

COMPREHENSIVE PROJECT PROFILE

1) PROJECT TITLE : Environmental Solid Waste Management Program

- 1.1 Project Location: Dausis, Bohol
- 1.2 Project Proponent: Lgu-Dausis, Bohol

2) BACKGROUND AND RATIONALE

The Municipality of Dausis is found in the southwestern part of the Province of Bohol. In particular, it is located on the eastern part of Panglao Island and is bounded by Bohol Strait on the north; south by the Municipality of Panglao and east by Tagbilaran City. It is a fourth (4th) class municipality and is known for its historical significance as among the oldest municipalities in Bohol since 1883. The Municipality of Dausis has a total land area of 4,457.5176 hectares, which comprises ten (10) coastal barangays and two (2) inland barangays.

These days, Dausis is the most densely populated municipality in the province with about 748 persons per square kilometer. It has become the residential haven in the province of Bohol, for both local and foreign nationals, with the working class from Tagbilaran City and neighboring municipalities as its major dwelling contributors. There is also an increase in transient population with incursion from the Badjao Cultural Minorities. It has been projected that in the next five to ten years there is an expected increase of population of 3.36%.

Increase in population and tourism related establishments would also mean an increase in human and commercial activities. As a result there is also an expected increase in the generation of municipal wastes. As of today, Dausis populace has been generating solid waste of about 10 tons/day for the entire collection area of the LGU, more or less from all barangays. It is expected that in year 2014, or after 10 years, Dausis will be generating about 12.6 tons/day, alarming enough to make the necessary steps and strategies to manage these waste before it will be too late when this time comes in our locality in the future.

The tourism potential of Dausis would be enhanced if ecological balance and aesthetic value of the locality is maintained specifically with sound and improved ecological management of municipal solid waste with complete engineering component, specifically a **compactor**. This facility is indeed a necessity considering that it is provided in the Memorandum of Agreement of the cluster landfill that a compactor shall be used in the transport of garbage. At present, barangay Poblacion is yet the first barangay, which had started implementing solid waste management from segregation to collection. As soon as the sanitary landfill will be established, the other 11 barangays will then start collection and disposal. The use of a compactor is sanitary enough when transporting garbage to its final disposal. For now, the municipality of Dausis could not avail such equipment due to financial constraints.

The project is primarily pointing out to address the environmental problem on proper solid waste management and sanitation. Considering that the municipality is now starting to implement some of the provisions of R.A. 9003 known as the Ecological Solid Waste Management Act of 2000, the volume of residual materials which are temporarily stored at the material recovery facilities in the barangays will be properly disposed of and it would mean reduction of wastes at the local level.

3) PROJECT OBJECTIVES

The proposed project is in line with the millennium development goals of the national, provincial, and municipal governments that give priorities on environmental preservation and sanitation. The core objective of the environmental solid waste management (SWM) program of the Municipality of Dauis is to provide its people a better quality of life through cleaner and healthier environment. This was illustrated with the LGU's vision of an environmental friendly and beautiful municipality through a well-organized and systematic SWM programs with complete logistics.

For a well-implemented solid waste management program, the engineering component shall be available especially the proper equipment and machineries to be used. The collection and disposal functional element in the program is only satisfied when proper equipment like the compactor and dump trucks shall be available.

The maintenance of the compactor and other equipment could be assured considering that the program had already an ordinance in collecting garbage fees from households that be held as a trust fund to maintain the program.

1. Objectives:

Specifically, the project is aimed at the following objectives:

1. To request from the Department of Budget and Management, Manila for the procurement of one unit compactor to be used in collection of garbage in the municipality of Dauis.
2. To maintain the cleanliness and sanitation of the whole municipality with well trained garbage collectors.

4) PROJECT COMPONENTS

This project requires a preparation of this project proposal for approval of the funding agency. Important activities had to be defined as the major components for the realization of the project.

To attain the objectives, the project activities are break down into the following components:

1. Capability Building

1.a. Training of garbage collectors and purok leaders.

There will be three-day training on proper solid waste management and collection among the 4 garbage collectors and 89 purok leaders in 12 barangays. Complete logistics and paraphernalia shall also be afforded to the participants. A massive

reorientation and information education dissemination among the eighty nine (89) puroks in the barangay shall also be conducted to ensure segregation at household level.

For them to be more interested to undertake the project, they should also be exposed to a cross visit to other towns in the province which had advanced performance on proper solid waste management.

2. Equipment Support

To enhance the project on proper solid waste management, provision of proper equipment and machineries is necessary to carry out the program. Aside from the dump trucks and compactor, the garbage collectors need boots, mask, raincoats, gloves, shovel, and containers in collection. Multicabs will also be provided in the barangays to transport their residual wastes to their respective transfer stations.

3. Collection Schedule

A defined collection schedule has to be followed in a week. For barangay Poblacion, collection of residuals is every Saturday and for the biodegradable is every Sunday. Only in Poblacion that biodegradable have to be collected considering that spaces in every household is limited. But for the other barangays, only residuals and recyclables are collected. The collecting route shall be established as soon as collection starts in the remaining barangays.

3. Monitoring and Evaluation

This component will give an update on whether the project is doing fine all throughout the operation period. Aside from the two offices to take the lead in supervising the project namely: the Office of the Municipal Solid Waste Management Office and the Office of the Municipal Engineer, a **Municipal Project Monitoring Committee** shall be created to compose of the Barangay Captain, Barangay Kagawad and SB Chairman on Environment in every barangay, the Municipal Planning and Development Coordinator, Municipal Social Welfare and Development Officer (MSWDO), Municipal Agricultural Officer (MAO), SB Chairman on Environment, Health and Agriculture. They shall all be involved in the implementation and supervision of the project and a monthly meeting to this effect shall be conducted with the Municipal Engineer as the Chairman, to be assisted by the Municipal Planning and Development Coordinator.

V. INPUT REQUIREMENTS

1. Training Materials

In the conduct of the three-day training for the garbage collectors and purok leaders, actual provision of solid waste paraphernalia shall be used in the practicum. Such materials will include gloves, mask, boots, raincoats, hats, shovel, weighing scale, pails, plastic bags, etc.

2. Procurement of one unit compactor

After the training, procurement of above equipment shall be conducted so proper collection and disposal can be started in all barangays.

3. Budgetary requirement and capitalization

a) For the Environmental Solid Waste Management Training

1. Training needs (LGU counterpart)

| | |
|--|-------------------|
| Meals and snacks (50 pax inc. speakers) at 250/day x 3 | = P37,500 |
| Training materials (annex b) | = <u>P 40,000</u> |
| | P 77,500 |

b) Procurement of one unit compactor

1. Total Cost

| | |
|------------------|----------------|
| 1 unit compactor | P 5,000,000.00 |
|------------------|----------------|

Total Project Cost **P5,077,500.00**

V1. IMPLEMENTATION SCHEDULE

| Activities | Year 1 2007 | Year 2 2008 | Year 3 onward |
|---|----------------|----------------|-----------------------|
| 1. Preparation and approval of project proposal | Jun-Oct | | |
| 2. Conduct of Training | Nov-Dec | | |
| 3. Procurement of Compactor | | Jan-Mar | |
| 4. Collection of garbage | | April onward | Year round |
| 5. Monitoring and evaluation | | | Once in every quarter |

V11. EXPECTED OUTPUT

1. Satisfactory Engineering Component for Solid Waste Management Program

Essential as it should be, the engineering component on solid waste management program particularly the compactor, dump truck and material recovery facilities should be in place before an efficient and effective implementation on solid waste management can be achieved. Sanitary transport of garbage shall be maintained for a continuous disposal at the cluster sanitary landfill.

2. Attained Proper Environmental Management and Sanitation

Republic Act 9003 known as the "Ecological Waste Management Act of 2000" had ordered the municipalities to implement the provisions of the law. The Municipality of Daus is not so behind in such implementation considering that material recovery facilities in five (5) barangays are now in place and the remaining seven (7) barangays are on the process of establishing the same. Barangay Poblacion has started collection of garbage and the residuals are brought to their MRF residual containment area. Procurement of additional

dump truck and compactor will keep the volume of garbage be collected as scheduled, thus, we could expect clean surroundings among households.

V111. PROJECT BENEFICIARIES

The direct beneficiaries of this program will be the 6,041 households of Dausis with a total population of 33,332 in 12 barangays.

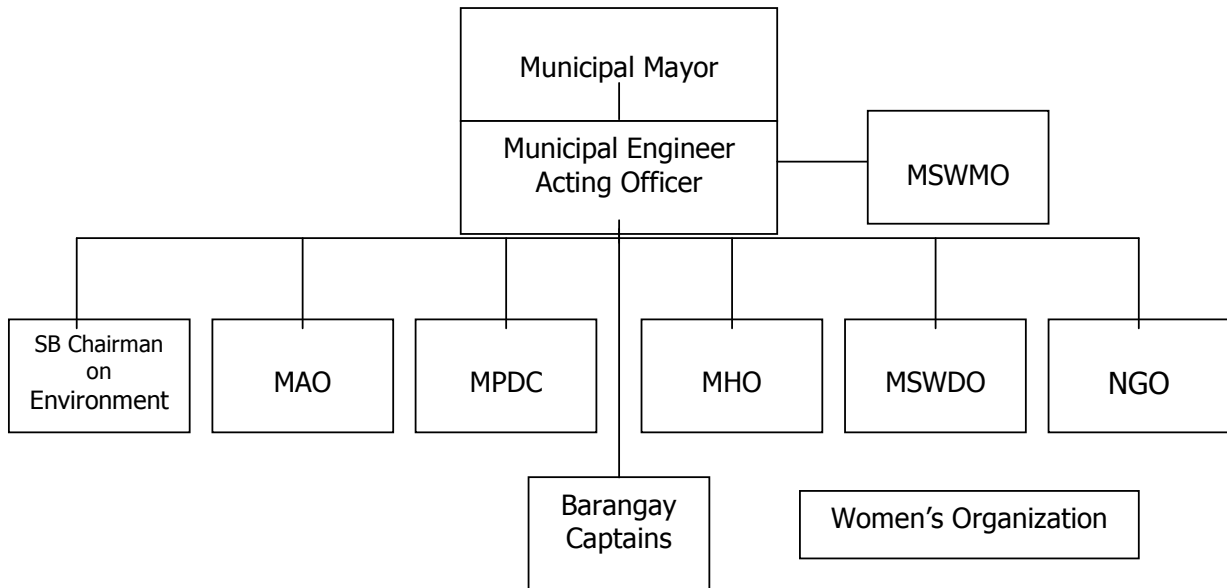
X. IMPLEMENTATION ARRANGEMENT

The lead implementing Office of this project will be the Office of the Municipal Engineer in coordination with the Municipal Solid Waste Management Office. The Municipal Project Monitoring Committee shall conduct a periodic monitoring and evaluation on the progress of the project and shall conduct random visits among households.

The following Offices are committed to handle the responsibilities as stated below for the implementation of the program:

| Office | Responsibilities |
|--|--|
| Office of the Mayor | Oversee the implementation of the program. Conducts consultative meetings as the need arise and gets reports from Offices concerned. |
| Office of the Municipal Engineer | Direct supervision in the implementation of the project. Monitoring and evaluation to be conducted monthly. Facilitate in the reporting to funding agency. |
| Office of the Municipal Solid Waste Management Officer | Handles the daily collection of garbage with staff. Keeps record of the daily wastes generated and oversee the maintenance of the transport facilities. |
| Office of the Municipal Planning and Dev. Coordinator | Lead in the formulation of plans for solid waste management, monitor and evaluate progress and assist in the preparation of reports and conduct of meetings. |
| Office of the Municipal Social Welfare and Development | Lead in community organizing and social participation of the barangay. |
| Office of the Municipal Health Officer | Participate in the information dissemination campaign on environmental sanitation. |
| Office of the Municipal Agriculture Officer | Advocates on composting. Monitoring and evaluation. |
| SB Chairmen on Health, Environment and Agriculture | Advocates the ISWM ordinance. |
| Federated President, Women’s Association | Participate in the information education campaign on ISWM. |
| Barangay Captains | Assist in the implementation of the project. Moral support and monitoring. |

Organization Structure



Institutional Mechanisms

The Integrated Solid Waste Management Ordinance No. 06, series Of 2006 was already approved and it is now ready for implementation. Until the cluster sanitary landfill will be established, so then the ordinance in the municipality will be enforced together with the provision of sufficient engineering requirements. For now, only barangay Poblacion could start implementation considering that the MRF and a multicab for collection of garbage is available. The rest of the barangays shall be waiting for budget and fund sourcing for them to get multicabs.

Participating Government and Non-Government Agencies

The Municipality could also tap the technical services from Non-Government Agencies and Line Agencies like the Bohol Marine Triangle and the Bohol Environment Management Office, City of Tagbilaran and LIFE Foundation.

Purok Leaders and Garbage Collectors

Some 50 purok leaders and 4 garbage collectors will actively participate in the trainings and seminars on solid waste management program. They will report to MSWMO the progress and problems that will hinder the projects` objective. They are the recipient of the equipment and gears that will be provided by the projects and will ensure that these will be properly maintained.

Project Monitoring and Evaluation

The project will be monitored and evaluated monthly to ensure that the expected outputs will be delivered and the objectives will be attained. The Municipal Project Monitoring Committee will do this task. They shall all be involved in the implementation and supervision of the

project and a monthly meeting to this effect shall be conducted with the members of the Municipal Technical Working Group-ISWM.

The Municipal Project Monitoring Committee is composed the Municipal Engineer, Municipal Solid Waste Management Officer, Municipal Planning and Development Coordinator, Municipal Social Welfare and Development Officer (MSWMO), Municipal Agricultural Officer, Municipal Health Officer, the Barangay Captains and the Federated Women’s Associations, SB Chairman on Environment, Health and Agriculture.

X1. PROJECT SUSTAINABILITY AND VIABILITY

Solid Waste Management Program

The project has been identified as a priority program to combat the increasing volumes of waste materials due to increasing population, establishments and activities in the municipality.

To sustain the operation cost of the solid waste management program, the municipality and the Barangays as provided in the ordinance shall collect the monthly garbage fees among households. The income derived from this operation is estimated P3, 000 per month at an average per barangay. Sixty per cent (60 %) of this will go to the Municipality at which it will be treated as trust fund to maintain the program including the maintenance of the transport facilities. The remaining forty per cent (40%) will serve to maintain the operation in the barangays. In addition, the MRF can generate products that can be sold to junk buyers. These consist of bottles, plastic wrappers, papers and scrap iron. Estimated monthly income from these waste products is P2000.00 per month per barangay. The operation cost of the MRF will be taken from this income.

The realization of the cluster sanitary landfill and the projects provision of necessary trainings, equipment and tools, the prompt payment of garbage fees from households are the very factors that contribute to an efficient and effective collection and segregation campaign in the locality.

X11. ESTIMATED BUDGETARY REQUIREMENTS

Estimated Project Cost

The total estimated project cost is **P5,077,500.00** that will include the purchase of one unit compactor, equipment, tools, gears, materials, and training cost.

Counterpart Funding Schedule

| Item | DBM | Local Government Units | | | Total |
|----------------------------------|---------------|------------------------|--------------|----------|------------|
| | | Province | Municipality | Barangay | |
| Purchase of one unit compactor | P5,000,000.00 | | | | P5,000,000 |
| Training materials and equipment | | P20,000 | P47,500 | P12,000 | P77,500 |

PREPARED BY:

MA. MERCEDES E. SALINAS
MPDC

APPROVED:

LUCIANO A. BONGALOS
Municipal Mayor