, SOs (LFT, BGL, PYP)          | JE: CA, C   |   |  |
| 0.5  | Organize internal project meeting regularly   | Progress and issues confirmed and necessary actions to be taken in timely manners (Prepared meeting records)                                  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PC                  | FPM, SOs (LFT, BGL, PYP)          | JE: CA, C   |   |  |
| 0.5.1  | Organize Township level meeting monthly (SO+RO+JET)   | ditto   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | SOs (LFT, BGL, PYP) | ROs under township                | JE: Team members on site  |   |  |
| 0.5.2  | Organize District level meeting quarterly (FPM+SO+(RO)+(PC)+JET)  | ditto   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | FPM                 | SOs (LFT, BGL, PYP), (RO), (PC)   | ditto   |   |  |
| 0.5.3  | Organize Project Management meeting quarterly (FPM+PC+FPM+JET)  | ditto   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PM                  | PC, FPM,                          | ditto   |   |  |
| 0.6  | Monitor the achievement of the Indicators periodically  | Indicators appropriately monitored to confirm achievement of outputs/ outcome   |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PC                  | FPM, SOs (LFT, BGL, PYP)          | JE: CA, C   |   |  |
| 0.7  | Prepare for joint evaluation  | Provide data/ information readily available for evaluation  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PC                  | FPM                               | JE: CA  |   |  |
| 0.8  | Follow up the recommendations of the review/evaluation  | Recommendations incorporated in Project and contribute to outputs/ outcome (Annual Completion Reports, relevant meeting minutes)              |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PC                  | FPM                               | JE: CA  |   |  |
| 0.9  | Conduct public relations for the Project  | Announce about Project and its activities (Prepared agendas, public relation material)  |    |    |      |    |    |      |    |    |      |    |    |                  |              |                    |    |         |      |    |    |          | PC                  | FPM, SOs (LFT, BGL, PYP)          | JE: TE, CA  |   |  |

**Attachment 2-4      DPO**

| Activity as per EDM2   | Expected Results During Project Period   | Schedule   |     |     |      |     |     |      |     |     |      |     |     | Person in charge     | Implementors | Other Major Inputs |         | Remarks |      |                             |   |   |  |
|--|--|--|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|----------------------|--------------|--------------------|---------|---------|------|-----------------------------|---|---|--|
|  |  | 2007   |     |     | 2008 |     |     | 2009 |     |     | 2010 |     |     |                      |              | 2011               |         |         | 2012 |                             |   |   |  |
|  |  | Apr  | Jul | Oct | Apr  | Jul | Oct | Apr  | Jul | Oct | Apr  | Jul | Oct |                      |              | Apr                | Jul     |         | Oct  | Apr                         | Jul   | Oct   |  |
| <b>Output 1: The selected communities practice environmentally and economically sustainable community forestry (CF).</b> |  |  |     |     |      |     |     |      |     |     |      |     |     | Project Manager (PM) |              | Japanese           | Myanmar |         |      |                             |   |   |  |
| 1.1  | Select villages to introduce CF from the ones that express interest  | Villages selected for CF by the project (list of selected villages)                                  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | Field Project Manager (FPM) | SOs (LPT, BGL, PYP), ROs, DR Os, Foresters (KDK, KKK, FND, PNL) | JE PCD (participatory community development), CA                        |  |
| 1.1.1  | Confirm interest and willingness of villages and select villages for the Project   | Villagers' consent (memo of meeting)   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
| 1.1.2  | Reconfirm interest and willingness of selected villages  | Result of reconfirmation at 12 villages, villagers' consent at 6 villages (memo of meeting)          |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   | Initial plan (Continuous activities)<br>Initial plan (Intermittent activities) |
| 1.1.3  | Re-select villages to be covered in the Project  | 6 villages re-selected for the project   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | FPM                         | SOs (LPT, BGL, PYP)   | ditto   |  |
|  | a) List up villages re-selected to be covered in the Project   | List of re-selected villages   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
|  | b) Get approval of re-selected villages at JCC   | Meeting minutes of JCC   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
| 1.2  | Conduct baseline survey on the basic socio-economic conditions of the selected villages  | Results of survey to contribute to monitoring progress/impact of Project (Compiled result of survey) |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | FPM                         | ROs, DR Os, Foresters (KDK, KKK, FND, PNL)                      | JE PCD, project staff<br>LC. Baseline and market survey (Contract work) |  |
| 1.2.1  | Conduct baseline survey on the basic socio-economic conditions of the selected villages  | Compiled result of survey  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
| 1.2.2  | Review basic socio-economic conditions of re-selected villages   | Reviewed socio-economic conditions of 6 villages re-selected. (prepared records / reports)           |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
| 1.2.3  | Reconduct survey for CF usefulness and household income of re-selected villages (based on necessity)                                       | Compiled result of survey  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | FPM                         | ditto   | ditto   |  |
| 1.3  | Organize/reorganize CFUSGs in the selected villages  | Functional CFUSGs organized/reorganized (Existence of CFUSG/MC member lists and bylaws)              |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | FPM                         | SOs (LPT, BGL, PYP), ROs, DR Os, Foresters (KDK, KKK, FND, PNL) | JE PCD, project staff   |  |
| 1.3.1  | Elect Management Committee (MC)  | 6 MCs elected  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
| 1.3.2  | Register members   | Members of 6 CFUSGs registered   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
| 1.3.3  | Develop by-laws  | By-laws developed by 6 CFUSGs  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
| 1.3.4  | Reconfirm status of CFUSGs in re-selected villages and reorganize CFUSGs   | MC elected, members registered and by-laws developed in 6 CFUSGs                                     |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | SOs (LPT, BGL, PYP)         | ROs, DR Os, Foresters (KDK, KKK, FND, PNL)                      | ditto   |  |
|  | a) Reconfirm status of MC and its members and reorganize MC  | Reorganized MC member lists  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
|  | b) Reconfirm status of CFUSG members and prepare updated member list   | Revised member lists   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
|  | c) Organize meetings with CFUSG for formulation of by-law  | Prepared meeting records   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
|  | d) Formulate by-law  | Prepared by-law  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
|  | e) Incorporate MC member list, CFUSG member list and by-law into CF proposal   | Revised/updated CF proposals   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
| 1.4  | Assist the CFUSGs in preparing/updating their CF Management Plans and proposals for CF certificates through participatory planning process | CF MPs which enable sustainable CF activities to be prepared in selected villages                    |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | FPM                         | SOs (LPT, BGL, PYP), ROs, DR Os, Foresters (KDK, KKK, FND, PNL) | JE PCD, Project Staff<br>LC. operation cost                             |  |
| 1.4.1  | Review the Management Plan (MP) developed by the Project and make necessary updates  | 4 CFMPs reviewed and updated   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | JE PCD, GIS, MF (mangrove forestry)                                     | Same activities as 1.4.2   |
| 1.4.2  | Update the pre-existing MP   | 2 CFMP updated   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | JE PCD, GIS, MF   | CFUSGs at Pyawlan RF   |
|  | a) Reconfirm/re-delineate CF area boundary with CFUSG members and relevant stakeholders  | Installed boundary stakes and GPS data   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | JE GIS, MF, PCD   |  |
|  | b) Reconfirm and reformulate CF activities to be covered by CFUSG  | Prepared meeting records   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | JE PCD  |  |
|  | c) Update content of CFMP  | Updated CF MPs   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | ditto   |  |
|  | d) Update CF management maps   | Updated CF management maps   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto + SO (GIS Section)  | JE GIS, MF, PCD   |  |
|  | e) Township FD office and CFUSG MC members to confirm and share content of CF proposal (MP and map)  | Finalized CF proposal  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | JE PCD  |  |
|  | f) CFUSG to submit updated CF proposal to township FD  | Submission letters   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | JE PCD  |  |
| 1.5  | Issue CF certificates to the CFUSGs based on the proposals as per the CF Instruction (CFI)   | 6 CFUSGs issued/re-issued CF certificates  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | Director of AYW             | FPM   | JE CA, C (Coordinator),   |  |
| 1.5.1  | Prepare evaluation criteria for issuing CF certificate   | Prepared evaluation criteria   |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | JE CA, C  |  |
| 1.5.2  | Issue certificates for CFUSGs with MP developed by Project   | 4 certificates issued  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | JE CA, C  | Same activities as 1.5.3   |
| 1.5.3  | Re-issue certificates for CFUSGs with updated MP   | 2 certificate re-issued  |     |     |      |     |     |      |     |     |      |     |     |                      |              |                    |         |         |      | ditto                       | ditto   | JE CA, C  | CFUSGs at Pyawlan RF   |

| Activity as per PDM2 | Expected Results During Project Period   | Schedule |     |     |      |     |     |      |     |     |      |     |     | Person in charge | Implementors | Other Major Inputs |     | Remarks |      |     |       |       |  |  |                          |  |
|----------------------|--|----------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------------------|--------------|--------------------|-----|---------|------|-----|-------|-------|--|--|--------------------------|--|
|                      |  | 2007     |     |     | 2008 |     |     | 2009 |     |     | 2010 |     |     |                  |              | 2011               |     |         | 2012 |     |       |       |  |  |                          |  |
|                      |  | Apr      | Jul | Oct | Apr  | Jul | Oct | Apr  | Jul | Oct | Apr  | Jul | Oct |                  |              | Apr                | Jul |         | Oct  | Apr | Jul   | Oct   |  |  |                          |  |
| a                    | District FD office to submit updated CF proposals received from township offices to regional FD office   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     | ditto | ditto | JE CA, C   |  |                          |  |
| b                    | District FD office to receive CF certificates from Regional FD office  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | JE CA, C   |                          |  |
| c                    | Conduct CF certification ceremony cum CF/Mangrove public awareness activity at CF target villages  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | FPM   | SOs (LPT, BGL, PYP), ROs (LPT, BGL, PYP), DRO, Forester (KDK, KKK, PND, PNL) | JE C, CA   |                          |  |
| 1.6                  | Assist the CFUSGs in implementing the certified CF Management Plans  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | FPM   | SOs (LPT, BGL, PYP), ROs, DROs, Foresters (KDK, KKK, PND, PNL)               | JE PCD, MF, MA (marketing)   |                          |  |
| 1.6.1                | Prepare assisting plan for implementation of CF activities by CFUSG  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | JE PCD, MF, MA, CA   |                          |  |
| 1.6.2                | Assist the CFUSGs Batch I  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | JE PCD, MF, MA,  | Same activities as 1.6.3 |  |
| 1.6.3                | Assist the CFUSGs Batch II   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| a                    | Provide necessary amount and type of seedlings to CFUSG as per CFMP  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| b                    | Provide necessary technical guidance to CFUSG for implementation of CF activities  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| c                    | Provide necessary support to CFUSG for monitoring of CF activities   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| d                    | Provide necessary information/ support to CFUSG related to production, harvesting and selling of CF products   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| e                    | Support harvesting and selling of CF products (sales voucher, removal pass, etc.), if applicable   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| 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), Myanma Agriculture Service (MAS), and other institutions. |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | FPM   | SOs (LPT, BGL, PYP), ROs, DROs, Foresters (KDK, KKK, PND, PNL)               | JE PCD, MF, FC (fish culture) and MA LC material cost/ operation cost for implementation of programs | MAS, DoF, SLRD           |  |
| 1.7.1                | Design the programs based on needs   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| 1.7.2                | Review and update the programs   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | JE PCD, MF, FC, MA, CA   |                          |  |
| a                    | Revise implementation plan of capacity strengthening programs by CFUSG   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | JE PCD, MF, FC, MA   |                          |  |
| b                    | Prepare assisting plan for implementation of capacity strengthening programs by CFUSG  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| 1.7.3                | Assist the CFUSGs I  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  | Same activities as 1.7.4 |  |
| 1.7.4                | Assist the CFUSGs II   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| a                    | Formulation/ activation of subgroups   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| b                    | Agroforestry   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  | MAS                      |  |
| c                    | Fish culture   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  | DOF                      |  |
| d                    | Fast growing & value added wood production   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| e                    | Harvesting of products   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| f                    | Trading and selling of products  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| 1.7.5                | Assist non- CF target villages already with Project intervention (2 in total)  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | JET, FC  |                          |  |
| a                    | Formulation/ activation of subgroups   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  |                          |  |
| b                    | Fish culture   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | ditto | ditto  | ditto  | DOF                      |  |
| 1.8                  | Monitor and evaluate the implementation of the certified CF Management Plans   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      |     |       | FPM   | SOs (LPT, BGL, PYP), ROs, DROs, Foresters (KDK, KKK, PND, PNL)               | JE PCD, MF   |                          |  |

| Activity as per FDM2   | Expected Results During Project Period  | Schedule |     |      |     |      |     |      |     |      |     |      |     | Person in charge | Implementors | Other Major Inputs |         | Remarks |  |
|--|---|----------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------------------|--------------|--------------------|---------|---------|--|
|  |   | 2007     |     | 2008 |     | 2009 |     | 2010 |     | 2011 |     | 2012 |     |                  |              | Japanese           | Myanmar |         |  |
|  |   | Apr      | Jul | Apr  | Jul | Apr  | Jul | Apr  | Jul | Apr  | Jul | Apr  | Jul |                  |              |                    |         |         |  |
| 1.8.1  | Draft/update monitoring plan and forms in accordance with certified CF MPs  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 1.8.2  | Monitor progress/ achievement   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 1.9  | Conduct impact survey regarding the effects of CF on the livelihoods of the members of the CFUSGs.  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 1.9.1  | Draft/update implementation plan and forms  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 1.9.2  | Conduct field survey  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 1.9.3  | Compile impacts, issues, lessons learnt regarding effects of CF on the livelihood of the members of CFUSGs  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| <b>Output2: The management and the support system of the Forest Department (FD) for CF is effective.</b> |   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.1  | Identify necessary activities for CF management and CF extension & support by each Reserve Forest (RF) based on review of the CF contents of the Integrated Mangrove Management Plan (IMMP) |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.1.1  | Review CF contents of IMMP  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.1.2  | Identify necessary activities for CF management and CF extension and support  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.1.3  | Incorporate identified activities in respective APOs and implementation plans   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.2  | Confirm the roles and responsibilities of the technical members of CF Task Force (technical MCFTF) for the identified activities  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.2.1  | Identify required roles and responsibilities of technical MCFTF   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.2.2  | Compile, identified roles and responsibilities of respective levels of MCFTF in project operation manual  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.3  | Assess the needs of the technical MCFTF (e.g. financial, logistics and human resource development needs) to implement the identified activities.  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.3.1  | Conduct needs assessment of MCFTF   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.3.2  | Review and reconfirm need of MCFTF  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.3.3  | Organize workshop (s) to confirm training needs and draft training plans/ SOP preparation plan  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.3.4  | Compile training needs of MCFTF   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.4  | Develop training plan & materials based on the assessment of the human resource development needs conducted in 2.3.   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.4.1  | Develop overall training plan and training materials  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| a  | Based on results of workshop (2.3), design training plan  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| b  | Based on results of workshop (2.3), design SOP preparation plan   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| c  | Develop training materials based on finalized training plan   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.4.2  | Update the training materials based on feedbacks  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.5  | Train the technical MCFTF according to the plan   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.5.1  | Implement & monitor the training program  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| a  | Implement training program based on plan  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| b  | Organize feedback interview / survey to review and monitor results of training programs   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |
| 2.5.2  | Evaluate the training program & conduct the follow-up as appropriate  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |         |  |







| Activity as per PDM2   | Expected Results During Project Period   | Schedule |     |      |     |      |     |      |     |      |     |      |     | Person in charge | Implementors | Other Major Inputs |         | Remarks             |   |  |   |
|--|--|----------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------------------|--------------|--------------------|---------|---------------------|---|--|---|
|  |  | 2007     |     | 2008 |     | 2009 |     | 2010 |     | 2011 |     | 2012 |     |                  |              | Japanese           | Myanmar |                     |   |  |   |
|  |  | Apr      | Jul | Oct  | Jan | Apr  | Jul | Oct  | Jan | Apr  | Jul | Oct  | Jan |                  |              |                    |         |                     | Apr   | Jul  | Oct   |
| 4.1.3  | Consolidate and share meeting records among participants/ project stakeholders   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | ditto   | ditto  |   |
| 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 |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | PC                  | SO + ROs (GIS Section), FPM                             | JE GIS   |   |
| 4.2.1  | Procure the satellite images   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | ditto   | ditto  |   |
| 4.2.2  | Develop/update the land use map based on analysis of the images  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | ditto   | ditto  |   |
| 4.2.3  | Confirm CF/ ARP area boundaries and integrate in land use map  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | FPM                 | SOs (LPT, BGL, PYP), ROs (LPT, BGL, PYP), DRO, Forester | JE GIS, MF, CA   |   |
| 4.3  | Organize seminars to promote synergies among the relevant sectors for the sustainable management of the mangrove ecosystem in the Ayeyawady Delta.   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | PM, PC              | FPM, SOs (LPT, BGL, PYP), ROs (LPT, BGL, PYP)           | JE CA, C/PCD, MF, TE, GIS, FO<br>LC Seminar organizing cost      |   |
| 4.3.1  | Prepare annual implementation plan(s)  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | FPM   | ditto  |   |
| 4.3.2  | Organize seminars annually   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | FPM, SO   | ditto  |   |
| 4.3.3  | Organize project final seminar   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | PM                  | PC, FPM, SO   | ditto  |   |
| 4.4  | Organize a coordination meeting with donors/NGOs active in the Target Area at District Level   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | FPM                 | SOs (LPT, BGL, PYP), ROs (LPT, BGL, PYP) DRO, Forester  | JE CA, C<br>LC meeting organizing cost                           |   |
| 4.4.1  | Prepare list of donors/NGOs active in the target area  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | SO, RO  | ditto  |   |
| 4.4.2  | Hold coordination meeting at district level  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | SO, RO, DRO   | ditto  |   |
| 4.4.3  | Consolidate and share meeting records among participants/ project stakeholders   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | SO, RO  | ditto  |   |
| <b>Output X: Recovery from Cyclone Nargis is promoted (Additional Output after Cyclone Nargis in May 2008)</b> |  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |                     |   |  |   |
| X1   | Prepare a hazard map based on analysis of damage of the cyclone Nargis   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | PD, PM              | GIS section   | JE GIS<br>Eq: ALOS AVNIR-2(2008)                                 |   |
| X2   | Conduct quick damage & recovery survey in the Target Area  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | FPM, SOs            | ROs   | JE PCD   |   |
| X3   | Conduct village profile survey in the Target Area  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | FPM, SO             | ROs   | JE PCD, project staff  |   |
| X4   | Conduct survey for recovery condition of mangrove vegetation from damage of Cyclone Nargis in the Target Area  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | SOs (LPT, BGL, PYP) | ROs (LPT, BGL, PYP) DRO, Forester                       | MF<br>LC Labour cost for survey.                                 | Report can be used in District Management Plan  |
| X4.1   | Set plots for survey   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | ditto   | ditto  |   |
| X4.2   | Continue monitoring of plots   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | ditto   | ditto  |   |
| X4.3   | Analyze results of survey and compile data/ information into draft technical report/ guideline   |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | ditto               | ditto   | ditto  | Plan Report prepared by Sep. 2011   |
| X5   | Rehabilitate the CF Extension Centre and Nursery in each RF including facility with cyclone proof structure  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | FPM, SOs            | SO, RO  | JE GIS, TE<br>LC   | SO, RO, DRO, FK   |
| X6   | Support recovery or disaster prevention work of Implementation and Cooperative Organizations in the Target Area through material supply  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | FPM                 | SOs + ROs   | JE PCD, MF<br>Eq: Pagu boat x 3, FRP boat x 2, coconut seedlings |   |
| X7   | Conduct public awareness activities on disaster prevention in the Target Area  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | FPM                 | SOs + ROs   | JE TE, CA, C   | Activities to be integrated in Activity 2.8 after FY2011                              |
| X8   | Arrange necessary coordination among donors in the integrated mangrove management  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | FPM                 | SO, RO, DRO   | JE CA, C   | The Project participated in relief and recovery coordination meetings organized by UN |
| <b>0. Activity related to project management and public relations</b>  |  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         |                     |   |  |   |
|  |  |          |     |      |     |      |     |      |     |      |     |      |     |                  |              |                    |         | PM                  |   |  |   |

| Activity as per PDM2  | Expected Results During Project Period   | Schedule |     |     |      |     |     |      |     |     |      |     |     | Person in charge | Implementors | Other Major Inputs |     | Remarks |      |                     |                                 |                         |  |
|---|--|----------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------------------|--------------|--------------------|-----|---------|------|---------------------|---------------------------------|-------------------------|--|
|   |  | 2007     |     |     | 2008 |     |     | 2009 |     |     | 2010 |     |     |                  |              | 2011               |     |         | 2012 |                     |                                 |                         |  |
|   |  | Apr      | Jul | Oct | Apr  | Jul | Oct | Apr  | Jul | Oct | Apr  | Jul | Oct |                  |              | Apr                | Jul |         | Oct  | Apr                 | Jul                             | Oct                     |  |
| 0.1 Organize JCC at least once a year   | Project progress / plans shared and decisions made in timely manner (Signed minutes of Meeting of JCC)                           |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | PD                  | FM, PC, FFM                     | JE, CA, C               |  |
| 0.1.1 Organize JCC for approval of PDM2, PO2, DPO2, and APO2011   | ditto  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.1.2 Organize JCC for approval of indicators for PDM2, and APO2012                                       | ditto  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.1.3 Organize JCC in relation to joint terminal evaluation   | ditto  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.1.4 Organize JCC in relation to termination of the Project  | ditto  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.2 Develop a DPO based on PO for approval by JCC   | Approved DPO to be fully utilized by technical MCFIF staff   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | PD                  | FM, PC, FFM                     | JE, CA, C               |  |
| 0.2.1 Draft DPO based on PO   | Drafted DPO  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           |                         |  |
| 0.2.2 Conduct DPO review meeting and finalize DPO   | Finalized DPO  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           |                         |  |
| 0.2.3 Approve DPO at JCC (Activity 0.1)   | Approved DPO   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           |                         |  |
| 0.3 Develop an annual PO (APO) based on the DPO for approval by JCC                                       | Approved APO for smooth implementation of Project activities   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | PD                  | FM, PC, FFM                     | JE, CA, C               |  |
| 0.3.1 Draft APO based on DPO  | Drafted APO  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.3.2 Conduct APO review meeting and finalize DPO   | Finalized APO  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.3.3 Approve APO at JCC (Activity 0.1)   | Approved APO   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.4 Develop an annual report for review by JCC  | Project progress and achievements to be timely shared at JCC (Prepared annual reports)   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | PC                  | FPM, SOs (LPT, BGL, PYP)        | JE, CA, C               |  |
| 0.4.1 Draft annual report based on progress and achievement of project activities                         | ditto  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.4.2 Review the draft report and finalize  | ditto  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.5 Organize internal project meeting regularly   | Progress and issues confirmed and necessary actions to be taken in timely manners (Prepared meeting records)                     |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | PC                  | FPM, SOs (LPT, BGL, PYP)        | JE, CA, C               |  |
| 0.5.1 Organize Township level meeting monthly (SO+RO+JET)   | ditto  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | SOs (LPT, BGL, PYP) | ROs under township              | JE Team members on site |  |
| 0.5.2 Organize District level meeting quarterly (FPM+SO+(RO)+(PC)+JET)                                    | ditto  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | FPM                 | SOs (LPT, BGL, PYP), (RO), (PC) | ditto                   |  |
| 0.5.3 Organize Project Management meeting quarterly (PM+PC+FPM+JET)                                       | ditto  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | PM                  | PC, FPM,                        | ditto                   |  |
| 0.6 Monitor the achievement of the Indicators periodically  | Indicators appropriately monitored to confirm achievement of outputs/ outcome  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | PC                  | FPM, SOs (LPT, BGL, PYP)        | JE, CA, C               |  |
| 0.6.1 Draft monitoring plan and forms   | Prepared monitoring plan and forms   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.6.2 Monitor progress/ achievement   | Prepared monitoring records, reports   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.7 Prepare for joint evaluation  | Provide data/ information readily available for evaluation   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | PC                  | FPM                             | JE, CA                  |  |
| 0.7.1 Compile progress and achievement of project activities  | Prepared reports   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.7.2 Collaborate with joint evaluation mission and provide necessary information                         | Data/ information readily available for evaluation   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.8 Follow up the recommendations of the review/evaluation  | Recommendations incorporated in Project and contribute to outputs/ outcome (Annual Completion Reports, relevant meeting minutes) |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | PC                  | FPM                             | JE, CA                  |  |
| 0.8.1 Integrate recommended activities into APO   | Prepared APO   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.8.2 Confirm progress/ achievement of recommended activities and integrate results as part of monitoring | Results/ records of follow up  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.8.3 Update APO based on progress/ achievement of recommended activities                                 | Prepared APO   |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.9 Conduct public relations for the Project  | Announce about Project and its activities (Prepared agendas, public relation materials)  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | PC                  | FPM, SOs (LPT, BGL, PYP)        | JE, TE, CA              |  |
| 0.9.1 Draft public relation plan  | Prepared plan  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |
| 0.9.2 Implement public relation plan  | Prepared agendas, public relation materials  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   | project brochures, webpage, news letter) |
| 0.9.3 Monitor and evaluate result of public relation activities   | Records of monitoring/ evaluation  |          |     |     |      |     |     |      |     |     |      |     |     |                  |              |                    |     |         |      | ditto               | ditto                           | ditto                   |  |