



## MEMORANDUM

FOR : All Regional Directors

ATT'N : All Provincial Environment and Natural Resources Officers  
All Community Environment and Natural Resources Officers

FROM : The Director

SUBJECT : **FMB TECHNICAL BULLETIN NO. 9 - FIELD GUIDE ON  
THE CONDUCT OF BENCHMARKING AND IMPACT  
ASSESSMENT OF CBFM – CARP PROJECTS**

DATE :

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### I. The Technical Bulletin

This technical bulletin provides a guide on the conduct of benchmarking and impact assessment. The tool was developed by Ecosystems Research and Development Bureau (ERDB) in collaboration with the Forest Management Bureau (FMB) and the Field Offices of the DENR, initially for Community-Based Forest Management – Community Agrarian Reform Program (CBFM – CARP) projects. It intends to help field users establish baseline data at the start of the project as well as to determine the socio-economic impact of CBFM–CARP Projects to its beneficiaries and the bio-physical environment of the CBFM 3-5 years and thereafter on regular time series.

### II. Users of the Benchmarking and Impact Assessment Tool

The users of the tool are personnel of the DENR, forest communities and other stakeholders who are primarily involved in socio-economic and environmental study (SEES) or profiling of the communities in the uplands. It is also applicable to other DENR programs such as the National Greening Program (NGP), DENR/Japan International Cooperation Agency (JICA) - Forestland Management Project (FMP), and other Community-Based Forest Management initiatives.

### III. Benchmarking and its Importance

Benchmarking is the process of comparing the performance of a project to some kind of objective standard<sup>1</sup>. For CBFM – CARP, benchmarking is an important tool to have baseline information which can be used as basis of comparison to the project's outcomes or

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<sup>1</sup><http://www.wordconstructions.com/articles/business/benchmarking.html>

results five (5) years after the intervention. The information gathered from benchmarking can be used to identify gaps and setbacks in order to improve the project and achieve its objectives<sup>2</sup>.

#### **IV. Impact Assessment and its Importance**

Impact Assessment is a tool for assessing the impacts on the social and economic aspects of the lives of the farmers and on their environment. It helps in outlining the advantages and disadvantages of activities undertaken and examines possible synergies and trade-offs in the overall project implementation<sup>3</sup>. As a structured process in considering project's implications, impact assessment also provides opportunity to modify a particular undertaking. Such opportunity can be applied at all levels of project implementation and in related decision-making processes<sup>4</sup>.

#### **V. Purpose and Objectives of the Benchmarking and Impact Assessment**

The purpose and main objective of the benchmarking and impact assessment study is to assess the changes that occur socially, economically and environmentally brought about by CBFM – CARP projects to the lives of CBFM peoples organizations after five years of implementation. It will determine the factors that may have influenced the impact hence, it is crucial that baseline information on social, economic and environmental condition of the area be gathered at the onset of the project.

#### **VI. Guide on the Conduct of Benchmarking and Impact Assessment of CBFM-CARP Projects<sup>5</sup>**

Two (2) sets of questionnaire were prepared for the purpose consisting of Interview Schedule for the socio-economic component (Set A) and Guide questions for environmental or bio-physical component (Set B). Set A Interview Schedule should be administered through personal or face-to-face interview while Set B will make use of key informant interview, focus group discussions and secondary data gathering.

#### **SET A – INTERVIEW SCHEDULE FOR SOCIO-ECONOMIC ASSESSMENT**

This part of the field guide is divided into 3 major parts to include: (1) choosing the respondents; (2) collecting the data; and (3) important reminders in conducting socio-economic survey.

##### **A. Choosing the Respondents**

1. **Determine the target population.** Identify the target population which is a group or set of units that will be surveyed. For the benchmarking and impact assessment study, the target population is the set of households who are beneficiaries of the CBFM-CARP project. To qualify as respondents, they should be legitimate residents of the area and recipients of the CBFM-CARP project.

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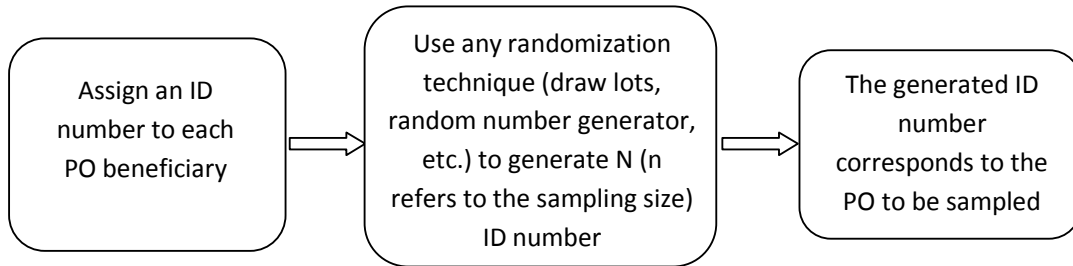
<sup>2</sup><http://www.isixsigma.com/methodology/benchmarking/understanding-purpose-and-use-benchmarking/>

<sup>3</sup>[http://ec.europa.eu/governance/impact/index\\_en.htm](http://ec.europa.eu/governance/impact/index_en.htm)

<sup>4</sup><http://www.iaia.org/iaia/wiki/impactassessment.aspx>

<sup>5</sup> Adapted from "Establishing Benchmark for the National Greening Program: A Field Guide", prepared by ERDB-NGP (2013).

2. **Construct the sampling frame.** A sampling frame is a set of information in the form of lists, directories, or maps which includes the population of interest where a sample is drawn. The sampling frame for this socio-economic survey should consist of a list of all beneficiary-members of a randomly selected People’s Organization (PO) that was engaged by the DENR to implement CBFM-CARP Project.
3. **Choose the appropriate sampling design and sample size.** Use Simple Random Sampling (SRS) to draw representative samples from the identified list of PO beneficiaries. In conducting SRS, apply the following general procedures.



4. **Compute the appropriate sample size.** In determining the appropriate number of samples, use Slovin’s formula to calculate the sample size. This statistical formula is very convenient to use especially when the distribution of data is not known. It allows one to sample the population with a desired level of precision. The formula is given below:

$n = \frac{N}{1 + (e)^2}$	Where $n$ is the sample size, $N$ is the population size, and $e$ is the level of precision ( $e=0.05$ )
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To illustrate, suppose there are 464 households ( $N=464$ ) which are beneficiary members of CBFM - CARP of a selected People’s Organization. To compute the appropriate sample size, substitute the values ( $N=464$ ,  $e=0.05$ ) in the Slovin’s Formula. [Note: *The benchmarking survey will employ a household type of survey. Most likely the lists that can be provided by the respective PO Presidents are those lists of all members of the PO. Members of the same household should be considered as one (1) household*].

$n = \frac{464}{1 + N (e)^2}$	$n = \frac{464}{1+464 (0.05)^2}$
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$n = \frac{464}{1 + 464 (0.0025)}$	$n = \frac{464}{1+1.16}$	$n = \frac{464}{2.16}$
$n = 214$		

If the total population of the PO beneficiaries/members are equal or less than 100, all members beneficiaries of the People's Organization should be considered in the survey as respondents.

## **B. Collecting the Data**

To get the data needed for socio-economic component, personal or face-to-face interview shall be used using the Set A INTERVIEW SCHEDULE (Please see Annex A). This interview schedule is composed of three (3) parts:

### **Part 1. Information about the Respondent**

This provides information about the profile of the respondents that includes his/her name, age, gender, highest educational attainment, civil status, religion and ethnic orientation.

### **Part 2.Social Impact**

This part provides information on household composition, sources of income and affiliation to organizations/associations in the community. It is subdivided into the following sub-sections:

- a. Household composition
- b. Changes/Improvement in the Household/Family
- c. Changes/Improvement in the Community
- d. Organization/Associations in the community
- e. Financial/credit sources in the community
- f. Development programs implemented in the Community
- g. Other social data

### **Part 3. Economic Impact**

This section seeks information about economic condition of each household and it is subdivided into two parts:

- a. Estimated annual income
- b. Farm size and percentage of farm area allocated for specific use
- c. Percentage of farm produce consumed domestically and sold to the market
- d. Farming systems and corresponding net income
- e. Anticipated income from forest product resources
- f. Annual family expenditures and savings
- g. Presence of pest attack and extent of damage

## **C. General Instructions**

Below are the general instructions in accomplishing the interview schedule:

1. The interview schedule is designed in such a way that predetermined answers for each questions are already provided to facilitate the interview process. In cases where

the answer to a certain question is not listed, the enumerators are advised to specify the answer by writing it in the space provided.

2. Accomplish all the questions in the interview schedule by: a) encircling the appropriate answer to a given question, b) filling-up the boxes with corresponding numerical digit for questions such as monetary values, measurements of land or houses and number of individuals of interest, and c) providing the correct numerical code for qualitative question such as 1 for Yes and 2 for No.
3. Refer to the grey boxes at the left portion of the interview schedule when answering questions where possible answers are already categorized.
4. When applicable, take note of the remarks for the changes that occur from base year and five years after for each of the question. Reason(s) for change must be provided on the remark column using the appropriate box at the left portion of the interview schedule.
5. Write the answers legibly and avoid unnecessary markings in the interview schedule.
6. It is important to accomplish the interview schedule completely. Never leave blanks if possible. If question is NOT APPLICABLE to the respondents, simply mark N/A in the space provided.

*NOTE: Answers for boxes on five years after will only be accomplished when undertaking the impact assessment already. Otherwise, if establishing benchmark data only, leave this blank.*

#### **D. Important reminders in conducting socio-economic survey**

##### **When Entering the Community**

A brief and straightforward introduction letter is important before an interviewer or field enumerators conduct interviews. This will serve as a tool to show courtesy and respect to the community and the target respondents. Aside from the introduction letter, courtesy call with community official and authorities must also be done first. It is important to explain to local officials the reason for the survey and steps to be undertaken to avoid confusion or any conflict in the course of the field surveys.

##### **Basic Qualifications of Field Enumerator**

Field enumerators should be at least high school graduate and speak the language of the community. Since priority respondents are heads of the families (age ranged from 30-50 years old), it is preferred that enumerators' age is of the same age range. In addition, it is advisable to have both male and female enumerators. There are respondents who are more comfortable when interviewed by a person of the same sex and some who prefer being interviewed by the opposite sex.

##### **Roles and Responsibilities of Field Supervisors and Field Enumerators**

Field supervisors must be well respected and knowledgeable of their tasks and of the purpose of benchmarking and impact assessment. To be able to effectively train and guide enumerators, field supervisors must be able to perform the following:

1. Help the enumerators understand their responsibilities and ensure that they have necessary knowledge and skill to carry out the benchmarking and impact assessment study;
2. Understand the interview schedule well and other data gathering techniques that could be used;
3. Ensure that enumerators are equipped with all the necessary supplies and materials they need in the field survey including the introductory letter and identification card;
4. Coordinates the team's logistical requirements;
5. Lead the team in conducting the surveys with the selected respondents and as much as possible avoid the use of replacement respondents;
6. Facilitate the coordination and courtesy call with concerned organizations and individuals;
7. Observe enumerators actual interviews to ensure consistency and quality throughout the survey;
8. Train enumerators on how to deal with refusals and help those who are having difficulties in interviewing; and
9. Review the completed surveys and meet with enumerators at the end of each day to resolve any questions or problems.

On the other hand, the field enumerators' should observe the following roles and responsibilities:

1. Understand the interview schedule thoroughly. This could be achieved by conducting levelling-off workshop wherein individual items or questions in the interview schedule is explained by the facilitator or field supervisor;
2. Conduct the survey only among selected or identified PO-member respondents and according to approved survey procedures;
3. Make every effort to avoid refusals;
4. Inform supervisors whenever a question to a problem arises;
5. Meet with field supervisor daily to review day's work; and
6. Dress properly.

## **SET B – GUIDE QUESTIONS FOR ENVIRONMENTAL ASSESSMENT**

Considering the limitations on resources (e.g. expertise, time, etc.), the method that will be utilized to collect data for environmental component of the study would be through the use of key Informant interview (KII) and secondary data gathering techniques. Collection of relevant information should be done prior to field surveys. It is recommended that maps (e.g. soil, topographical, land use, geological) of the CBFM-CARP site be secured to easily locate and assess some of the natural resources in the area. Some of the environmental data (e.g. climate data) may be secured from appropriate agencies like PAGASA. Others (e.g. ecological profile) can be sourced from secondary data and literature where similar studies/ investigations were undertaken.

Using Set B Guide question (please see Annex B), field supervisor could serve as the enumerator that will interview the key informants. Below are the data sets that should be gathered to have baseline data and assess the impact of the CBFM-CARP project.

## **Data sets for environmental component**

### **Part I. Physical Resources**

Physical resource component refers to the soil and water attributes of the landscape. Assessment of the resource could help determine the stability, nutrient cycling and hydrological function of the said area. This section should generate the following data and information:

**a. Climate data**

Climatic data are important parameters that affect soil and water resources. Data to be gathered include climatic type, average temperature, average annual rainfall, rainy months and prevailing wind directions.

**b. Geologic Features**

This includes landforms found in the area such as volcano, springs, rock formation (karst, limestone), caves and others.

**c. Water Resources**

Sources of water within the area include those coming from springs, streams, rivers, ponds, lakes and others. This is where the community usually get the raw water for domestic, agriculture, and other productive uses.

**d. Soil Properties**

Though soil properties are governed by its physical, chemical, and microbiological characteristics, for this study only the general condition of the soil shall be looked at to include soil type, fertility, level of susceptibility to erosion/landslide, and acidity.

### **Part II. Biological Resources**

Through the use of a survey instrument, knowledgeable local communities may be interviewed on the existing flora and fauna found in the area, as well as an estimate of its population and/or abundance. The following data and information should be generated:

**a. Land cover and land use**

This is the percent distribution or extent of land cover/land use in the area which includes grassland, shrubland, upland/agroforestry farms/ cultivated areas; built-up areas, open or unvegetated land, forest (natural and plantation) and others.

**b. Flora**

This section will provide information on the extent of distribution of grasses, shrubs, forest trees and fruit trees in the entire CBFM area:

**c. Fauna**

This section will generate information on the extent of distribution of different faunal species mammals, birds and fowl, amphibians and reptiles, rodents and shrews and fishes (found in river, lakes and ponds) in the entire CBFM area:

**Filling up the data forms**

1. Just like the socio-economic component, instructions on how to answer the questions are already provided to facilitate the interview process.
2. Accomplish all the questions in the interview guide. Fill-up the boxes with corresponding numerical code assigned for a specific answer or for question requiring a Yes (1) and No (2) answer.
3. For questions that require answer on whether there is a change (decrease or increase) that occur between the base year and five years after, put a check for the corresponding answer.
4. Take note of the remarks for the changes that occur from base year and five years after for each of the question. Reason for change must be answered on the remark column using the appropriate box at the left portion of the interview schedule.
5. Write the answers legibly and avoid unnecessary markings in the interview schedule.
6. It is important to completely accomplish the interview schedule. Never leave blanks if possible. If question is NOT APPLICABLE to the respondents, simply mark N/A in the space provided.

**A. Key Informant Interview (KII)**

A key informant is an individual who has been selected to speak about a certain topic because of their knowledge and credibility. With their help the interviewer will have detailed and interpreted knowledge which other respondents may or cannot provide. The interviewer must consult with the authorities of the community on who can be selected as key informants. Usually, they are chosen based on their experiences and expertise.

After selecting the key informants (KIs), interviews may proceed using guide questions to make sure that information collected from all KIs are the same. They must also identify the information to be collected and keep track of what was said by the KI. Interviewer may also ask the informant to recommend other informants to be interviewed.

**B. Secondary data gathering**

As part of the usual triangulation approach, secondary data gathering could also be done to have initial information on the bio-physical resources of the area being studied. This is especially true when primary data collection is impossible or too costly and time consuming to undertake. Examples of sources of secondary data include those gathered and presented by other researchers and/or other organizations such as government units and private institutions.



## **VII. Data Analysis and Interpretation**

The study shall apply the Pre – and Post – Test (PPT) method, or the before-and-after technique in data analysis.

This method generally answers the question “What changed from the beginning of the project to five years after?” It can measure the project outcomes, impact, and demonstrate its success. It can act as thermostat and provide sound feedback to decide whether or not to make changes in a particular project or decide to terminate it.

One common statistical test to be used is the t-test. It will determine if the average or means of two project outcomes/impacts are statistically different from each other<sup>6</sup>.

## **VIII. Report Writing**

Report writing shall be conducted after all data were gathered and analysed. This is to provide a complete description of the methodology and results of the benchmarking and impact assessment. For a systematic procedure, individual reports shall be collected for compilation of the regional reports. In order to come up with a full report, a consolidated national report shall be made from the reports submitted by the regional offices.

FOR INFORMATION AND GUIDANCE.

**RICARDO L. CALDERON, CESO III**

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<sup>6</sup> [http://www.socialresearchmethods.net/kb/stat\\_t.php](http://www.socialresearchmethods.net/kb/stat_t.php)



**Ecosystems Research and Development Bureau  
Department of Environment and Natural Resources (DENR)**

**BENCHMARKING AND IMPACT ASSESSMENT  
OF CBFM-CARP PROJECTS IN THE PHILIPPINES**

**INTERVIEW SCHEDULE**

**Interview Status**  
(Encircle appropriate code)

- 1 Completed
- 2 Refused
- 3 Deferred
- 4 Housing unit is temporarily closed/ not at home / On vacation
- 5 Vacant housing unit
- 6 Housing unit is demolished, destroyed by fire, typhoon, etc.
- 7 Others, specify \_\_\_\_\_

Respondent No: \_\_\_\_\_

Name of Interviewer: \_\_\_\_\_

Date of Interview: \_\_\_\_\_

Name of Reviewer: \_\_\_\_\_

Date of Review: \_\_\_\_\_

Name of PO: \_\_\_\_\_

Address: \_\_\_\_\_

**Part I. Information about the Respondent**

1. Name of Respondent \_\_\_\_\_
2. Age   3. Gender 1 - Male 2 - Female
4. Highest Educational Attainment ... 1 - No Formal Education 2 - Elementary 3 - High School  
4 - College 5 - Vocational / Technical 6 - Postgraduate
5. Number of Years in School
6. Civil Status ... 1 - Single 2 - Married 3 - Widow 4 - Separated 5 - Live In
7. Religion ... 1 - Roman Catholic 2 - Protestant (Baptist, Born Again, Christian, etc.)  
3 - Islam 4 - Iglesia ni Cristo 5 - Jehovah's Witnesses  
6 - Aglipay 5 - Others, pls specify \_\_\_\_\_
8. Ethnic Orientation... 1 - Cebuano (Visayan group) 2 - Ilocano 3 - Pangasinense  
4 - Kapampangan 5 - Tagalog 6 - Bicolano  
7 - Waray-Waray 8 - Surigaonon  
9 - Muslim Group (ethnic group in Mindanao who profess Islam Religion, e.g. Badjao, Tausug, Maranao, Maguindanao, etc.)  
10 - Lumad (ethnic group in Mindanao who do not profess Islam Religion, e.g. Subanen, Blaan, Talaandig, Hiligaonon, T'boli, etc.)

**Remarks**  
(II.A. Household Composition)

**Total household size**  
Increase  
1- Birth of new family member/s  
2- Addition of non-family member/s (e.g. helper)  
3- Grandchildren joined the family  
4- Adoption  
5- Children got married  
6- Others, pls specify \_\_\_\_\_  
Decrease  
1- Children got married  
2- Transfer of residence  
3- Employment in other place  
4- Death of family member/s  
5- Separation  
6- Others, pls specify \_\_\_\_\_

**Number of children in school**  
Increase  
1- Availability of educational budget through extra income from CBFM-CARP project  
2- Availability of educational budget through extra income from other sources  
3- Right age to be in school  
4- Others, pls specify \_\_\_\_\_  
Decrease  
1- Graduated  
2- Married  
3- Financial problem  
4- Stopped schooling/ lack of interest to go to school  
5- Employed  
6- Transfer of residence  
7- Others, pls specify \_\_\_\_\_

**Number of married children staying with the family**  
Increase  
1- Marriage  
2- Others, pls specify \_\_\_\_\_  
Decrease  
1- Death  
2- Transfer of residence  
3- Employment in other place  
4- Others, pls specify \_\_\_\_\_

**Part II. Social Impact**

**A. Household Composition**

Indicators	Base year (20__)	Five years after (20__)	Change (Please check)		Remarks (see appropriate box)
			Increase	Decrease	
1. Total household size (including extended family members and non-family members who stay in the same abode)					
2. Number of children in school					
3. Number of married children staying with the family					
4. Number of non-family members staying with the family					
5. Number of earning family members including the head who are staying with the family					

**B. Changes/Improvement in the Household/Family**

**B1. Property Ownership and Housing Amenities**

Indicators	Base year (20__)	Five years after (20__)	Change (Please check)		Remarks (see appropriate box)
			Increase	Decrease	
1. Size of residential lot Inside CBFM-CARP (sq. m.)					
Outside CBFM-CARP (sq. m.)					
Lot 1					
Lot 2					
Lot 3					
2. Size of house (sq. m.)					

Indicators	Base year (20__)	Five years after (20__)	Remarks (see appropriate box)
3. House ownership			

1- Owned 2- Rented 3- Living with relative's house 4- Caretaker of the house 5- Others

4. House materials used Within CBFM area			
Outside CBFM area			

1- Majority made of local materials (Cogon, Nipa, Bamboo, Wood)  
2- Majority concrete (Aggregate of Cement, Sand and Stone or Rock) 3- Combination of the two

**B2. Vehicle, farm machineries/equipment, furniture and appliances**

Goods/ Items	Base year (20__)		Remarks (see appropriate box)	Five years after (20__)		Change (Please check)		Remarks (see appropriate box)
	Does your family own the following items? (1-Yes 0-No)	No. of Units		Does your family own the following items? (1-Yes 0-No)	No. of Units	I n c r e a s e	D e c r e a s e	
Vehicle/ Farm machineries/ Equipment								
Motorbike/ habal - habal/ sky lab								
Jeepney								
Tricycle								
Private vehicle, for hire								
Kuliglig								
Fishing gears								
Others, pls specify								
Durable Goods								
Furniture								
Cabinet/Aparador								
Dining set								
Sala set								
Bed								
Others, pls specify								
Appliances								
Air conditioner (not referring to electric fan)								
DVD/VCD player								
Electric fan								
Flat iron								
Hot water boiler/ heater								
Radio								
Refrigerator/ freezer								
Rice cooker								
Stereo set / sing-along system								
Gas/ electric stove								
Television set (TV)								
Washing machine								
Others, pls specify								
Electronic gadgets								
Computer/ laptop/ netbook								
Landline telephone								
Mobile/ cell phone								
<b>TOTAL</b>								

**Remarks (II.A. Household Composition)**

**Number of non-family members staying with the family**  
Increase  
 1- Adoption  
 2- Employment of house helpers  
 3- Others, pls specify \_\_\_\_\_  
Decrease  
 1- Death  
 2- Transfer of residence  
 3- Others, pls specify \_\_\_\_\_

**Number of earning family members including the head ...**  
Increase  
 1- Employed  
 2- Others, pls specify \_\_\_\_\_  
Decrease  
 1- Transfer of residence  
 2- Employment in other place  
 3- Death  
 4- Others, pls specify \_\_\_\_\_

**Remarks (II.B1. Property Ownership)**

**Size of residential lot**  
Increase  
 1- Additional lot awarded through CBFM-CARP project  
 2- Expansion/ bought adjacent/ additional lot  
 3- Inherited additional lot  
 4- Transfer of residence  
 5- Others, pls specify \_\_\_\_\_  
Decrease  
 1- Transfer of residence  
 2- Selling of lot  
 3- Conversion of lot to other uses  
 4- Others, pls specify \_\_\_\_\_

**Size of house**  
Increase  
 1- Increase in income derived through CBFM-CARP project  
 2- Increase in income through other sources  
 3- House expansion  
 4- House renovation  
 5- Transfer of residence  
 6- Others, pls specify \_\_\_\_\_  
Decrease  
 1- Transfer of residence  
 2- House damaged  
 3- Others, pls specify \_\_\_\_\_

**House ownership**  
 1- Increase in income derived through CBFM-CARP project  
 2- Increase in income through other sources  
 3- Transfer of residence  
 4- Others, pls specify \_\_\_\_\_

**House materials used**  
 1- Increase in income derived through CBFM-CARP project  
 2- Increase in income through other sources  
 3- Renovation  
 4- For convenience  
 5- Others, pls specify \_\_\_\_\_

**Remarks (II.B2. Vehicle, farm machineries/ equipment)**

Increase  
 1- Provided under CBFM-CARP project  
 2- Increase in income derived through CBFM-CARP project  
 3- Increase in income through other sources  
 4- Bought through other livelihood projects  
 5- Bought by children  
 6- Given by relatives  
 7- Others, pls specify \_\_\_\_\_  
Decrease  
 1- For repair  
 2- Malfunctioned/ damaged  
 3- Sold  
 4- Others, pls specify \_\_\_\_\_

**B3. Cooking fuel used, source of lighting facility, source of drinking water, and toilet facility**

	Base year (20__)	Five years after (20__)	Remarks(see appropriate box)
Cooking Fuel Used Major (one only)			
Minor or alternative (one only)			
1- Firewood 2- Kerosene 3- Charcoal 4- LPG 5- Electricity 6- Others, pls specify _____			
Source of lighting facility Major (one only)			
Minor or alternative (one only)			
1- Kerosene 2- Petromax 3- Electricity 4- Solar 5- Battery 6- Candle 7- Generator 8- Others, pls specify _____			
Source of drinking water Major (one only)			
Minor or alternative (one only)			
1- Stream/Spring 2- Deep well 3- Pipe, local water district 4- rainwater 5- bottled water 6- Others, pls specify _____			
Toilet facility			
1- Open pit 2- Antipolo type 3- Water-sealed 4- Others, pls specify _____			

**B4. Common Illnesses**

	Does your family suffer from any of these illnesses in the past 6 months? (1-Yes 0-No)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	
Arthritis			
Birth complications (women)			
Bronchitis			
Chicken pox			
Cholera			
Cough and colds			
Dengue			
Diabetes			
Diarrhea			
Fever/flu			
Headache/migraine			
Heart disease			
Hepatitis			
Hypertension			
Kidney problem			
Leprosy			
Malaria			
Measles			
Sexually transmitted disease			
Skin infection/ disease			
Tuberculosis			
Typhoid fever			
Urinary track infection (UTI)			
Others, pls specify			

**Remarks  
(II.B3. Cooking fuel used...)****Cooking fuel used**

- 1- Increase in income derived through CBFM-CARP project
- 2- Increase in income through other sources
- 3- Others, pls specify \_\_\_\_\_

**Source of lighting facility**

- 1- Provided through CBFM-CARP project
- 2- Provider by LGU
- 3- Acquired through other means
- 4- Others, pls specify \_\_\_\_\_

**Source of drinking water**

- 1- Improvement of existing water system through CBFM-CARP project
- 2- Improvement of existing water system through LGU
- 3- Others, pls specify \_\_\_\_\_

**Toilet facility**

- 1- Improvement of existing water system through CBFM-CARP project
- 2- Improvement of existing water system through LGU projects
- 3- Others, pls specify \_\_\_\_\_

**Remarks  
(II.B4. Common Illnesses)****Positive**

- 1- Availability of health facilities and benefits in the community through CBFM-CARP projects
  - 2- Availability of health facilities and benefits in the community through LGU projects
  - 3- Availability of alternative medicine
  - 4- Others, pls specify \_\_\_\_\_
- Negative**
- 5- Dirty surroundings
  - 6- Climate change
  - 7- Aging
  - 8- Others, pls specify \_\_\_\_\_

## C. Changes/ Improvement in the Community

### C1. Health Facilities

	Which of the following health facilities are available in your community? (1-Available 0-Not available)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	
Rural health unit			<b>Remarks (II.C4. Health Facilities)</b> 1- Provided under CBFM-CARP project 2- Provided through PO's initiative 3- Provided through LGU assistance 4- Provided through barangay initiative 5- Improved accessibility in the community 6- Others, pls specify_____
Private clinic			
Day Care center			
Local hilot/ herbolaryo			
Botika ng barangay			
Emergency medical kit in the barangay			
Others, pls specify			

### C2. Infrastructures

	Which of the following infrastructures are available in your community? (1-Available 0-Not available)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	
Barangay hall			<b>Remarks (II.C1. Infrastructures)</b> 1- Provided under CBFM-CARP project 2- Provided through PO's initiative 3- Provided through LGU assistance 4- Provided through bigger IRA of the barangay 5- Others, pls specify_____
Bridge			
Church			
Market/ trading center			
Sports facilities			
Multi-purpose hall			
Road			
School			
Community park (plaza)			
Water reservoir			
Pipe irrigation/ irrigation canals			
Piped water			
Nursery facilities			
Post-harvest facilities (e.g. milling)			
PO office			
Others, pls specify			

**C3. Modes of Transportation**

	Which of the following modes of transportation are available in your community? (1-Available 0-Not available)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	
Motorcycle			
Pedicab/ Padyak/ Trisikad			
Tricycle			
Jeep			
Multicab			
Bus			
Kuliglig			
Private vehicle (for hire)			
Animal driven transportation (e.g horse, carabao)			
Banca, balsa			
Tramline			
Others, pls specify			

Remarks (II.C2. Modes of Transportation)
1- Availability due to CBFM-CARP project 2- Provided by LGU 3- Improvement of the barangay road system 4- Others, pls specify _____

**C3. Communication Facilities**

	Which of the following communication facilities are available in your community? (1-Available 0-Not available)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	
Landline			
Cellphone/ mobile phone			
Internet			
Two-way radio			

Remarks (II.C3. Communication Facilities)
1- Increase in income derived through CBFM-CARP project 2- Increase in income through other sources 3- Given by relatives/ friends, etc. 4- Provided by the barangay/ LGU 5- Others, pls specify _____

	Which of the following communication facilities are available in your community? (1-Available 0-Not available)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	
Village-based PA system (e.g. megaphone, tambuli, gong)			
Local radio station			
Others, pls specify			

Remarks (III.C3. Communication Facilities)
1- Increase in income derived through CBFM-CARP project 2- Increase in income through other sources 3- Given by relatives/ friends, etc. 4- Provided by the barangay/ LGU 5- Others, pls specify _____

**C5. Waste Disposal System**

Base year (20__)	Five years after (20__)	Remarks (see appropriate box)

- 1- thrown anywhere      2- burning      3- segregation/ recycling  
4- composting          5- collected      6- Others, pls specify \_\_\_\_\_

Remarks (II.C5. Waste Disposal System)
1- Change due to presence of CBFM-CARP project 2- Improvement due to LGU/barangay ordinance 3- Awareness on proper waste disposal/ training on Solid Waste Management 4- Others, pls specify _____

**D. Organizations/ Associations in the Community**

Types of Organization	Organization/ Association	Base year (20__)		Five years after (20__)		Remarks (see appropriate box)	
		Name of Organization	Role (1-member 2-officer 3-others)	Name of Organization	Role (1-member 2-officer 3-others)		
<b>Microfinance</b> - Center for Agriculture and Rural Development (CARD) - Tulay sa Pag-unlad Inc.(TSPI) - Ahon sa Hirap Inc. (ASHI) - ASA Philippines Foundation Inc  <b>Religious Organization</b> - Singles for Christ (SFC) - Couples for Christ (CFC) - El Shaddai - Knights of Columbus - Christian group - Bukas Loob sa Diyos (BLD)  <b>Government Organization</b> - Sangguniang Kabataan (SK) - Brgy. Council - Barangay Health Workers (BHW) - Barangay Nutrition Scholar (BNS)  <b>Socio-Civic/Socio Political</b> - Magdalo group - Philippines Guardians Brotherhood Inc. (PGBI) - Farmers' PO Association  <b>Transportation</b> - Operators and Drivers Association (ODA) - Piston - Pasang Masda - Federation of Jeepney Operators and Drivers Association of the Philippines (FEJODAP)	Microfinance						
	Religious Organization						
	Government Organization						
	Socio-Civic/Socio-Political						
	Transportation						
	Labor group						
	Senior Citizen						
	Women's Organization						
	Youth Organization						
	Persons With Disabilities (PWD)						
	<b>Remarks (II.D. Organizations/ Associations in the Community)</b> 1- Presence due to CBFM-CARP project      2- Presence due to LGU initiative      3- Linkaging and networking of PO 4- Presence due to Ngo initiative      5- Community representation/ empowerment      6- Others, pls specify_____						

**E. Financial/ Credit Sources in the Community**

	Which of the following financial institutions are available in your community? (1-Available 0-Not available)		Remarks (see appropriate box)
	Base year (20__)	Five (5) years after (20__)	
Cooperative			<b>Remarks (III.G. Financial/ Credit Sources)</b>  <u>Positive</u> 1- Through CBFM-CARP project linkage 2- Improvement/ development in the community 3- Others, pls specify _____ <u>Negative</u> 1- Decrease in membership 2- Poor management 3- Others, pls specify_____
Bank			
Private lender (Bombay, 5-6, relatives, etc.)			
Microfinance			
Others, pls specify			

### F. Development programs implemented in the community

Agency	Base year (20__)	Five years after (20__)	Remarks (see appropriate box)	Remarks (II.E. Development programs...)
	What are the development programs implemented in your community (please enumerate)	What are the development programs implemented in your community (please enumerate)		
1. DENR				1- Presence of CBFM-CARP project 2- Through LGU initiative 3- Through PO initiative 4- Networking and linkages 5- Change of government leadership 6- Others, pls specify _____
2. DA				
3. DAR				
4. DSWD				
5. DOH				
6. DPWH				
7. LGU				
8. Others, pls specify				
<b>TOTAL</b>				

#### Development Programs

<p><b>DENR</b></p> <ul style="list-style-type: none"> <li>1- National Greening Program</li> <li>2- Geo-Hazard Mapping and Assessment Program</li> <li>3- Cadastral Survey Program</li> <li>4- Adopt an Estero Program</li> <li>5- Linis Hangin Program</li> </ul> <p><b>DA</b></p> <ul style="list-style-type: none"> <li>1- Agri-Pinoy Rice Program</li> <li>2- Agri-Pinoy Corn Program</li> <li>3- Agri-Pinoy Livestock Program (e.g. Livestock and Poultry Information and Early Warning System (LPI-EWS) Project)</li> <li>4- National Fisheries Program</li> <li>5- High Value Crops Development Program</li> <li>6- Sugarcane Industry Roadmap</li> <li>7- Rehabilitation thru Fertilization (Salt Fertilization)</li> <li>8- National Coconut Planting/ Replanting (Participatory Coconut Planting Program)</li> <li>9- Farm Diversification (Intercropping)</li> <li>10- Kasaganahan sa Niyugan ay Kaunlaran ng Bayan (KAANIB)</li> <li>11- Maintenance of Coconut Seed farm/ Seed garden</li> <li>12- Others, pls specify _____</li> </ul> <p><b>DAR</b></p> <ul style="list-style-type: none"> <li>1- Land distribution program</li> <li>2- CARP</li> <li>3- Others, pls specify _____</li> </ul> <p><b>DSWD</b></p> <ul style="list-style-type: none"> <li>1- Sustainable Livelihood Program or SLP</li> <li>2- Sheltered Workshop for Persons with Disabilities (PWDs)</li> <li>3- Neighborhood Support Services for Older Persons</li> <li>4- Services for Women in Especially Difficult Circumstances</li> <li>5- Child Protective Services</li> <li>6- Golden Acres/ Home for the Elderly/ Home for the Aged</li> <li>7- Reintegration Program for Deportees and Returning Undocumented Overseas Filipino Workers (OFWs)</li> <li>8- Job Network Services for Clients at Crisis Intervention Unit (CIU)</li> <li>9- Family Drug Abuse Prevention Program (FDAPP)</li> <li>10- Intergenerational Program</li> <li>11- 4Ps, CCC</li> <li>12- Others, pls specify _____</li> </ul>	<p><b>DOH</b></p> <ul style="list-style-type: none"> <li>1- Adolescent and Youth Health Program (AYHP)</li> <li>2- Botika Ng Barangay (BnB)</li> <li>3- Breastfeeding TSEK</li> <li>4- Emerging and Re-emerging Infectious Disease Program</li> <li>5- Expanded Program on Immunization</li> <li>6- Essential Newborn Care</li> <li>7- Family Planning</li> <li>8- Food and Waterborne Diseases Prevention and Control Program</li> <li>9- Food Fortification Program</li> <li>10- Garantisadong Pambata</li> <li>11- Health Development Program for Older Persons</li> <li>12- Integrated Management of Childhood Illness (IMCI)</li> <li>13- Knock Out Tigdas 2007</li> <li>14- Leprosy Control Program</li> <li>15- Malaria Control Program</li> <li>16- Measles Elimination Campaign (Ligtas Tigdas)</li> <li>17- National Tuberculosis Control Program</li> <li>18- Natural Family Planning</li> <li>19- National Filariasis Elimination Program</li> <li>20- National HIV/STI Prevention Program</li> <li>21- National Mental Health Program</li> <li>22- National Dengue Prevention and Control Program</li> <li>23- National Prevention of Blindness Program</li> <li>24- Provision of Potable Water Program (SALINTUBIG Program - Sagana at Ligtas na Tubig Para sa Lahat)</li> <li>25- Rural Health Midwives Placement Program (RHMP) / Midwifery Scholarship Program of the Philippines (MSPP)</li> <li>26- Smoking Cessation Program</li> <li>27- Urban Health System Development (UHSD) Program</li> <li>28- Unang Yakap (Essential Newborn Care: Protocol for New Life)</li> <li>29- Women's Health and Safe Motherhood Project</li> <li>30- Women and Children Protection Program</li> <li>31- Others, pls specify _____</li> </ul> <p><b>DPWH</b></p> <ul style="list-style-type: none"> <li>1- Infrastructure Development Project (e.g. roads, bridges, flood control facilities and water supply)</li> <li>2- Others, pls specify _____</li> </ul>
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**G. Other Social Data**

Indicators	Base year (20__)	Five years after (20__)	Remarks (see appropriate box)
	(1) Yes (2) No	(1) Yes (2) No	
1. Sense of ownership of the project			
2. Scaling up of the project (e.g., increase membership, area coverage, product development, etc.)			
3. Replication done about the project (e.g., new PO joined within or outside the community, livelihood project implemented in neighboring barangay, etc.)			
4. Linkages/networks established, please specify (funding institution, private/government institutions, etc.)			

Remarks (II.F. Other Social Data)
<b>Sense of ownership</b>
<u>Positive</u>
1- Experienced benefits from/ positive impacts of the CBFM-CARP project (e.g. increase in income, access to resources)
2- Increase awareness of the project and its technical and environmental importance
3- Becoming a real beneficiary of the project
4- Treated the area like it's their own
5- Others, pls specify _____
<u>Negative</u>
1- No longer an active member
2- Disorganized PO
3- Inability to participate due to health problems
4- Others, pls specify _____
<b>Scaling up of project</b>
<u>Positive</u>
1- Affiliation to CBFM-CARP activities
2- Increase in number of beneficiaries, area coverage, etc.
3- Better understanding of the project
4- Increase interest to join programs by the government
5- Experienced benefits from/ positive impacts of the CBFM-CARP project (e.g. increase in income)
6- Others, pls specify _____
<u>Negative</u>
1- Benefits of the project not realized
2- Not all members benefitted from the project
3- Lack of fund
4- Others, pls specify _____
<b>Replication of the project</b>
<u>Positive</u>
1- For sustainability
2- Perceived positive impact of the project
3- Experienced benefits from/ positive impacts of the CBFM-CARP project (e.g. increase in income, sharing of resources)
4- Others, pls specify _____
<u>Negative</u>
1- Project did not succeed
2- Benefits of the project not realized
3- Not all members benefitted from the project
4- Lack of fund
5- Others, pls specify _____
<b>Linkages and networks</b>
<u>Positive</u>
1- Through CBFM-CARP activities
2- Through PO initiatives
3- Immediate need for the community
4- Others, pls specify _____
<u>Negative</u>
1- Members are not active
2- Lack of interest
3- Poor management
4- Others, pls specify _____

**III. Economic Impact**

**A. Estimated Annual Income**

Indicators	Source (refer to box below)		Remarks (Source)	Income/ year		Change (Please check)		Remarks (Income) (see appropriate box)
	Base year (20__)	Five years after (20__)		Base year (20__)	Five years after (20__)	I n c r e a s e	D e c r e a s e	
1. Primary Source of income _____								
2.a. Secondary Source of income _____								
2.b. Secondary Source of income _____								
2.c. Secondary Source of income _____								
3. How much (%) of your total income can be attributed to the CBFM-CARP Project?				Five years after (20__)		Remarks		

Classification of source of income

**Farming / Fishery / Forestry:** Agriculture, Livestock, Poultry, Fishing/ fish production, Forest related activities, Others, pls specify \_\_\_\_\_

**Skilled labor:** Automotive, Carpentry, Computer repair, Construction, Crafts/Weaving, Driver, Electrician, Laundry, Masonry, Massage/Reflexology, Mechanic, Painting, Phone repair, Plumbing, Sewing, Tailoring, Others, pls specify \_\_\_\_\_

**Salary and wages:** Teacher, Government employee, Semi-government employee, Private sector employee, Others, pls specify \_\_\_\_\_

**Small business:** Sari-sari store, Buy and sell, Direct selling, Others, pls specify \_\_\_\_\_

**Pension / Remittance:** Retirement pension, OFW remittance, Local remittance, Pension as Veteran, Survivor Pension, Disability pension, Others, pls specify \_\_\_\_\_

**Other income:** 4Ps/ CCT, Honorarium, Gifts, Property income (rental), Windfall income such as compensation and lottery wins, Income in-kind, Others, pls specify \_\_\_\_\_

**B. Farm size and percentage of farm area allocated for specific farm use****B1. Farm inside CBFM-CARP**

	Base year (20__)	Five years after (20__)	Change (Please check)		Remarks(see appropriate box)
			Increase	Decrease	
Area (hectare)					
% of Farm lot considered productive					
- Fruit Trees					
- Agricultural Crops					
-Timber forest products					
-Non timber forest product resources					
-Multiple use/ mixed					
<b>Unused/ Left idle</b>					
<b>TOTAL</b>	100%	100%	-	-	-

**B2. Farm outside CBFM-CARP**

Lot No.		Base year (20__)	Five years after (20__)	Change (Please check)		Remarks (see appropriate box)
				Increase	Decrease	
1	Area (hectare)					
	% of Farm lot considered productive	-	-	-	-	-
	-Fruit Trees					
	-Agricultural Crops					
	-Timber forest products					
	-Non timber forest product resources					
	-Multiple use/ mixed					
	<b>Unused/ Left idle</b>					
<b>TOTAL</b>	100%	100%	-	-	-	
2	Area (hectare)					
	% of Farm lot considered productive	-	-	-	-	-
	-Fruit Trees					
	-Agricultural Crops					
	-Timber forest products					
	-Non timber forest product resources					
	-Multiple use/ mixed					
	<b>Unused/ Left idle</b>					
<b>TOTAL</b>	100%	100%	-	-	-	

**C. Percentage of farm produce consumed domestically and sold to the market**

	Base year (20__)	Five years after (20__)	Change (Please check)		Remarks (see appropriate box)
			Increase	Decrease	
% of farm produce sold to the market					
% of farm produce consumed domestically					
	100%	100%	-	-	-

**Remarks  
(III.A. Estimated Annual  
Income)****Income/ year****Increase**

- 1- Increase in farm production brought about by CBFM-CARP investment
- 2- Increase in product price/demand/ market
- 3- Increase in farm size derived from the title awarded through CBFM-CARP project
- 4- Increase in capital
- 5- Increase in salary and wages
- 6- Increase in pension/ subsidy
- 7- Additional/ new source of income (e.g. employment, government subsidy, support from family members)
- 8- Time for harvest
- 9- Others, pls specify \_\_\_\_\_

**Decrease**

- 1- Decrease in farm production due to calamities/ natural disasters
- 2- Decrease in income due to health problems
- 3- Decrease in product price/ demand/ market
- 4- Decrease in farm size/ inputs/capital
- 5- Increase in production cost/ expense
- 6- Some farm produce were consumed by the household
- 7- Decrease in the support given by family members/ pension
- 8- Others, pls specify \_\_\_\_\_

**Remarks  
(III.B. Farm size...)****Farm size (Area)****Increase**

- 1- Acquired new/ additional farm lot through CBFM-CARP project
- 2- Brought new/additional
- 3- Others, pls specify \_\_\_\_\_

**Decrease**

- 1- Sold lot
- 2- Others, pls specify \_\_\_\_\_

**% Farm lot considered  
productive****Increase**

- 1- Availability of farm inputs through CBFM-CARP project
- 2- Change of season
- 3- Increase in income
- 4- Others, pls specify \_\_\_\_\_

**Decrease**

- 1- Change of season
- 2- Decrease in income
- 3- Others, pls specify \_\_\_\_\_

**Remarks  
(III.C. % of farm produce)****% of farm produce sold to the  
market****Increase**

- 1- Good quality of produce due to CBFM-CARP investment
- 2- Higher price of produce
- 3- Increase in demand
- 4- Others, pls specify \_\_\_\_\_

**Decrease**

- 1- Poor quality of produce
- 2- Low price of produce
- 3- Low demand
- 4- Others, pls specify \_\_\_\_\_

**% of farm produce consumed  
domestically****Increase**

- 1- Low production
- 2- Poor quality of produce
- 3- Low price of produce
- 4- Low demand
- 5- Others, pls specify \_\_\_\_\_

**Decrease**

- 1- Good quality of produce due to CBFM-CARP investment
- 2- Higher price of produce
- 3- Increase in demand
- 4- Others, pls specify \_\_\_\_\_

**D. Farming Systems and corresponding net income**

**Note:** Net income is equal to Gross farm income minus all Farm-related expenses (e.g. labor cost including *bayanihan*, marketing and transportation, etc.). Exclude in the computation crops that are for household consumption only.

Farm Produce (please encircle or add)	Net Income (Php)		Change (Please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
<b>Fruit trees</b>					
Avocado					
Banana					
Chico					
Citrus					
Durian					
Guyabano					
Jackfruit					
Lanzones					
Mango					
Mangosteen					
Marang					
Papaya					
Pili					
Pomelo					
Rambutan					
Santol					
Others, pls specify					
<b>subtotal</b>					
<b>Agricultural Crops</b>					
Abaca					
Ampalaya					
Bell pepper					
Cabbage					
Cacao					
Cassava					
Coconut					
Coffee					
Corn					
Cucumber					
Eggplant					
Gabi					
Ginger					
Palay/Rice					
Pechay					
Pineapple					
Sitaw					
Squash					
Sugarcane					
Sweet Potato					
Tiger grass					
Ube					
Others, pls specify					
<b>subtotal</b>					

**Remarks  
(III.D. Farming Systems  
and corresponding net  
income)**

Increase  
1- Increase in farm input through CBFM-CARP project  
2- Increase in farm size through CBFM-CARP project  
3- Good weather condition  
4- Good management  
5- Others, pls specify\_\_\_\_\_

Increase  
1- Decrease in farm input  
2- Decrease in farm size  
3- Presence of calamities and natural disasters  
4- Presence of pests and diseases  
5- Others, pls specify\_\_\_\_\_

Farm Produce (please encircle or add)	Net Income (Php)		Change (Please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
<b>Non timber forest products</b>					
Bamboo					
Bees					
Butterfly					
Honey					
Medicinal plant					
Nipa					
Rattan					
Resin					
Vines					
Wild food plants					
Others, pls specify					
<b>subtotal</b>					
<b>Forest trees</b>					
Apitong					
Auri					
Bagras					
Batino					
Dalipapak					
Falcata					
Gmelina					
Kalantas					
Lanite					
Mahogany					
Makaasim					
Mangium					
Molave					
Narra					
Nato					
Red lauan					
White lauan					
Others, pls specify					
<b>subtotal</b>					
<b>Livestock</b>					
Cattle/Carabao					
Goat					
Horse					
Poultry					
Swine					
Others, pls specify					
<b>subtotal</b>					
<b>Aquaculture</b>					
Bangus					
Prawn					
Tilapia					
Others, pls specify					
<b>subtotal</b>					
<b>TOTAL</b>					

**Remarks (III.D. Farming Systems and corresponding net income)**

Increase  
 1- Increase in farm input through CBFM-CARP project  
 2- Increase in farm size through CBFM-CARP project  
 3- Good weather condition  
 4- Good management  
 5- Others, pls specify\_\_\_\_\_

Increase  
 1- Decrease in farm input  
 2- Decrease in farm size  
 3- Presence of calamities and natural disasters  
 4- Presence of pests and diseases  
 5- Others, pls specify\_\_\_\_\_

**E. Anticipated income from forest product resources**

Species planted (please enumerate)	Base Year (20__)		
	No. of trees	Expected Year of Harvest	Expected Value (Php)
Acacia			
Agoho			
Akleng Parang			
Auri			
Bamboo			
Cashew			
Coffee			
Eucalyptus			
Falcata			
Gmelina			
Ipil			
Mahogany			
Manguim			
Narra			
Paper tree			
Pili			
Pine tree			
Red lauan			
Rubber tree			
White lauan			
Others, pls. specify			

**H. Presence of pests attack and extent of damage**

Indicators	Base year (20__)	Five years after (20__)	Change (Please check)		Remarks (see appropriate box)
			Increase	Decrease	
1. Are there incidences of pests attack? (1) Yes (2) No			-	-	
2. If yes, how much (%) is the damage cost in terms of income from CBFM-CARP project?					

**Remarks  
(IV.H. % of damage)**

Increase

- 1- Poor management (inability to perform appropriate countermeasures)
- 2- Others, pls specify \_\_\_\_\_

Decrease

- 1- Good management through assistance from CBFM-CARP project
- 2- Good management through LGU/ NGO assistance
- 3- Others, pls specify \_\_\_\_\_

**G. Annual Family Expenditures and Savings**

Remarks (III.G. Annual Family Expenditures and Savings)	Item of Expenditure and Savings	Amount (Php)		Change (Please check)		Remarks (see appropriate box)
		Base year (20__)	Five years after (20__)	Increase	Decrease	
<p><b>Farm-related</b> <u>Increase</u> 1- Increase in income/ purchasing power brought about by the CBFM-CARP project 2- Increase in income/ purchasing power brought about by others sources 3- Increase in farm size 4- Increase in labor cost 5- Increase on the cost of farm inputs 6- Others, pls specify _____</p> <p><u>Decrease</u> 1- Decrease in labor cost brought about by CBFM-CARP project linkage (e.g. bayanihan) 2- Some farm inputs were already provided under CBFM-CARP project 3- Others, pls specify _____</p> <p><b>Household</b> <u>Increase</u> 1- Increase in income/ purchasing power brought about by the CBFM-CARP project 2- Increase in income/ purchasing power brought about by others sources 3- Increase in number of household members 4- Increase in number of children in school 5- Increase in health problems occurrence 6- Others, pls specify _____</p> <p><u>Decrease</u> 1- Some farm produce from CBFM-CARP project were consumed domestically 2- Decrease in number of household members 3- Decrease in income 4- Decrease in number of children in school 5- Decrease in health problems occurrence 6- Others, pls specify _____</p> <p><b>Debt/Loan</b> <u>Increase</u> 1- Decrease in income 2- Higher cost of living/ increase of expenditure 3- Inability to pay previous debts/ loans 4- Others, pls specify _____</p> <p><u>Decrease</u> 1- Increase in income brought about by the CBFM-CARP project 2- Increase in income brought about by others sources 3- Lower cost of living 4- Others, pls specify _____</p> <p><b>Savings</b> <u>Increase</u> 1- Increase in income brought about by the CBFM-CARP project 2- Increase in income brought about by others sources 3- Lower cost of living 4- Others, pls specify _____</p> <p><u>Decrease</u> 1- Higher cost of living 2- Decrease in income 3- Payment of debts 4- Others, pls specify _____</p>	1. Expenditure					
	a. Farm related					
	Crops/ Agriculture					
	Livestock/ poultry					
	Timber and non-timber					
	Marketing and transport cost					
	b. Household					
	Food					
	Education					
	Clothing & Personal Care (e.g. toiletries)					
	Transportation					
	Communication					
	Health (e.g. hospitalization, medicine, vitamins)					
	Electricity					
	Water					
	Fuel used in cooking					
	o Firewood					
	o LPG					
	o Kerosene					
	o Charcoal					
	House rental					
	House repair and maintenance					
	Special occasions (Fiesta, wedding, birthday, etc.)					
	Others (acquisition of furniture and appliances)					
	c. Payment of debt/credit/Loan in ____ year					
	d. Taxes					
	2. Savings (if there are any)					
	<b>TOTAL</b>					



Ecosystems Research and Development Bureau  
Department of Environment and Natural Resources (DENR)

## BENCHMARKING AND IMPACT ASSESSMENT OF CBFM-CARP PROJECTS IN THE PHILIPPINES

### GUIDE QUESTIONS FOR ENVIRONMENTAL RESOURCE ASSESSMENT

(**Note:** It is important to have maps (e.g. soil, topographical, landuse, geological) of the CBFM-CARP site to locate some of the natural resources in the area. Some of the environmental data (e.g. climate data) should or may be secured from appropriate agencies like PAGASA. Others (e.g. ecological profile) can be sourced from secondary data and literature where similar studies/ investigations were undertaken.)

#### Part I. Physical Assessment

##### A. Climate Information

	Base year (20__)	Five years after (20__)	Remarks (see appropriate box)
Climatic Type			-
1- Type 1    2- Type 2    3- Type 3    4- Type 4			
Average temperature			
Average annual rainfall			-
Rainy months			-
Prevailing wind direction			-
1- Northeast    2- Southwest			

**Remarks**  
(IV.A. Average temperature)

Positive

1- Increase in vegetation brought about by CBFM-CARP project activities

2- Increase in vegetation brought about by other initiatives

3- Others, pls specify \_\_\_\_\_

Negative

1- Decrease in vegetation (e.g. illegal logging)

2- Others, pls specify \_\_\_\_\_

##### B. Geologic features

Geologic Features	Description of the prevailing geologic features of the area						Description
	Base year (20__)			Five years after (20__)			
	1-Yes 2- No	Number		1-Yes 2- No	Number		
Presence of volcano		active	dormant		active	dormant	
Presence of hot springs/ mud springs	1-Yes 2- No	Number		1-Yes 2- No	Number		
Rock formation (pls. describe, e.g. karst, limestone, etc.)							
Others, pls specify							

##### C. Water Resources

1. What are the water resources within the area? Specify number and location on a map. \_\_\_\_\_  
Describe each in terms of number, clarity, color, and others. What are their uses?

Water Resources	Description								Remarks (see appropriate box)
	Base year (20__)				Five (5) years after (20__)				
	No.	Clarity	Color	Main Use	No.	Clarity	Color	Main Use	
Springs									
Streams									
Rivers									
Ponds/lakes									
Others, pls specify									

Clarity: 1- clear    2- turbid

Color: 1- clear    2- brownish    3- grayish

Uses: 1 – drinking purposes    2 – household/domestic use (e.g., cooking, washing, etc.)

3 – agriculture    4 – swimming/recreation    5 – for transport    6 – Others, pls specify

**Remarks**  
(IV.C1. Water resources & C2. Sources of water for development)

Positive

1- Increase in vegetation brought about by CBFM-CARP project activities

2- Increase in vegetation brought about by other initiatives

3- Good management through the assistance provided under CBFM-CARP project

1- Good management through LGU/ NGO initiative

2- Others, pls specify \_\_\_\_\_

Negative

1- Pollution

2- Others, pls specify \_\_\_\_\_

2. Identify areas or sources where water is sufficient to supply development (e.g. agriculture and ENR).

Sources of water for development					Change (Please check)		Remarks (see appropriate box)
Sources	Base year (20__)		Five years after (20__)		Increase	Decrease	
	(1) Yes (2) No	No.	(1) Yes (2) No	No.			
River							
Spring							
Lake							
Pond							
Stream							
Sources of water for development					Change (Please check)		Remarks (see appropriate box)
Sources	Base year (20__)		Five years after (20__)		Increase	Decrease	
	(1) Yes (2) No	No.	(1) Yes (2) No	No.			
Waterfalls							
Ocean							
Rainwater							
Manmade (dams, wells, canals, hand pumps)							

**Remarks (IV.C2. Sources of water for development)**

Positive

- Increase in vegetation brought about by CBFM-CARP project activities
- Increase in vegetation brought about by other initiatives
- Good management through the assistance provided under CBFM-CARP project
- Good management through LGU/ NGO initiative
- Others, pls specify \_\_\_\_\_

Negative

- Pollution
- Others, pls specify \_\_\_\_\_

3. What are the sources of water pollutants in the area?

Sources	Base year (20__) (1) Yes (2) No	Five years after (20__) (1) Yes (2) No	Remarks (see appropriate box)
Industrial waste			
Sewage and waste water			
Mining activities			
Marine dumping			
Accidental oil leakage			
Household wastes			
Farm-related wastes			
Others, pls specify			

**Remarks (IV.C3. Sources of water pollutants)**

Positive

- Good management through the assistance provided under CBFM-CARP project
- Good management through LGU/ NGO initiative
- Others, pls specify \_\_\_\_\_

Negative

- Poor management
- Others, pls specify \_\_\_\_\_

**D. Soil Properties**

	Description of the general condition of the soil in the area		Change (Please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
Type of soil 1- clayey    2- loamy    3- sandy/ rocky    4- silty			-	-	
Fertility (TSOM* content):			-	-	
% fertile					
% moderate fertile					
% not fertile					
Level of susceptibility:			-	-	
% prone to erosion					
% prone to landslide					
Acidity (color)			-	-	
1- Brown    2- Red    3- Yellow					

**Remarks (IV.F. Soil properties)**

**Fertility & Acidity**

Positive

- Good management of soil with guidance provided through CBFM-CARP project (e.g. proper cropping pattern)
- Good management of soil with guidance provided by LGU and NGO (e.g. proper cropping pattern)
- Others, pls specify \_\_\_\_\_

Negative

- Excessive use of pesticides, herbicides
- Pollution
- Others, pls specify \_\_\_\_\_

**Level of susceptibility**

Increase

- Decrease in vegetation (illegal logging)
- Poor management
- Others, pls specify \_\_\_\_\_

Decrease

- Increase in vegetation through CBFM-CARP project
- Good management with guidance provided by LGU and NGO
- Others, pls specify \_\_\_\_\_

Top soil organic matter



**Part II. Biological Resources**

1. Land cover & Land use

	Percent distribution of extent of land cover/ land use in the area		Change (please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
Grassland					
Shrubland					
Upland/ Agroforestry Farms/ cultivated areas					
Built-up areas					
Open/ unvegetated					
Forest (natural and plantation)					
Others, pls specify					
<b>Total</b>	100%	100%			

Remarks (IV.G1. Land cover & Land use)
<u>Increase</u> 1- High survival rate of plant species 2- Farming activities due to CBFM-CARP project 3- Tree planting activities 4- Others, pls specify _____
<u>Decrease</u> 1- Low survival rate of plant species 2- Conversion of land for farm use 3- Illegal logging 4- Others, pls specify _____

2. Flora

Grasses	Extent of distribution in the entire CBFM area 1 – abundant (>50%) 2- moderate (≤50%) 3 – few (≤10%)		Change (please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
Amorseco					
Carabao grass					
Cogon					
Dilang baka					
Hagonoi					
Makahiya					
Sambong					
Talahib					
Tawa-tawa					
Others, pls specify					

Remarks (IV.G2. Flora)
<u>Increase</u> 1- Increase can be attributed to CBFM-CARP project intervention 2- Good habitat 3- Good management 4- Others, pls specify _____
<u>Decrease</u> 1- Damaged habitat (e.g. kaingin, illegal logging) 2- Poor management 3- Presence of pests and diseases 4- Others, pls specify _____

Shrubs	Extent of distribution in the entire CBFM area 1 – abundant (>50%) 2- moderate (≤50%) 3 – few (≤10%)		Change (please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
Acapulco					
Coronitas					
Hagonoy					
Lagundi					
Sapinit					
Others, pls specify					

Forest and Fruit Trees	Extent of distribution in the entire CBFM area 1 – abundant (>50 trees) 2- moderate (≤50 trees) 3 – few (≤10 trees)}		Change (please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
<b>Forest Trees</b>					
Apitong					
Auri					
Batino					
Dalipapak					
Falcata					
Gmelina					
Kalantas					
Lanite					
Mahogany					
Makaasim					
Mangium					
Molave					
Narra					
Red lauan					
White lauan					
Others, pls specify					
<b>Fruit Trees</b>					
Avocado					
Banana					
Cacao					
Chico					
Citrus					
Coffee					
Durian					
Guyabano					
Jackfruit					
Lanzones					
Mango					
Mangosteen					
Marang					
Papaya					
Pili					
Pomelo					
Rambutan					
Rubber					
Santol					
Others, pls specify					

Remarks (IV.G2. Flora)
<u>Increase</u>
1- Increase can be attributed to CBFM-CARP project intervention
2- Good habitat
3- Good management
4- Others, pls specify _____
<u>Decrease</u>
1- Damaged habitat (e.g.kaingin)
2- Poor management
3- Presence of pests and diseases
4- Others, pls specify _____

1. Fauna

Mammals	Extent of distribution in the entire CBFM area 1 – abundant (>50 individuals) 2- moderate (≤50 individuals) 3 – few (≤10 individuals)}		Change (please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
Bat					
Deer					
Monkey					
Musang					
Wild pig					
Wild Cat					
Others, pls specify					

Birds and Fowls	Extent of distribution in the entire CBFM area 1 – abundant (>50 individuals) 2- moderate (≤50 individuals) 3 – few (≤10 individuals)}		Change (please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
Grass Owl					
Gubat					
Kamukon					
Karagi					
Kingfisher					
Kokok					
Labuyo					
Layang-layang					
Mariang Kaprang					
Maya					
Bato-bato					
Amambanu					
Aswang damo					
Balinsasayaw					
Palapago					
Palapago gubat					
Payugypog					
Philippine Eagle					
Piliw-piliwan					
Pipit					
Pirit					
Sabukot					
Serpent Eagle					
Tsutsturyot					
Uwak					
White-breasted Eagle					
Wild duck					
Others, pls specify					

Remarks (IV.G3. Fauna)
<p><b>Remarks (IV.G3. Fauna)</b></p> <p><u>Increase</u></p> <p>1- Increase can be attributed to CBFM-CARP project intervention</p> <p>2- Good habitat</p> <p>3- Good management</p> <p>4- Others, pls specify _____</p> <p><u>Decrease</u></p> <p>1- Damaged habitat (e.g. kaingin, illegal logging)</p> <p>2- Poor management</p> <p>3- Pollution (e.g. noise)</p> <p>4- Illegal collection</p> <p>5- Others, pls specify _____</p>

Amphibians and Reptiles	Extent of distribution in the entire CBFM area 1 – abundant (>50 individuals) 2- moderate (≤50 individuals) 3 – few (≤10 individuals)}		Change (please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
Crocodile					
Bangkalang					
Frog/Toad					
Iguana					
Gecko/ Tuko					
Monitor Lizard					
Snake					
Turtles					
Others, pls specify					

**Remarks (IV.G3. Faunal species)**

Increase  
 1- Increase can be attributed to CBFM-CARP project intervention  
 2- Good habitat  
 3- Good management  
 4- Others, pls specify \_\_\_\_\_

Decrease  
 1- Damaged habitat (e.g. kaingin, illegal logging)  
 2- Poor management  
 3- Pollution (e.g. noise, water)  
 4- Illegal collection  
 5- Others, pls specify \_\_\_\_\_

Rodents and Shrews	Extent of distribution in the entire CBFM area 1 – abundant (>50 individuals) 2- moderate (≤50 individuals) 3 – few (≤10 individuals)}		Change (please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
Rats					
Mouse					
Others, pls specify					

Fishes (those found in lakes and ponds)	Extent of distribution in the entire CBFM area 1 – abundant (>50 individuals) 2- moderate (≤50 individuals) 3 – few (≤10 individuals)}		Change (please check)		Remarks (see appropriate box)
	Base year (20__)	Five years after (20__)	Increase	Decrease	
Tilapia					
Bangus					
Biya					
Hito					
Dalag					
Shrimps					
Shellfish					
Others, pls specify					

*Thank you very much!*