

Republic of the Philippines
Province of Bohol
Municipality of Albuquerque

COMPREHENSIVE PROJECT PROFILE

1. PROJECT TITLE: Enhancing Agricultural Resources Towards Human Development (EARTH Development Project)

2. BACKGROUND AND RATIONALE

Albuquerque is located in the eastern part of Bohol, one of the 30 coastal towns in the province. It is twelve (12) kilometers from the City of Tagbilaran with a total land area of 2,865 hectares. As of 2000 census, it has a total population of 8,715 inhabitants with 1,670 total number of households. The town has eleven barangays, five (5) of which are inland and the remaining six (6) are in the coastal area. The municipality belongs to the 5th class in terms of income.

Area allocated for agriculture as per Comprehensive Land Use Plan of the Municipality is 2,511.39 hectares or 87.65 % of the total land area. However, only 571.5 hectares is planted to various crops to wit:

1. Rice	78.5 hectares
2. Corn	100.0
3. Rootcrops	10.0
5. Coconut	365.0
6. Fruit trees	14.0
8. Vegetables	4.0

TOTAL	571.5 hectares

The rest of the areas has been classified for built-up/residential purposes, 216.52 hectares; timberland, 15 hectares; mining, 44.30 hectares; roads, 72.79 hectares and landfill site, 5 hectares.

Type of Soil

Bolinao clay dominates in barangay Tagbuane and portion of barangay Sta. Felomina. While in barangays Bahi, San Agustin, West Poblacion, East Poblacion, Ponong and Toril is Faraon Clay, and Lugo Clay in barangays Basacdacu, Cantiguib, and Dangay.

Poverty Profile

The Municipal Poverty Database indicates high poverty incidence particularly in the areas of food threshold, malnutrition, income threshold, school dropouts and unemployment. It is noted that contributing factors like low farm productivity, lack of livelihood skills, absence of livelihood facilities and the worsening attitude of people towards work are identified causes of the increasing number of families living below the poverty threshold. This scenario creates people's high dependency on government services that are grossly limited.

Majority of the population have reached only elementary grades attributing to lack of skills and high unemployment rate. Women accounts for almost 49% of the population with the employed as working professionals, while the rest are part-timers, unemployed and full-time housewives.

The project will target five (5) depressed barangays in the Municipality, namely: Dangay, Cantiguib, Ponong, Toril, East Poblacion and Basacdacu with a total of 445 number of households below income threshold. The ranking of these barangays as to income threshold is based on the 2004 LPRAP survey to wit:

- 1) Dangay : 118 households
- 2) Cantiguib : 76 households
- 3) Ponong : 98 households
- 4) Toril : 77 households
- 5) Basacdacu : 76 households

This situation calls for a sustainable agri-based income-generating opportunities for poor farming families. The promotion of natural farming methods using indigenous feeds and organic fertilizer has been practiced in some areas of the province. The implementation is gradually phasing down the use of commercial fertilizer and animal feeds, which contributed much damage to the environment and to people's health as well. The following income-generating initiatives are considered in this proposal:

- 1) Backyard gardening – Each family should have their respective organic gardens in their own backyard planted to various kinds of vegetables. This would be their own source of organic foods and some maybe sold to the market and in their neighborhood. This is a productive activity of the housewives, rather than spending some of their time in unhealthy and unwholesome activities. The organic fertilizer maybe produced by them or be bought from the Community Composting Center.
- 2) Backyard animal raising – This is a complementary activity to backyard gardening, also making use of organic feeds which most of the households were using long time ago. The family is expected to earn additional income from this endeavor. Most common backyard animal raising is the piggery.
- 3) Production of organic fertilizer from bio-wastes - This a community composting facility which would be managed and operated by a People's Organization. Bio-wastes collected from the market, schools, stores, eateries, shops, and households will be brought to the composting center for processing into organic fertilizer. The fertilizer will be sold to the local farmers and households raising vegetables and fruit trees. Some will be sold outside of the municipality depending on the volume of production.
- 4) Improvement of the Material Recovery Facility – this can be a trading center for recyclable and reusable waste materials. This is currently managed and operated by a group of mothers who belongs to the poorest among the poor in the Poblacion area. They collect the recyclable and reusable wastes from the households, schools, municipal building and other establishments. They are provided by the municipal government one unit trisikad and weighing scales and they are linked to a junk buyer in Tagbilaran City.

3. PROJECT OBJECTIVES:

This project responded to the call of the President of the Philippines to provide employment opportunities to the depressed families, likewise increasing their income and ultimately giving them the privilege of enjoying the comfort in life. It also responded to the national program of protecting and preserving the environment for the next generations, as this is a complementary project to proper management of solid wastes.

Goal:

After three (3) years, project families will have evolved into a learning and helping communities with sustained income, food and farming within an improved agro-eco system.

Objectives:

1. By end of the project, 85% or 378 participating families will have 35% (or P77,481.76 from P 57,393.90 per household per year) increase in income from crops, composting of bio-degradable wastes, wastes recycling and other Income Generation Activities (IGA). The average household size is six (6);
2. By end of the project, 95% or 422 of the participating families will have increased consumption of variety of foods;
3. By end of the project, solidarity and sustainability of communities are enhanced;
4. By end of the project, 100% of participating families will have adapted practices on care for the environment;

4. PROJECT COMPONENTS/ACTIVITIES

This project would require partnership with other sectors of the society such as youth, women, teachers, businessmen, farmers, fishermen and the local government units, both at the municipal and barangay levels. The project activities are split into the following components :

1. Livestock Dispersal

Target beneficiaries will be given one livestock each under their care. The beneficiaries will be responsible of the livestock. They will enter into a memorandum of agreement with the municipal government stipulating conditions regarding their responsibilities and obligations being one of the recipients of the livestock.

2. Organic Gardening and Farming

While waiting for the livestock to generate income for the family, the beneficiaries will be encouraged to engage themselves in organic gardening and farming as their alternative source of livelihood. They will be trained on organic bio-intensive gardening and organic fertilizer production. There will be an organic plant nursery to be constructed within the compound of the Composting center.

3. Production of Organic Fertilizer

As complimentary project to livestock raising/dispersal and farming/gardening, the Municipal Government will establish a Composting Center for production of organic fertilizer to be sold out to the farmers. The center will be equipped with mechanical shredder, composting bins, vermiculture materials, etc. This will be part of the Material Recovery Facility partially implemented by the Municipal Government.

5. INPUT REQUIREMENT

Input requirement for this type of project is minimal compared to other project of the LGU. For human resource requirement, the Municipal Agriculture Office has three personnel manning the agriculture related projects of the LGU. One of them is concentrated on livestock project. There is no need to hire additional manpower to handle this project because they can tap the members of the BALA as their partner.

Staff or personnel from the Provincial Veterinarian's Office and Provincial Agriculture Office can be tapped as Resource Speakers whenever trainings, seminars and workshops will be conducted in connection with the implementation of the project.

Office equipment are already in place, however, veterinary supplies and medicines and artificial insemination supplies could not be shouldered alone by the Local Government Unit.

For the production of organic fertilizer, acquisition of mechanical shredder is very important, along with the construction of a shed for the machine, vermin and compost.

Funds for the construction of organic plant nursery is from the provincial government. Purchase of planting materials for forage and pasture development also needs funds.

Cost of office and training supplies will be shared among the provincial, municipal and barangay government.

Acquisition of livestock and freight expenses will be shouldered by the donor agency. Annual livestock insurance will be the beneficiaries' counterpart.

6. IMPLEMENTATION SCHEDULE

The project will commence on January 2007 and will run for one and half years. Its sustainability will depend on the commitment of the stakeholders.

ACTIVITIES	CY 2007				CY 2008	
	Q1	Q2	Q3	Q4	Q1	Q2
1. Creation of Project Management Team						
2. Meeting with barangay officials of target 6 barangays						
3. Screening of beneficiaries						
4. Preparation of project documents						
5. Orientation/Training of project beneficiaries						
6. Purchase/delivery of livestock						
7. Distribution of livestock						
8. Acquisition of mechanical shredder						
9. Construction of Organic Plant Nursery						
10. Construction of Vermin sheds						
11. Monitoring of projects						

7. EXPECTED OUTPUTS

The expected output of this project is to witness a peaceful, harmonious and empowered community with families having increased income derived from crops, livestock and other income generation activities, which enable them to provide their own basic needs like three full nutritious meals a day, clean and safe potable water, education for their children, and health care. The following are the key result areas:

A) Livestock Dispersal

QUAN-TITY	ITEM	COST /UNIT	TOTAL COST
25	Livestock dispersed to the first 25 poor families of the 5 barangays with cost of freight	P20,000.00	P 500,000.00
25	Recipient poor families provided livestock		
25	Project families given the repayment livestock from the original 25 recipients		
50	Families undergone training on animal health care and management, animal health breeding and value orientation/workshop	P 300.00	P15,000.00
50	Animal shed house constructed	P2,000.00	P100,000.00
70	Barangay Officials undergone orientation on the project	P150.00	P10,500.00

B) Organic Gardening and Farming

QUAN-TITY	ITEM	COST/UNIT	TOTAL COST
3	Organic Plant Nursery	P50,000.00	P150,000.00
6	Nursery Caretakers trained	P500.00	P3,000.00
3	Sets of Garden Tools purchased	P5,000.00	P15,000.00
50	Farmers trained on organic gardening and farming	P300.00	P15,000.00

C) Production of Organic Fertilizer

QUAN-TITY	ITEM	COST/UNIT	TOTAL COST
2	Mechanical Shredders Acquired	P200,000.00	P400,000.00
2	Shredder shed house constructed	P20,000.00	P40,000.00
4	Shredder operators trained	P500,000.00	P2,000.00
2	Vermin shed house constructed (includes tubs for compost and vermin)	P75,000.00	P150,000.00

8. PROJECT BENEFICIARIES

The first twenty-five (25) direct beneficiaries of this project shall be carefully selected based on the Local Poverty Reduction Action Plan (LRAP) survey result. On-site inspection of these families shall be conducted by the Project Management Team to ensure that they are really qualified and can ably sustain the project. Background investigation on the beneficiaries may also be done to determine their character and qualities as persons.

Initial ten (10) families will be taken from each of the five (5) barangays. They will undergo strict screening basing on the criteria that would be formulated by the Project Management Team. Only five (5) families will become the first batch of recipients.

9. IMPLEMENTATION ARRANGEMENT

A) The lead implementing agency or office for this project is the Municipal Agriculture Office (MAO) with technical support from the Office of the Provincial Veterinarian (OPV) and Office of the Provincial Agriculture (OPA). Creation of a Project Management Team is necessary to ensure support from other offices of the Local Government Unit.

The Project Management Team (PMT) shall be composed of the following:

Chairman	: Municipal Agricultural Officer
Co-Chair	: SB Chair on Agriculture
Members	: Agricultural Technician in-charge of livestock Municipal Planning and Development Coordinator ABC President Representatives from the OPV and OPA

Pool of trainers and facilitators for trainings, workshops and seminars to be conducted will be sourced out from the provincial level. It may be taken from the members of the Project management Team.

B) Project Participants

The project will cover five (5) poverty-stricken barangays in the municipality namely: Dangay, Cantiguib, Basacdacu, Ponong and Toril and shall be implemented through PO or Peoples' Organization as partner.

The P.O. identified to partner with the Local Government Unit in this project is the Barangay Livestock Aide or BALA. This organization was organized in March 7, 2001 with 29 members that regularly meet every first Wednesday of the month. They are registered with the Department of Labor and Employment. The members of this organization had undergone trainings like Animal Health Management and Livestock Production. They are nurtured by the Office of the Municipal Agriculture personnel. Their income generating activities are "paluwagan" and "roll-over scheme" of deworming supplies. This is assisted by the provincial government.

C) Project Commodities

The project shall provide the following interventions to address the immediate needs of participating families:

1. Livestock

Qualified families or groups will receive livestock either carabao, goat, pig and chicken depending on their needs and preferences subject to the approval of the Management Team. For each participating PO, only ten (10) families will receive the original animals which shall be distributed according to the needs and area suitability of the organization. The original five (5) POs shall receive a total of 30 carabaos, 62 goats, 5 ready-to breed pigs, and 150 native chickens. Repayment animals shall be given to the next qualified recipients. Procurement guidelines for livestock shall be formulated by the PMT indicating therein the criteria of animal selection and standard pricing which shall be determined by the Project.

D) Technical Services

To ensure productivity of project animals, the following technical services shall be provided:

Breeding Services

Artificial insemination (AI) will be adopted as a means of impregnating project carabaos, goats, and swine. However, natural breeding can be opted using accredited bull, buck and boar of the barangay certified by the PMT.

Animal Health Services

The following basic animal health management shall be conducted in all projects areas:

- Regular vaccination shall be conducted for all carabaos, goats, pigs and chickens
- Regular deworming
- Vitamin supplementation when necessary

E) Training Education

Organization Trainings

1. VBPM/Diagnostics Training and Farm Planning

A 3-day workshop that aims to develop community plan and individual farm plans using the Value-Based Planning Model. Participants include all project families. Training will be held on first and second year. The PMT with OPV will facilitate the training.

2. Effective Management of Fund and Savings Scheme

A two-day workshop on savings, simple bookkeeping and financial reporting. The participants include the group leaders in-charge. Trainings will be held on the first and second year.

Technical Services

1. Animal Health Breeding and Nutrition Improvement (AHBNIT) Training

A two-day training on animal health, breeding and nutrition improvement. All project families, who will be recipient of animals will undergo this training. Trainings will be held on the first and second year. The Municipal Agriculture Office with OPV will facilitate the training.

2. Organic Gardening

A one-day basic training on backyard vegetables and herbal production utilizing animal manure and other farm by-products will be conducted. All participating families will undergo this training, which will be conducted and facilitated by the municipal government staff with support from OPA and ATI.

3. Production of organic fertilizer

Three days training on the production of organic fertilizer will be conducted for the _____workers of the composting center.

F) Income Generating Activities (IGA)

All project partners who have established a savings group may avail a maximum of Php 20,000.00 for without interest. Project groups who will engage in re-lending the GA funds to project participants may charge minimal interest as agreed upon by the group. IGA funds may be used for the following types of activities i.e. meat processing, balut making, native handicrafts, fish processing, etc. The IGA fund will be passed on to other groups within two equal payments without interest.

G) Other Agricultural Inputs and Supplies

Seeds, seedlings
Drugs and biologics
Planting materials for forage and pasture development
Garden tools
Vermi composting materials

H) Repayment Scheme

The following scheme shall be observed:

Livestock

For every animal received, the recipient will give back one offspring of the same age which must be in good condition to the next qualified recipient family.

Agricultural supplies

For agricultural inputs and supplies such as seeds, planting materials, seedlings, etc., the recipients will give back the same quantity.

IGA revolving fund

Revolving fund will be made available to qualified participating groups through the facilitation of the Project Management Team and the donor groups.

Knowledge and Skills Values

Participating families will pass on knowledge, skills and values acquired from the project to the next in-line recipient or other members of the group. It maybe in the form of group training, mentoring and/or coaching.

I) Organization and Management

The Local Government Unit (LGU) shall create a Project Management Team who shall oversee project implementation. It shall be composed of the Municipal Mayor as Chairman, the Municipal Agricultural Officer, Municipal Planning and Development Coordinator And Livestock Technician as members.

The management team shall have the following duties and responsibilities:

- a. Oversee the implementation of the project
- b. Prepare work and financial plan
- c. Render project status/progress reports
- d. Establish network with other agencies
- e. Have direct supervision over the operation staff
- f. Recommend policies and guidelines for project implementation
- g. Facilitate the conduct of project reviews and planning, and
- h. Validate and approve applications of POs as project partners

J) Project Monitoring and Evaluation

The Project shall be monitored and evaluated in three levels; Peoples' Organizations (POs), municipal and provincial levels and shall be done based on animal status, farm management and organization development.

10. ESTIMATED BUDGETARY REQUIREMENT (2 years)

A cost sharing scheme shall be adopted by the project. The Municipal LGU and the PO partners shall provide matching fund to the amount that shall be provided by the funding partner. A 90-10 sharing as stipulated in the guidelines for the availment of financial assistance under the NEDA-Productivity Enhancement Program (PEP).

ITEM	NEDA (P)	LOCAL GOVERNMENT UNIT (P)			BENEFICIARIES (P)
		Province	Municipal	Barangay	
Livestock and freight	P 500,000.00				
Veterinary supplies		10,000.00	20,000.00		
AI supplies		20,000.00	10,000.00	5,000.00	
Trainings		60,000.00	20,000.00	10,000.00	
Technical Services personnel		10,000.00	100,000.00		
2 Mechanical					

Shredders	400,000.00				
2 Shredder shed houses			40,000.00		
2 Vermin shed houses			150,000.00		
Livestock Insurance					25,000.00 (50 livestock)
Animal shed house					100,000.00 (50 shedhouses)
Office supplies			5,000.00		
Monitoring and evaluation			5,000.00	5,000.00	
TOTAL	900,000.00	100,000.00	350,000.00	20,000.00	125,000.00

11. Project Logical Framework (Please see attached sheets)

Project (Impact) Goal	After two years, project families will have evolved into a learning and helping communities with sustained intake of food, and farming within an improved agro-eco system.		
Plan Detail	Indicators	Means of Verification	Assumptions
<p>Objective #1 By the end of the project, 85% of participating families will have 35% increase in income from livestock, crops and other Income Generation Activities (IGAs).</p>	<p>1.1 Income From Livestock, Livestock By-Products And Services 1.2 Income Derived From IGA 1.3 Sales From crops. 1.4 No. of families with increased income.</p>	<p>1. Family interviews 2. Focus Group Discussion (FGD) 3. Review of records and baseline data</p>	<p>1. The market price does fluctuate dramatically. 2. Timely availability of stocks. 3. No serious animal epidemic.</p>
<p>Outputs</p> <p>1. Livestock, seeds planting materials, and other inputs provided to participating families.</p> <p>2. IGA revolving fund operational</p> <p>3. Trainings conducted to project participants</p> <p>4. Animal health services provided to farm families</p>	<p>1.1. No. and types of livestock distributed 1.2. Quantity and kind of seeds and other inputs provided 1.3. No. of families who received livestock, seeds and planting materials. 2.1. No. of families engaged in other IGAs 2.2. IGA Repayment rate 3.1. No. and types of training and no. of participants. 4.1. No. of families that availed of animal services (i.e. deworming, vaccination, castration, insemination, treatment)</p>	<p>1. Records review and field verification 2. Inventory</p>	<p>1. Timely availability of stocks. 2. No serious animal epidemic</p>

Project (Impact) Goal	After two years, project families will have evolved into a learning and helping communities with sustained intake food, and farming within an improved agro-eco system.		
Plan Detail	Indicators	Means of Verification	Assumptions
<u>Activities</u> 1. Livestock distribution 2. IGA operation 3. Distribution of seeds and planting materials for crop production 4. Trainings on: Animal Health, Breeding and Nutrition Improvement Training (AHBNIT), Crop production, Farm planning, Effective Management of Funds, IGA Training 5. Provision of animal livestock services: Artificial Insemination (AI) for large & small animals; Vaccination & deworming; Fecal Sampling; 6. Establishment of market connection and linkages.			
<u>Inputs</u> 1. Livestock such as: carabao, cattle, goats, poultry and pigs 2. Communication and transport facilities 3. Funds 4. Human resources			

Project (Impact) Goal	After two years, project families will have evolved into a learning and helping communities with sustained intake food, and farming within an improved agro-eco system.		
Plan Detail	Indicators	Means of Verification	Assumptions
Objective # 2 By the end of project, 95% of participating families will have increased consumption of variety of food.	2.1. % increase in consumption of variety of food, such as cereals, vegetables, meat, egg and fish 2.2. % reduction in malnutrition related illnesses among families	Interviews with families Review of reports and minutes of meetings FGD	No major calamities & epidemic
Outputs Trainings are conducted to project families. Organic food & herbal gardens established by participating families Native chicken/ducks for egg production provided to participating families	1.1. No. of families with organic food garden. 2.1. No. of trainings of food garden and No. of participants. 2.2. No. of seminars conducted on basic nutrition and health raising 3.1. No. of families raising chickens/ducks for meat and eggs	Interviews with families Reviews of reports and minutes of meetings Meetings with Pos Project reviews / assessment	
Activities Conduct of training on vegetable & herbal gardening Conduct seminar on basic nutrition, good agricultural practices & food safety Distribution of seeds and supplies. Establishing of vegetable & herbal gardens by families Provision of native chickens for egg production			
Inputs Training module Training logistics Agricultural supplies, seeds, chicken, ducks			

Project (Impact) Goal	After two years, project families will have evolved into a learning and helping communities with sustained intake food, and farming within an improved agro-eco system.		
Plan Detail	Indicators	Means of Verification	Assumptions
Objective # 3 By the end of the project solidarity and sustainability of communities are enhanced.	3.1. Number of groups and participants practicing POG. 3.2. No. of animals and resources passed-on 3.3. Higher participation of members in group meetings 3.4. Higher participation of women in project activities and leadership 3.5. Number of groups with savings established	Review of documents, reports, minutes Interviews with families Review of submitted reports FGD Review and analysis of results	Members willingness to accept the cornerstone
Outputs Trainings conducted Meetings/dialogue conducted regularly Gender Workshops conducted Functional committees	1. Number of cornerstone trainings and No. of participants 2. Number of PSRP conducted 3. Number of regular meetings/ dialogue conducted 4. No. of gender workshops conducted and number of participants. 5. No. of functional committees formed	Review of documents, reports, minutes Interviews with families Review of submitted reports FGD	
Activities Conduct training of trainers Conduct trainings on: <ul style="list-style-type: none"> - HPI cornerstone - PSRP - Value-based planning & management - Organizational mgt. skills training (OMST). Record keeping Handling meetings Simple bookkeeping Effective communication & linking <ul style="list-style-type: none"> - Saving scheme Exchange visits Conduct regular meetings & dialogues with PO's Home visitations Conduct of gender workshops Formation of committees			

Plan Detail	Indicators	Means of Verification	Assumptions
<p>Objective # 4 By the end of the project. 100% of participating families will have adapted practices on care for the environment.</p>	<p>4.1. No. of families utilizing organic fertilizer/ manure for crop production 4.2. No. of families establishing forage & pasture & area covered 4.3. No. of families adopting garbage segregation, recycling and composting. 4.4. No. & type of trees planted by participating families</p>	<p>Review of reports Field verification Interview with communities</p>	
<p>Outputs Nurseries/ seed bank established at project level Forest & fruit trees distributed Forest & orchard farm established by participating families Forage & pasture areas established by participating families Trainings & seminars conducted: Contour farming, Organic farming, Vermi-composting Natural Farming Systems Technologies (NFTS), Environment Management Systems (EMS) Sustainable and appropriate farm technologies and environment practices adopted</p>	<p>1. No. of nurseries established and area developed 2. No. and kind of forest & fruit trees distributed & planted 3. Area developed for forage & pasture (has.) 4. No. and type of trainings and seminars conducted.</p>	<p>Review of reports Field verification Interview with communities</p>	
<p>Activities Establish nurseries/seed bank for agro-forest trees, forage & pastures Distribution of forest & fruit trees Forest & orchard farming by participating families Development of forage & pasture areas by participating families Conduct of trainings & seminars: Contour farming, Organic farming, Vermi-composting</p>			
<p>Inputs Training Modules Resource persons Training logistics Funds</p>			

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