

## SUBPROJECT COMPLETION REPORT

Of

### Bayog Watershed Rehabilitation Subproject

**Forestry Sector Project**

**Loan Agreement No. PH-P 135**

#### **I. Subproject Description**

The Bayog Watershed Rehabilitation Subproject is located in the Municipality of Bayog, Province of Zamboanga del Sur. It is geographically situated at 123° 02' 36.60" to 123° 07' 2.50" east longitude and 7° 50' 34.96" to 7° 55' 18.40" north latitude and falls within the Universal Transverse Mercator (UTM) No. 86700 - 87600 north and UTM No. 50400 - 51300 east. The Subproject is bounded on the north by the Municipality of Sindangan,1 Province of Zamboanga del Norte, on the east by the Municipality of Kumalarang and Lakewood, on the south by the Municipality of Buug, and on the west by the Municipality of Diplahan, Siay and Kabasalan, all of Zamboanga Sibugay. With an approved area



of 2,520 hectares for Comprehensive Site Development (CSD), accomplishment reached 2,540 hectares covering 11 barangays: Poblacion, Kahayagan, Balumbunan, Depase, Matun-og, Kanipaan, Baking, Conacon, Datagan, Camp Blessing and Dagum.

The major access to the Subproject site is through the provincial road connecting the Municipality of Bayog to the nearby municipalities. This road system connects Barangay Depase, Poblacion, and Kahayagan where some portions of the Subproject site are located. The main portion of the Subproject can be reached through a footbridge from Barangays Kahayagan and Supon. The other portions of the Subproject within Barangay Balumbunan, Matun-og, Dagum, Camp Blessing, Kanipaan, Conacon and Baking are accessible through hiking or horse ride from Barangay Supon across the Sibuguey river.

The Subproject is part of the public domain and declared as timberland under the government's legal classification status. A Community-Based Forest Management Agreement (CBFMA) covering a total area of 3,326.53 hectares was awarded to the Bayog Watershed Rehabilitation Subproject Association (BAWARSA) Inc. on April 02, 2003.

## 1. Purpose/Objectives

### A) Original (at the time of appraisal)

- a. To develop a total area of 2,020 hectares for reforestation, agro forestry, rattan plantation and stream bank stabilization using bamboo by the community people themselves within the five (5) barangays covered by the subproject;
- b. To provide employment and alternative livelihood opportunities for the subproject participants; and
- c. To strengthen the local communities to enable them to manage the watershed on a sustainable basis.

### B) Modification

#### a. Modified purpose/objectives

- a. To develop a total area of 2,520 hectares for reforestation, agro forestry, rattan plantation and stream bank stabilization using bamboo by the community people within the 11 barangays of the Subproject;

#### b. Reasons for the modification

The target area for CSD was originally pegged at 2,020 hectares. However, BAWARSA Inc. was able to establish /develop a total area of 2,164.09 hectares or an excess of 144.09 hectares. With this performance, an expansion area of 355.91 hectares was granted to the Association, which led to the inclusion of another six barangays with a total area of 2,520 hectares.

## 2. Subproject Scope and Dimension

### A. Comparison of Original and Actual Scope & Dimensions

- a.1. Please check: There has been (revision and/  or modification or  no revision and/or modification) of the Subproject scope and dimensions.

ITEM	Original Scope and Dimensions (At the time of appraisal/Planned)	Revised/Modified (Actual)
1.REFORESTATION/WATERSHED /CBFM		

A. Survey, mapping and Planning 1 Year	2,000 ha (August 28, 1995- August 28, 1996)	2,000 ha (August 28, 1995- August 28, 1996)
B. Community Organizing <sup>1</sup> 2 years	2,020 ha (April 10, 1997- April 1999) * IEC Activities * Assistance to CSD activities * Assistance on Networking and Linkage  * Organizational Development and Capacity Building * Livelihood Project implementation * Monitoring and Evaluation	2,020 ha (October 20, 1999- November 2000) * IEC Activities * Assistance to CSD activities * Assistance on Networking and Linkage * Organizational Development and Capacity Building * Livelihood Project implementation * Monitoring and Evaluation
C. CSD ( 3 years)	2,020 ha (1997-2000)	2,520 ha (1997-2003)
1. SOIL EROSION CONTROL		
a. Trail and footpath		
• Graded Trail	52,504 meters	87,213.50 meters
• Footpath	52,504 meters	87,213.50 meters
• Model Farm		
2. VEGETATIVE MEASURES <sup>2</sup>		
a. Agro forestry	550 ha	789.06 ha
b. Tree Plantation		
d.1. Bamboo	53 ha	54.75 ha
d.2. Rattan	717 ha	720.97 ha
D.3. Plantation Sp.	700 ha	955.22 ha
3. Inventory of residual forest	N/A	N/A
4. Income Enhancement	N/A	N/A
Subproject		

<p>5. Infrastructure (CSD)</p> <ul style="list-style-type: none"> <li>• Bunkhouse</li> <li>• Look-out Tower</li> <li>• Fire lines</li> <li>• Fire Breaks</li> <li>• Hedgerows</li> <li>• Nursery Facilities</li> <li>• Shed House</li> <li>• Stock Room</li> <li>• Water tank</li> </ul>	<p>2 units 4 units 700 ha 700 ha</p>	<p>4 units 5 units 177,995 sq. m 1,555.91 ha 1,000.00 ha 1 unit 1 unit 1 unit 1 unit</p>
<p>3. INFRASTRUCTURE COMPONENT</p> <ul style="list-style-type: none"> <li>• Farm-to-Market Road Rehab.</li> <li>• Construction of Bridge</li> <li>• Repair of Bridge</li> </ul>		<p>6.76 km.  1 unit 1 unit</p>
<p>C. MONITORING &amp; EVALUATION</p> <p style="text-align: center;">Year 1 (2000) (Physical Validation)</p> <p style="text-align: center;">Year 2 *(Physical Validation Component)</p>	<p>Inspection Chart Mapping (ICM)</p> <p>Inspection Chart Mapping (ICM)</p>	<p>2,020 ha Feb.28, 2000- February 28, 2001</p> <p>2,520 ha May 15, 2002- November 2002 * Verification of Boundaries, monuments, and block corner posts * Seedling production inventory analysis * Survival Counting with 20% sampling intensity, including mapping of developed areas * Height and diameter measurement, assessment of overall health/appearance</p>





<p>Others: Infrastructure Facilities Turned-Over to DENR- SUSIMO</p> <p>Others</p>		<p>the implementation of a Capital Build-up System for CBFMP</p> <ol style="list-style-type: none"> <li>3. Watershed and Mangrove Orientation Course and other related guidelines on FSP</li> <li>4. FSP-Orientation Course</li> <li>5. On-The-Job Training on GIS/GPS Operation</li> <li>6. FSP Phase out/Phase in Planning workshop</li> </ol> <p>1 unit Camera 1 unit Air conditioner 1 unit Dining Table 3 units Office Tables 9 units Monobloc Chairs 1 unit Bamboo Bed 1 unit Bed Foam 1 unit Gas Range 1 unit Gasul Tank</p> <p>1 unit SUSIMO Office</p>
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1 Please refer to Table 1 for the details on trainings attended by the POs

2 Table 2 Details the subproject performance in terms of area planted

3 Table 3 shows the details of the equipment provided to the SUSIMO

4 Please refer to Table 4 for the trainings attended by the SUSIMO staff

## B. Reasons for Revision/Modification of scope and Dimensions

b.1. Where there has been "revision/modification" of the Subproject scope and dimensions.

- Revision of the superior plan (e.g. sector development plan, etc.)
- Revision of the supply-and-demand estimate
- Large fluctuation in the Subproject cost
- Substantial revision of design due to the unforeseeable physical condition at the time of the original design (e.g. poor soil condition, etc.)
- Natural disaster/unseasonable weather
- Unusual circumstances beyond the control of the Executing Agency
- Structural and organizational problems of the agencies concerned (e.g. lack of staff, inadequate coordination with other agencies, etc.)
- Availability of funds (e.g. lack of funds, use of contingency, fluctuation of the exchange rate, etc.)
- Unrealistic initial plan/Technical problems
- Procurement problems
- Performance of contractor/supplier
- Performance of consultant
- Change in construction period
- Others

B.2. Detailed statement of reasons (with background)

- Revision of the superior plan

*Comprehensive Site Development:*

The establishment and development of additional areas by the PO in excess of original target of 144.91 hectares triggered changes not only in the CSD scope but in almost all subcomponents as well. The excellent performance achieved without any additional budget in nursery and plantations establishment, was rewarded with the grant of additional expansion area of 355.91 hectares or a total revised target area of 2,520 hectares. However, during the final validation and survey of the established plantations, it was found out that the PO had even exceeded the revised target area with its accomplishment of 2,540 hectares or an excess of 20 hectares. Consequently, other targets of infrastructures like bunkhouses, look-out towers, graded trails and footpaths were increased for better monitoring and protection of plantation. Likewise, activities perceived necessary in the Subproject were also established such as fire lines and model farm for fire protection.



### *Community Organizing:*

There were changes in the contractor for CO. The two-year CO contract was originally awarded to the Technological Advocates for Agro Forest Programs Association or TAFPA. However, it was cancelled/terminated due to non-compliance with the provisions of the contract. The CO contract was then rewarded to ZAMBAYUGMI for the continuation of the remaining activities left out by TAFPA. The remaining activities were completed in November 2000.

### *Infrastructure (added component of FSP):*

When the NFDO together with the Technical Assistance team conducted an assessment of each subproject in 2000, they assessed that inclusion of the infrastructure support project especially livelihood development within Forestry Sector Project will provide great help to the PO. This finding led to the addition of the said component.

### *SUSIMO Creation*

The Project Management Office initiated the Creation of SUSIMO to provide effective and efficient management of the Subproject on the field/ground level. The issuance of Department Administrative Order (DAO) No. 2000-65 entitled " Guidelines Governing the Creation of Subproject Site Management Office and its Institutionalization in the Forestry Sector Project Implementation", mandated the Regional and the Field Offices to install the SUSIMO for each subproject site and be manned by competent DENR permanent personnel. The SUSIMOs were provided with facilities and other equipment as well as capability building trainings for its staff for better subproject administration.

Substantial revision of design due to the unpredictable physical condition at the time of the original design (e.g. poor soil condition, etc.)

Some of the identified and recommended species in the original plan were changed to species preferred by the members of the community themselves because of suitability of chosen species to the area and economic viability. Under the reforestation component, *Eucalyptus Camaldulensis* and *Gmelina* species were changed to *Mahogany*. For the Agro forestry Component, *Mango* and *Jackfruit* species were changed to *Durian* and *lanzones*.

## C. Contribution of Subproject to Relevant (Sub) Sector(s)

c.1. (Sub) Sector (s) to which the Subproject belongs

- Electric power and Gas**     **Telecommunication**     **Social services**
- (Multipurpose) Dams     Telecommunication     Water supply
- Power Plants     Broadcasting     Sewerage
- Transmission lines     Education
- Distribution Systems     **Irrigation and Flood control**     **Health**
- Gas     Irrigation     **Tourism**
- Others     Flood control
- Transportation**     **Agriculture, Forestry and Fisheries**
- Roads     Agriculture and Forestry
- Bridges     Fisheries
- Railways
- Airport     **Mining and Manufacturing**
- Ports     Mining
- Marine Transportation     Manufacturing
- Others (Foot Bridge and employment)

c.2. Original (At the time of appraisal/Planned)

Item	Description
1. Subproject Development Plan	<p>Through the Socio-Institutional and Bio-physical Components of the Subproject, local communities will become partners and active developers in the enhancement and protection of the watershed through various activities. Relatively, improvement in vegetative cover within the area will enhance the good quality and yield of water resources within and adjacent areas.</p> <p>Involvement of the community in plantation establishment will provide them immediate employment thus eliminating destructive activities that contribute to the deforestation of the watershed area.</p>
2. Livelihood Projects	<p>Implementation of viable livelihood projects will result to an increase in the household income of the community. A PO will be organized and capacitated to establish</p>

<p>3. Provision of Community Based Forest management Agreement as a Land Tenure Right over the area.</p>	<p>linkages with other government and non-government organizations to enhance the livelihood projects as additional source of income while waiting for the harvest of forest and non-forest products.</p> <p>Sense of ownership over the awarded CBFM area would encourage active participation of the community members in deterring illegal activities and cutting of tree species within the area. Moreover, there would be ripple effects as surrounding communities get inspired with the showcase and would want to embark on similar undertakings. It will create environmental awareness in adjacent communities.</p>
<p>4. Irrigation System Support</p>	<p>Irrigation Systems, downstream key production areas, farm lands households, industrial and commercial establishments will be serviced by the watershed in terms of supplying their water requirements. This will create positive impact to the community, thus create awareness and prod communities to pursue the protection and continuous development of the watershed.</p>

c.3. Present situation and outlook for the future

Item	Description
<p>1. The community and its Tenurial Instrument.</p>	<p>BAWARSA, Inc. was organized primarily to manage and develop the Bayog Watershed Subproject. During its implementation, the members were taught proper management and sustainable development of the watershed with the help of DENR-SUSIMO and NGOs. They were</p>

	<p>provided several trainings and workshops on technology aspects, financial management, livelihood establishment and effective organizational management. These skills are also meant to guide them in the proper management of their resources in the future as they were already awarded with CBFMA area giving them the right to manage and develop a total area of 3,326.53 hectares for 25 years and renewable for another 25 years.</p>
<p>2. Livelihood Projects implemented by the Association of BAWARSA<sup>5</sup></p>	<p>The PO established three livelihood projects; Consumers Store, Rice Trading and Transportation Services with a total CFDF/CBU amounting to PHP 2,214,987.75. The PO is inspired to implement other viable livelihood projects in the future that will ensure high rate of employment generation within the community.</p>
<p>3. BAWARSA Women's Organization</p>	<p>The women sector of the subproject was organized last November, 2003 and registered with the Department of Labor and Employment (DOLE) on January 19, 2004 to implement other possible livelihood. The creation of Women's Organization is envisioned to create more employment opportunities within the community and it is also envisioned to conduct community services like; non-formal education, information dissemination, facilitate trainings, among others.</p>
<p>4. Infrastructure</p>	<p>The development of infrastructure projects (Farm to Market Road and Hanging Bridge) greatly improved the mobility and facilitated ease in transporting agricultural and livelihood products of the PO to the nearby market and municipalities.</p>

<p>5. Support of LGU</p>	<p>The support and services rendered by the Provincial and Municipal LGU to the Subproject give an assurance that the project of the PO will be sustained in the future. Moreover, with the support, it is envisioned that maintenance of the farm-to-market will be sustained.</p>
<p>6. Project Development</p>	<p>All activities set forth in the approved contract and WFP of the PO were completed and have exceeded the target especially in the reforestation component. With a high survival rate of the established plantation, it is expected that the water yield and quality will improve as a result of good vegetative cover; thus, further reducing the risk of flashfloods, soil sedimentation and soil erosion. It will also provide enough supply of water to support irrigation system for downstream communities. Currently, the Project supports a newly constructed irrigation dam of the National Irrigation Administration (NIA) for farmlands within the municipality of Bayog and its adjacent places.</p> <p>The construction of CSD infrastructures more than the required target shows a strong commitment of the PO to make the project successful.</p> <p>With the continuous maintenance and protection of their established tree/reforestation, agro-forestry, rattan and bamboo plantations, it is expected that high plantation yield and sustainability of the project will be attained in the future.</p>

5 Please refer to Table 5 for the livelihood project being implemented by the POs

## II. Subproject Implementation

### 1. Organizations for Implementing Subproject

Function in the Subproject Implementation	Name of Organization		Reasons for Change
	(1) Original	(2) Changed	
1.NGO for SMP	Tungawan AgroForest Planters Association, Inc. (TAFPA)/Rep. Danilo Delos Santos		
2.AO for CO	Technological Advocates for Agro-forest Programs Association, Inc.(TAFPA)/Rep. Danilo Delos Santos	Zamboanga (Bayog) Unified Green Movement, Inc./Rep. Felipe Calipusan	Terminated/ Cancelled
3.Assisting Professional (AP)	Evangeline Vidal	Eduardo Torralba	Contract expired/ none renewal
4.PO for CSD	Bayog Watershed Rehabilitation Subproject Association, Inc.		
5.NGO for M&E  (Physical& Institutional Components)	Summer Developer's Association, Inc./Rep. Remus Bersamin		
Year 2 (Physical Component)	Agro-Forestry Technology		

(Institutional Component)	Services Association (AFTECH) (Rep. Antonio Lao)		
6. NGO for Infrastructure	Greenshield Association Inc. (Rep. Reynaldo F. San Antonio) YSL Builder Inc. (Rep. Joseph Lim)		

Please state:

1.1 Reasons for the change

*A. For Community Organizing*

Bayog Watershed Rehabilitation Subproject was organized by two (2) groups of community organizer. The first Community Organizing activities was awarded to Technological Advocates for Agro-forest Programs Association Inc. (TAFPA) represented by Mr. Danilo Delos Santos on April 10, 1997. The contract was terminated due to non-compliance with stipulated provisions and abandonment of his obligation as a contractor. The remaining CO activities were then awarded to a qualified bidder based on the criteria set for CO contract, the Zamboanga (Bayog) Unified Green Movement Inc. (ZAMBAYUGMI) represented by Mr. Felipe Calipusan on September 30, 1999. All activities set forth in the approved WFP of the second AO contractor were undertaken and accomplished.

*B. For Assisting Professional*

Two Assisting Professionals (AP) were initially hired by the PO to assist the SUSIMO in ensuring effective and efficient implementation of the Subproject components. However, the expired contract service of the first AP, Evangeline Vidal was not renewed due to attitude problem which resulted to unsatisfactory performance as complained by the PO and SUSIMO. Mr. Eduardo Torralba was immediately hired by DENR thru OIDCI whose expertise is on livelihood development. This time, the second AP successfully assisted the PO in the implementation of the identified livelihood projects.

1.2 Problems arising, counter measures adopted and results

Problems arising during the subproject implementation:

#### A. For Community Organizing

- (1) The Assisting Organizing (AO) TAFPA failed to comply with the provisions stipulated in their contract.

The DENR-Central Office terminated the contract of the AO (TAFPA) and re-awarded another contract to the qualified AO based on the criteria set forth in DENR MC 97-03 for the continuation of the remaining CO activities. As a result, the POs' knowledge and skills in project management has improved.

- (2) The AO failed to establish linkages with other agencies or organizations in providing technical and additional financial assistance particularly for the livelihood project to sustain the Association while waiting for the harvestable products in the Subproject area.

SUSIMO and PO coordinated with the LGU and other government agencies particularly with the Department of Agriculture (DA) to provide assistance to the PO's livelihood projects. As a result, the PO was given a warehouse building, which is used as PO office, incinerator, and Solar Drier worth Php 2.2 million by Governor Aurora Cerilles (Province of Zamboanga del Sur).

- (3) PO's Lack of understanding regarding their responsibilities and objectives during the early stage of project implementation.

The DENR, from top management down to field level facilitated and assisted the PO in reviewing and reiterating the functions and responsibilities of the PO BOT's, Officers and member. As a result, functions and responsibilities of the PO were clearly understood.

#### B. For Assisting Professional

The AP assigned in the area was not well versed on the objectives and concept of the FSP Subproject, particularly the CBFMP.

The AP was invited and requested to attend every IEC activity conducted in the Subproject. Likewise, leveling off meeting with the concerned AP was facilitated by the SUSIMO. As a result, FSP and CBFMP concept were fully understood by the assigned AP.

#### C. For Comprehensive Site Development (CSD)

Occurrence of El Niño phenomenon between 1997 and 1998 resulted to the poor plantation survival rate. The PO in coordination with the DENR



formulated strategies and counter measures to address the said problems, such as follows:

- Organized an internal quality inspection committee composed of Board of Trustees and PO Technical Staff to conduct the quarterly inspection, monitoring and supervision of the plantation.
- Conducted training on proper ways of handling/transporting seedlings, site preparation and planting particularly hole digging with a minimum diameter equal to thrice the diameter of plastic bag and depth.
- Due to far distance and terrain of sites, backyard nurseries were allowed aside from the main and sub nurseries with close monitoring and supervision of the technical staff of the association.
- Intensive IEC activities were conducted per barangay.
- The PO requested the DENR for change of suitable species preferred by the community.

With the above strategies, the survival rate went up and the quality of the plantations improved. The PO even exceeded the required target by 144.09 hectares, thus, resulted to the approval of the additional expansion area of 355.91 hectares or a total revised target of 2,520 hectares from the original target of 2,020 hectares. However, during the final survey of total plantation area, it was found out that the PO has again exceeded the revised target by 20 hectares. Said excess plantations were no longer paid by the DENR. The Association now garnered a weighted average survival rate of 90.39%.

1.3 The latest organization chart (or equivalent) for the implementation of the Subproject is ( attached or  not available).

Organizational charts are attached as Annex 1a, 1b, 1c, 1d, 1e, 1f, 1g, 1h and 1i for Tungawan Agro-Forest Planner Association, Inc. (SMP contractor), Technological Advocates for Agro-Forest Programs Association, Inc. (CO Contractor), Zamboanga-Bayog Unified Green Movement, Inc. (CO Contractor), Bayog Watershed Rehabilitation Subproject Association, Inc. (CSD Contractor), Summer Developers Association, Inc. (M&E Contractor), Agro-Forestry Technology Services Association (M&E Contractor), Greenshield Association, Inc. (M&E Contractor), SUSIMO- Bayog, and YSL Builders (Infrastructure Contractor), respectively.

## 2. Implementation Period

### A. Comparison of Original Schedule and Actual Period

ITEM	ORIGINAL SCHEDULE	ACTUAL PERIOD
1.Survey, Mapping and Planning	August 28, 1995-August 28, 1996	August 28, 1995-August 28, 1996
2.Contract of AO for CO	April 10, 1997 - April 10, 1999	October 20, 1999 to November 2000
3.Contract of PO for CSD	September 22, 1997 to December 30, 2000	September 22, 1997 to June 30, 2003
4.Contract of NGO for M&E	February 2000-May 2003	February 2000- June, 2003
5.Contract of Infrastructure Component	February 11, 2002- May 16, 2003	February 11, 20002 - October 15, 2003
⊙ Completion (Completion of Subproject)	December 2000	October 15, 2003

Please refer to Table 6 for the subproject status report

Notes: Completion of the Subproject was defined as ( completion ceremony or  final disbursement or  other than the above.

The completion date was scheduled for **December 30, 2000** (at the time of appraisal) and is indicated (thus ⊙) in the above Table.

#### B. Reasons for Delay or Early Completion

b.1. In case of delay or early completion, please choose the reason(s) from the following list and check.

- Change in scope/dimensions
- Natural disaster/Unseasonable weather (e.g. Earthquake, typhoon, etc.)
- Shortage of funds/Fluctuation of the exchange rate
- Problems in procurement
- Inflation
- Unusual circumstances beyond the control of the Executing Agency
- Structural and organizational problems of the

Agencies concerned (e.g. lack of staff, inadequate Coordination with other agencies, etc.)

- Legislative matters
- Unrealistic initial plan/Technical problems
- Performance of contractor/supplier
- Performance of consultant
- Others (*M&E report improvement*)

b.2. Reasons and background for delay or early completion

- Performance of contractor/supplier

#### *On Community Organizing*

The original contract for CO was only for two years covering the period from April 1997 to April 1999. The completion of Community Organizing activities as planned was delayed due to non-compliance of the former CO contractor (TAFPA) to the provisions stipulated in their contract and abandonment of his obligation as a CO contractor that resulted to termination of contract.

- Change in scope/dimension

#### *Comprehensive Site development Contract (CSD)*

During the early implementation of the Project, the established plantation suffered from high rate of mortality due to the EL Niño phenomenon that occurred between 1997 and 1998. This has led to the extension of the contract duration as approved by the JBIC for the FSP to improve the quality of plantations and to attain a greater survival rate. The PO intensified the maintenance activities such as: ring weeding, cultivation, establishment of firebreaks and fire lines, application of fertilizer and patrol work.

- Structural and organizational problems of the Agencies concerned (e.g. lack of staff, inadequate Coordination with other agencies, etc.)

During the early stage of implementation, one site coordinator was assigned in the Subproject area to assist, facilitate, monitor and evaluate the performance of the AO, PO, and M&E contractor. Assistance to the AO and the PO's performances were ineffective, resulting to backlogs and low survival rate of the established plantation. In the same manner, the created Composite Inspection Committee (CIC) was loaded with multiple

functions in their respective offices resulting to delays in the conduct of monitoring and evaluation on the accomplishments of contractors.

Change in scope/dimensions

#### *Infrastructure Component*

The completion of the infrastructure project was extended due to the inclusion of an additional 1.3 kilometers as requested by the LGU. And also because of the financial management problem of the contractor who had no sufficient resources to pay its workers. These two situations caused delay in the completion of the infrastructure project.

Others (M&E report improvement)

After the completion of M&E activities on May 2003, the concerned M&E contractors facilitated the submission of respective reports to the Regional Office and NFDO. However, evaluation showed that there were some vital information not reflected in the final report and rectification based on the recommendation made by the Regional Office and NFDO was suggested. This led to the one-month extension for the rectification/improvement of M&E report.

### C. Remedial Action Taken in Each Case of Delay

#### *Community Organizing*

TAFPA's incompetence led to the immediate termination of its contract. The remaining activities were awarded to a qualified contractor and the DENR adhered strictly with the existing guidelines for Community Organizing contract. Likewise, close monitoring and supervision of the DENR personnel helped in the accomplishment of the remaining activities and expected outputs.

#### *Comprehensive Site Development*

Pursuant to MC 2000-19 related revision of the WFPs and amendment of the CSD contracts to update the cost was undertaken.

#### *Infrastructure Component*

In the case of Infrastructure, the site engineer together with ISTaF closely monitored and supervised the activities implemented by the contractor based on the approved work plan. Corrections on the contractor's activities were noted and listed under the watch or punch list

to which the contractor agreed to rectify. Likewise, monthly kick-off meetings were undertaken to immediately address the problems and issues encountered. Further, remedies and strategies were done in order to accomplish all activities as set within the given period. One strategy was the financial assistance extended by PO-BAWARSA to concerned contractor by lending some amount and guarantees to the suppliers of materials for the contractor to accomplish all activities as scheduled.

### *Monitoring and Evaluation*

A one-month extension was given to respective M&E contractors for the rectification of their final reports based on the existing guidelines of M&E.

### 3. Subproject Cost

#### A. Comparison of Original Estimated Cost and Actual Expenditure (by Component)

<b>Item</b>	<b>Original Cost (Based on appraisal) (In M pesos)</b>	<b>Actual Expenditures (In M pesos)</b>
Survey, Mapping and Planning	1.350000	1.350000
Community Organizing	5.559378	2.908091
Comprehensive Site Development	25.549460	58.495256
Monitoring and Evaluation	3.471560	3.463480
Infrastructure Dev't	19.013561	19.013561
Subproject Coordinating Office	2.283240	2.283240
<b>TOTAL</b>	<b>57.227199</b>	<b>87.513629</b>

Please refer to Tables 7,8,9, 10 for the details on cost of SMP, CO, CSD, and M&E.

List of Infra project/s with its corresponding cost is also attached as Table 11

## B. Reasons for Difference between Original Estimated Cost and Actual Expenditure

- Increase in reconstruction cost arising from natural disaster/unreasonable weather (e.g. earthquake, typhoon, etc.)
- Increase or decrease arising from a change in construction Period
- Increase or decrease arising from inflation
- Increase or decrease arising from fluctuation in the exchange rate
- Increase or decrease arising from a change in the scope/work volume of the Subproject
- Decrease arising from keen competition in tender
- Unusual circumstances beyond the control of the Executing Agency
- Unrealistic cost estimates/Technical problems
- Others

### b.1. Description of the detailed reason(s) and background

- Increase or decrease arising from a change in the Scope/work volume of the Subproject

#### • *For Comprehensive Site Development*

There was an increase in the estimated cost and actual expenditure of the CSD component due to the expansion area given to the PO for attaining a remarkable performance and exceeding the original target. Likewise, the cost increased due to current change in the economic situation of the country whereby there was an urgent need to adjust the cost of establishing, maintaining and protecting the established plantations in the subproject. Thus, MC 2000-19 "Guidelines Governing the Updating of Cost Estimates and Intensification of Plantation Maintenance and Protection Activities for DENR" for FSP Watershed Subprojects under JBIC funding was adopted. This resulted to increase in unit cost of various activities of different components as well as increase in frequency of ringweeding, cultivation, application's of fertilizer, patrolling and establishment of additional targets for infrastructures; such as footpaths, graded trails, bunkhouses, look out towers and fire lines.

- Unusual circumstances beyond the control of the Executing Agency (Performance of the Contractor)

- *For Community Organizing*

Due to termination of the TAFPA contract, the contractor filed a case in the court against the DENR. The amount intended for the activities under the contract of TAFPA was excluded in the total contract cost of the new AO, tapped by the DENR to continue the CO activities of the subproject. The intended amount was retained at the Regional Office.

- *Action taken in Case of Cost Overrun and Results*

A revision of the WFP for the CSD components was carried out and approved due to the additional plantation target and volume of work for the infrastructure. A supplemental contract was made and approved to support the changes/revisions made. The additional amount was allotted and obligated to effect the payment for the accomplishments.

C. Comparison of Original Estimated Expenditure and Actual Expenditure (by Year)

<b>Calendar Year</b>	<b>Original Cost (based on appraisal) (in M pesos)</b>	<b>Actual Expenditures (in M pesos)</b>
1995	1.350000	1.350000
1996	-	-
1997	18.296078	0.523343
1998	7.229630	2.772433
1999	3.659751	8.159079
2000	3.915578	14.379005
2001	0.470000	17.108166
2002	2.197360	24.992024
2003	1.095240	18.229578
<b>Total</b>	<b>57.227199</b>	<b>87.513629</b>

Please refer to Table 12 for the details of Annual Work and Financial Plan.

4. Comments on Performance of Survey, Mapping and Planning (SMP), Assisting Organizations (AOs), Assisting Professionals (APs), Peoples Organizations (POs), M&E and Infrastructure contractors.

Please describe the performance of each organization after checking the item(s) in the relevant lists on which you have any comment.

A. Performance of Assisting Organizations & Assisting Professionals (If any) Peoples Organizations, M&E and Infrastructure contractors

- a.1.  Overall performance       Design  
 Contract administration       Construction supervision  
 Expertise       Staff qualifications  
 Coordinating ability       Compliance with Contracts  
 Performance related to any other than the Subproject scope, if any.  
 Others

a.2 Description (in detail)  
Overall Performance

- *Survey, Mapping and Planning*

Tungawan Agro-Forest Planner Association Inc. (TAFPA), represented by Mr. Danilo Delos Santos, conducted the Survey, Mapping and Planning Component of the project. It was contracted on August 28, 1995 with a total contract cost of P1, 350,000.00 covering an area of 2000 hectares. All activities stipulated in the approved contract and WFP were completed and accepted by the DENR, Regional Office on May 06, 1996. Performance of the contractor was satisfactory for accomplishing all the activities based on the approved contract.

- *Assisting Organizations*

The first AO contractor TAPFA was rated unsatisfactory for not complying with the conditions stipulated in his contract and CO guidelines contained in DAO 97-03, resulting in the termination of its contract. The performance of the assisting organization ZAMBAYUGMI was rated satisfactory since all activities stipulated in the approved WFP were undertaken. AO staff deployed in the Subproject were foresters and experienced in community organizing and other related activities. Although some activities like networking and linkages, assistance in the implementation of identified livelihood were not fully imparted to POs, the AO exerted efforts in working closely with all the key actors in order to convey the real objectives of their activity in relation to Subproject implementation.

- *Assisting Professionals*

There were two Assisting Professionals deployed to assist the Subproject implementation. Both had the capability to facilitate technical assistance to PO. The former had expertise in organizational



management while the latter's expertise was on livelihood development and implementation. The latter AP had assisted and facilitated the implementation of the identified livelihood of PO and now operating successfully.

- *Peoples Organization*

The accomplishment of BAWARSA on CSD activities showed a remarkable performance in attaining the target based on the approved contract and WFP. The overall performance of the Association was rated very satisfactory for completing and exceeding its target. Technically, the PO now possessed all the necessary skills, knowledge gained from training/seminars conducted. They are now qualified as forestry skilled leaders and stakeholders in terms of expertise in implementing CSD activities.

- *Monitoring and Evaluation*

The performance of the contractors for M & E, both Physical and Institutional and Project Benefit Assessment was satisfactory. Target activities were accomplished. As to the capability of contractors, most of the staff/members are technically-equipped and knowledgeable in the contracted activities.

- *Infrastructure Contractor*

The performance of the contractor was not satisfactory, in the sense that the scheduled programs of work were not attained as expected based on the approved contract.

## 5. Other matters relating to Subproject Implementation

Please choose the item(s) from the following list on which you have any comment, check it (them), and describe it (them) with measure and results in (B) below.

- A.  Technical    Financial    Institutional    Economic  
 Social/Distributional    Others
- B. Description (in detail)  
 Technical

### *Selection of Personnel to man the project implementation*

Monitoring and evaluation of the SUSIMO staff over project implementation was previously insufficient because some of the staff

assigned in the SUSIMO lacked dedication in their work although they possessed technical knowledge and skills. On this, a special order was issued by the Secretary to replace the concerned SUSIMO staff. As a result, the new SUSIMO team worked effectively and efficiently.

### III. Action Taken by the AOs, APs and POs relating to Recommendation(s)

#### 1. Recommendation(s) made by SUSIMO

SUSIMO check: This article is ( applicable. The recommendations are given in Annex - I herewith or  not applicable. There has been no recommendation with regard to the Subproject).

#### 2. Action Taken and Results

Recommendations	Action Taken by AO's	Action Taken by PO's	Results
Development of skills and knowledge of the PO officers and members through trainings on technical, financial and management aspect.	SUSIMO and APs conducted different trainings and workshops like financial system and management seminar, project management, re-orientation on CBFMP, Fire brigade training, among others.	PO members and officers participated actively in all trainings and workshops that were conducted to improve their management skills over the Subproject.	Improvement of PO's knowledge and skills as regards financial and project management were observed.

### IV. Initial Operation and Maintenance of Subproject Facilities

#### 1. Present Condition of Facilities

A. Please check: This article is ( applicable due to problem(s) or  not applicable. No particular problem has occurred since the initial operation started). If there have been any problems, please check the relevant space in the Table

For the SUSIMO

Item	Status	Initial Operation	Maintenance	Management	Others
1.) GPS	Serviceable				
2.) Compass	Serviceable				
3.) Binocular	Stolen				
4.) Topographic OSk	Serviceable				
5.) Rain Gauge Digital Rain Wise	Serviceable				
6.) Radio Transceiver	Serviceable				
7.) Printer	Stolen			/	
8.) Typewriter	Serviceable			/	
9.) GIS	Stolen				
10.) UPS Gamatronic Compact	Unserviceable				
11.) Personal Computer	Stolen				
12.) Generator			/		
13.) Polar Planimeter	Serviceable Serviceable				
14.) Hand held					
15.) Steel Tape	Serviceable				
16.) Charger	Serviceable				
17.) KIA Ceres	Serviceable				
18.) Working Animals	Unserviceable Unserviceable				
19.) Truck (KIA -2700)	Serviceable			/	
20.) Motorcycle	Serviceable		/		

For the PO

Item	Status	Initial Operation	Maintenance	Management	Others
1.) Bunkhouse	Serviceable			/	
2.) Look-out	Serviceable			/	

Tower					
3.) Incinerator	Serviceable				
4.) Solar Tunnel Drier	Serviceable				
5.) PO Building	Serviceable				
6.) Communication Equipments	Serviceable				
7.) Motorcycle	Serviceable				
8.) Truck	Serviceable				
9.) Computer	Serviceable				
10.) Printer	Serviceable			/	
11.) Air conditioner	Serviceable			/	
12.) Filing/Steel Cabinet	Serviceable				
13.) Minolta-EP 1054 Copier	Serviceable			/	
14.) Video Camera	Serviceable				
15.) Nursery Facilities	Serviceable				
16.) Electric Fan	Serviceable			/	
17.) Type Writer	Serviceable			/	
18.) Water pump	Serviceable				
19.) Television	Serviceable				

B. Please check: The Problem(s) has arisen owing to the following reason(s).

- Technical     Financial     Institutional     Economic  
 Social/Distributional     Others

C. Description (in detail)

For the SUSIMO

ITEM	ORIGINAL PLAN	ACTUAL OPERATION
1 Global Positioning System (GPS)	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
2 Compass (Forester Transit)	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO

3 Compass (Brunton Compass)	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
4 Binoculars (7x50)	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
5 Abney Hand Level	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
6 Rain Gauge	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
7 Radio Transceivers	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
8 Steel Tape	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
9 Handheld Radio Battery Charger	For the SUSIMO	For the SUSIMO
10 Printer	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
11 Type writer	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
12 GIS Maptitude	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
13 UPS	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
14 Personal Computer	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
15 Generator	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
16 Two Tunner Truck	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
17 Motorcycles	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
18 Polar Planimeter	For the SUSIMO (Downloaded from NFDO)	For the SUSIMO
19 VHS Player Player	For the AO (Assisting Organization)	Turned-over to DENR-SUSIMO-Bayog
20 Television	For the AO (Assisting Organization)	Turned-over to DENR-SUSIMO-Bayog
21 Tables	For the AO (Assisting Organization)	Turned-over to DENR-SUSIMO-Bayog
22 Petronas Gasul (gas stove)	For the Infra Contractor (YSL Builders)	Turned-over to DENR-SUSIMO-Bayog

23 Air Conditioner	For the Infra Contractor (YSL Builders)	Turned-over to DENR-SUSIMO-Bayog
24 Beddings	For the Infra Contractor (YSL Builders)	Turned-over to DENR-SUSIMO-Bayog
25 Trash Can	For the Infra Contractor (YSL Builders)	Turned-over to DENR-SUSIMO-Bayog
26 Office Building	For the Infra Contractor (YSL Builders)	Turned-over to DENR-SUSIMO-Bayog
27 Camera	For the SUSIMO	For the SUSIMO
28 Tape Recorder	For the SUSIMO	For the SUSIMO
29 Steel Cabinet	For the SUSIMO	For the SUSIMO
30 Office Tables	For the SUSIMO	For the SUSIMO
31 Fire Fighting Equipment	For the SUSIMO	For the SUSIMO
32 Chairs (9 pcs. Office chairs and 10 pcs. Monobloc Chairs)	For the SUSIMO	For the SUSIMO
33 Brush Cutters	For the SUSIMO	For the SUSIMO
34 Gasulette Lamp	For the SUSIMO	For the SUSIMO

For the PO

<b>Item</b>	<b>Original Plan</b>	<b>Actual Operation</b>
1.) Bunkhouse	For the PO	For The PO
2.) Look-out Tower	For the PO	For The PO
3.) Incinerator	For the PO	For the PO
4.) Solar Tunnel Drier	For the PO	For the PO
5.) PO Building	For the PO	For the PO
6.) Communication Equipments	For the PO	For the PO
7.) Motorcycle	For the PO	For the PO
8.) Truck	For the PO	For the PO
9.) Computer	For the PO	For the PO
10.) Printer	For the PO	For the PO
11.) Air conditioner	For the PO	For the PO
12.) Filing/Steel Cabinet	For the PO	For the PO
13.) Minolta-EP 1054 Copier	For the PO	For the PO
14.) Video Camera	For the PO	For the PO
15.) Nursery Facilities	For the PO	For the PO
16.) Electric Fan	For the PO	For the PO
17.) Type Writer	For the PO	For the PO

18.) Water pump		
19.) Television		

2. Organization for Operation and Maintenance

A. Name of PO

a.1. Please give the name of PO and/or Body in charge of O/M.

PO: Bayog Watershed Rehabilitation Subproject Association, Inc.  
(BAWARSA, Inc)

SUSIMO: SUSIMO Bayog- Administrative Support Unit (ASU)

a.2. Please check:

The latest organization chart (or equivalent) for O/M of the Subproject facilities is ( attached or  not available).

The operation and maintenance of Subproject facilities and equipment of the PO were done by the organization itself. In case of malfunctions and loss, it is the organization that will be in charge for the repair and procurement of such equipment. For the SUSIMO, it is the Administrative and Support Unit (ASU) that is in charge of the maintenance of SUSIMO equipment and facilities.

a.3. If the organization chart (or equivalent) is not available, please state the reason.

B. Number of staff/workers of the PO or Body for Operation and Maintenance of Subproject Facilities.

PO (BAWARSA): 18

SUSIMO (Bayog): 2

C. Please check and explain the following.

c.1. The number of staff is currently ( sufficient or  insufficient).  
If "Insufficient", please describe your estimate of the optimum number of staff and your plan for providing them.

c.2. Average employment period of the present staff:

PO (BAWARSA): 2 to 3 years

SUSIMO (Bayog): 4 years

c.3. Availability of training program to promote the vocational ability of the staff, its contents and expected effects.

- None

3. Annual Budget or Actual Expenditure for Operation and Maintenance (by Year)

A. Original Expected Expenditure

For the SUSIMO

(Unit: Mil Pesos)

Item Calendar year	Maintenance	Operation	Total
2001	0.144628	0.433884	0.578511
2002	0.195973	0.587919	0.783892
2003	0.240050	0.480101	0.720151
<b>Total</b>	<b>0.580651</b>	<b>1.501904</b>	<b>2.082554</b>

For the PO

Item Calendar year	Maintenance	Operation	Total
1997	0.114248	0.342744	0.456990
1998	0.003770	-	0.003770
1999	-	0.028550	0.028550
2000	0.030460	0.060920	0.091379
2001	0.037884	0.113649	0.151531
2002	0.081390	0.244168	0.325558
2003	0.124217	0.372651	0.496866
2004	-	0.001270	0.001270
<b>TOTAL</b>	<b>0.391969</b>	<b>1.163952</b>	<b>1.555921</b>

B. Actual and Currently Expected Expenditure

For the SUSIMO

(Unit: Mil Pesos)

Item Calendar year	Maintenance	Operation	Maintenance (For expanded	& Operation portion)	Total
<b>2001</b>					
1. Office		0.113067			0.113067
2. Motorcycle		0.030826			0.030826
3. KIA-Ceres					



<b>2002</b>					
1. Office		0.227080			0.227080
2. Motorcycle					
3. KIA-Ceres		0.035962			0.035962
<b>2003</b>					
1. Office		0.282796			0.282796
2. Motorcycle		0.011400			0.011400
3. KIA-Ceres					
4. KIA-4x4		0.018718			0.018718
<b>2004</b>			0.148750	0.026250	0.180000
<b>TOTAL</b>		<b>0.720000</b>	<b>0.148750</b>	<b>0.026250</b>	<b>0.900000</b>

For the PO

Item Calendar year	Maintenance	Operation	Maintenance (For expanded	& Operation portion)	Total
<b>1997</b> Office		0.028099			0.028099
<b>1998</b> Office	0.001370	0.028550			0.029920
<b>1999</b> Office	0.246510	0.034350			0.280860
<b>2000</b> Office	0.087771	0.151532			0.239303
Computer Typewriter					
<b>2001</b> Office		0.029845			0.029845
<b>2002</b> Office Computer Typewriter Communication Equipments	0.103165	0.023251			0.126416
<b>2003</b> Truck Motorcycle Water pump	0.090627	0.136080			0.226707

Office 2004 Cell phones } Video Camera }		0.027807		0.027807
<b>TOTAL</b>	<b>0.529443</b>	<b>0.495514</b>		<b>1.024957</b>

Note: Actual and currently expected expenditure for expansion, replacement or any other improvement purposes

Please describe the basis for the above estimate and your financing plan for the same.

No amount was given for the expanded portion of maintenance and operation of facilities for the PO. Cost provided was based on actual disbursement. In the case of SUSIMO, facilities were maintained depending on the fund allocation downloaded by the NFDO. However, it will be the responsibility of the concerned CENRO to oversee and maintain these facilities when it will be turned over to their custody. Maintenance cost could be sourced out from the DENR regular funds.

#### 4. Maintenance Method

- A. Content of Method
- B. Frequency

For the SUSIMO

Kind of Facility	Maintenance Method	Frequency
1. 2-ton truck	Repair/replacement of defective parts, Change oil, Wheels rotation	As the need arises  Every 2 months As the need arises
2. Motorcycle	Repair/replacement of defective parts, Change oil	As the need arises  Every moth

For the PO

Kind of Facility	Maintenance Method	Frequency
Computer Copier	* Change of defective lightning * Procurement of office supplies	As the need arises Every Month
Typewriter Printer	(Bond papers, ink for typewriter & Computer, folders, etc.)	
Lightings	* Payment of Electric and Water Bills	Every Month

Shovel, Bolo, Water pump, among Others	* Procurement in case of loss or Wreckage	As the need arises
	* Repairs of defective equipment	As the need arises
PO Building/Office	* Improvements * Repair of defective parts	As the need arises
Communication Equipments	* Repair in case of wreck  * Load for Cell phone	As the need arises Every 1 or 2 Months
Truck	* Change oil * Change of tires	Every 3 months As the need arises
	* Repair and Improvements * Tune up	As the need arises Every 3 months
Motorcycle	* Change oil * Tune up	Every month Every Month

C. Others, if any.

## V. Benefits derived from Subproject

### 1. Indirect Effects

A. Please choose and check the item(s), which are dealt with this Article by you.

- Technological transfer (e.g. application of technology used in the Subproject to other similar projects and subprojects)
- Employment creating (e.g. during construction, contribution to the sector(s) after completion)
- Income-raising (e.g. income of the residents in the region)

Other intended or unintended effects on the relevant sector(s) and/or the region concerned

B. Please give details for each of the item(s) you checked.

#### *Employment Generation*

During the implementation of the CSD, participating communities availed of job opportunities especially plantation establishment, seedlings production and maintenance activities of the watershed subproject. In the implementation of the subproject, it generated employment opportunities to project participants registering 404,601 man-days. As of now, employment generation programs of the PO are still on-going thru their established livelihood projects. Livelihood training opportunities are still being participated in by the communities.

### *Income Raising*

Increase in income of the project beneficiaries is the outcome of employment opportunities generated by implementation of the project as well as the livelihood projects. At the time of appraisal, the annual average household income of the community was PHP 42,000.00. After the project implementation, the annual average household income increased to PHP 68,400.00 or 63% increased based on the final validation for Institutional Project Benefit Assessment (IPBA) conducted by Green shield Association. Indicators of socio-economic improvement can be observed in the community such as improvement of individual houses, availing of education opportunities for their children even up to college level, procurement of household facilities/equipment and implementation of backyard livelihood income generating projects such as African "hito" catfish and shrimp culture.

## VI. CONCLUSIONS AND RECOMMENDATIONS

- The Bayog Watershed Rehabilitation Subproject's overall implementation is very satisfactory. News about its positive socio-economic and environmental impacts has created awareness not only in the province of Zamboanga del Sur but has spread in the entire region.
- The dedication and commitment of the SUSIMO personnel, LGUs and most especially BAWARSA, Inc. played a great role in the Subproject's success.
- It is recommended that policy changes regarding the project must be consulted with the field personnel down to the PO inasmuch as they are the primary beneficiaries of any changes.
- SUSIMO personnel and Community Organizing contractors should be deployed in assigned areas at the initial and final phase of the project to ensure clear interpretation of instructions to be carried out.
- The DENR should be strict with the NGO for community organizing on the matter of staff deployment to ensure that only those with the necessary knowledge and skills are fielded to satisfactorily develop and enhance the technical and social capabilities of the POs.
- Causes of delay in the implementation of the project should be immediately addressed and people who are responsible for such should be meted immediate sanctions and /or be reprimanded.