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TECHNICAL BULLETIN

No. 2016- 06

SUBJECT : **GUIDELINES ON SOCIO-ECONOMIC ASSESSMENT AND MONITORING SYSTEM (SEAMS) IN PROTECTED AREAS**

Pursuant to RA 7586 otherwise known as the National Integrated Protected Areas System (NIPAS) Act of 1992, DAO 2008-26, the Revised Implementing Rules and Regulations, and in order to enhance DAO 2013-20, "Revised Guidelines on the Survey and Registration of Protected Area Occupants", particularly the socio-economic data as basis in protected area management planning, the following guidelines on Socio-Economic Assessment and Monitoring System is hereby issued.

Section 1. Objectives. The SEAMS aims to provide the Protected Area Superintendents and field implementers a standardized method of assessing and monitoring the socio-economic condition of occupants in protected areas. The results of the SEAMS shall be used in protected area planning and in carrying out management interventions which include the recognition of qualified tenured migrants for the issuance of Protected Area Community Based Resource Management Agreement (PACBRMA) and other appropriate tenurial instruments. These will also be used to determine the ecosystem services, values and benefits of protected areas to the communities.

The specific objectives of the SEAMS are: [1] to characterize the socio-economic condition of occupants in the PAs and nearby areas, [2] to identify and locate sources and values of the various ecosystems in the PAs; [3] to determine the degree of degradation or improvement in ecosystem services, uses, and values, and [4] to identify ecosystem pressures and threats, and their causes.

Section 2. Scope. The SEAMS shall cover all occupants inside the protected area. It may also cover communities in the buffer zones as well as those living adjacent and are dependent on the resources inside the protected area for subsistence and livelihood and/or benefiting from ecosystem services. Whenever applicable, firms or industries operating within and adjacent to protected areas shall also be covered by SEAMS.

Section 3. The Socio-Economic Assessment and Monitoring System (SEAMS). The SEAMS is a tool for a comprehensive assessment of socio-economic condition of communities within and adjacent to protected areas under the NIPAS. It provides information included in the conventional survey and registration of protected area occupants and other relevant data on demographic, socio-cultural, economic, physical and institutional characterization of the PAs. The areas to be surveyed can go beyond those within the PA boundaries to determine the extent of users and utilization of PA resources relevant to a comprehensive and effective management.

Together with the bio-physical information, the socio-economic assessment provides bases for formulating and enhancing PA management plans and policies.

The SEAMS enhances Forms 1 and 2 of DAO 2013-20 or the "*Revised Guidelines on Survey and Registration of Protected Area Occupants*", particularly the socio-economic data attached as Annexes A and B, respectively. It also serves as guide for protected area staff on the proper collection, encoding, processing and management of data. The SEAMS shall be conducted every five years.

The SEAMS shall be supplemented by a User Manual to be issued by the DENR through the Biodiversity Management Bureau.

Section 4. Team Formation and Composition. The SEAMS Team shall be created by the Regional Director with the minimum composition as follows:

Team Leader: Chief, Conservation and Development Division

Members:

- a. Protected Area Superintendent (PASu)
- b. PENRO/CENRO, Technical staff (GIS trained)
- c. City/Municipal ENRO/PDC representative
- d. Barangay representative
- e. Local CSO representative
- f. Community/PO/IP representative

The Team shall be responsible for the actual conduct and implementation of the SEAMS.

Section 5. Data Management. Data management refers to the encoding, processing and analysis of demographic, socio-economic, physical and institutional data gathered during the assessment phase. To facilitate data management, the SEAMS Automated Utility Tool, an MS Excel-based application, shall be used. The following are the procedures employed in data management:

- a. **Encoding** – The data derived from the socio-economic assessment and SRPAO forms shall be encoded using the SEAMS Automated Utility Tool. It is important that the encoder must at all times ensure the integrity of the data.
- b. **Processing** – The encoded data shall be electronically processed using the SEAMS Automated Utility Tool. Expected outputs are the demographic, socio-economic, physical, institutional indicators and other relevant information as may be necessary. Maps shall also be generated to reflect spatial information.
- c. **Analysis** – The information obtained from the data processing shall be analyzed and interpreted for reference in protected area management planning and decision making. It shall also be used to identify the qualified tenured migrants for the issuance of PACBRMA and other appropriate tenurial instruments. The outputs of the analysis shall be in the form of graphs, tables, and GIS maps.

Section 6. Reporting. Based on the information generated and analyzed from the SEAMS, in conjunction with the results of the Biodiversity Assessment and Monitoring System (BAMS), the Assessment Team shall prepare and submit to the Regional Director

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the complete narrative report, i.e., demographic and socio-economic profiles, physical and institutional information. The report shall include the following attachments:

- a. Encoded SEAMS (Forms 1, 2 & 3, using SEAMS Automated Utility Tool);
- b. PA map reflecting the homelots, farmlots, resource uses and threats;
- c. Official List of Tenured Migrants (Form 5/Annex F of DAO 2013-32); and
- d. Accomplished Form for Indigenous People (Form 6/Annex G of DAO 2013-32).

The report, with corresponding recommendations, shall be presented to the PAMB and/or the DENR. The Management Board and/or the DENR shall ensure that appropriate management interventions are implemented to address the gaps and issues identified in the assessment report.

The DENR Regional Office shall prepare and submit to the BMB, within 3 months after the conduct of the SEAMS, hard copy of the narrative report with attachments b, c and d; and electronic copies of the entire SEAMS report.

The BMB shall consolidate the results of the SEAMS, together with the BAMS as input to the State of the Protected Area Report.

Section 7. Monitoring. To complement the SEAMS which shall be conducted every five (5) years, annual monitoring shall be undertaken through Focus Group Discussion and for ecotourism, using TB No. 2013-03, "Prescribed Tools for Impact Monitoring of Ecotourism Activities" to assess the impacts of protected area management to the local communities.

Section 8. Fund Allocation. The DENR Regional Offices shall allocate necessary funding for the conduct of the SEAMS in its Annual Work and Financial Plan.

Section 9. Transitory Provision. Existing socio-economic data in protected areas shall be reviewed and updated based on this Technical Bulletin.

Section 10. Effectivity. This Technical Bulletin shall take effect immediately and shall be circulated for the information and guidance of all concerned.


THERESA MUNDITA S. LIM
Director



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
REGION _____

SOCIO-ECONOMIC ASSESSMENT AND MONITORING SYSTEM (SEAMS)

DEMOGRAPHIC

Per Household

FORM 1

Questionnaire

- 1. PENRD : _____
- 2. CENRD : _____
- 3. Name of Protected Area : _____
- 4. Province : _____
- 5. City/ Municipality : _____
- 6. Barangay and Sitio : _____
- 7. Date Accomplished : _____
- 8. Date of Occupancy (month/day/year) : _____
- 9. Household Tag No. (Reg-PA-Year-Mun.-Brgy.-Tag No.) : _____

- 10. Proofs of Occupancy : _____
- 11. Area of Homelot (ha.) : _____
Location (GPS Reading): _____
- 12. Area of Farmlot (ha.) : _____
Location (GPS Reading): _____
- 13. Area of other uses, if any : _____
Location (GPS Reading): _____

14. Demographic Information:

Name of Household Head	Name of Household Members	Relationship to the Household Head	Sex (Male/Female)	Age	Civil Status	Religion	Highest Educational Attainment	Ethnic Origin	Remarks (Occupation)

Note: All pages of the form should be signed by the Team Leader



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
ECONOMIC PROFILE (Per Household)**

1. Sources of Income

1.1. Revenue from Ecotourism

1.1.a Household member name (list in the same order as Form 1 section 14)	1.1.b Sex (Male/Female)	1.1.c Tour guiding		1.1.d Ecotodge operation		1.1.e Kiosk operation		1.1.f Boat/Kayak operation		1.1.g Porterage		1.1.h Transport services (specify)			1.1.i Catering/restaurant operations		1.1.j Trekking		1.1.k Caving		1.1.l Others (specify)			1.1.m Remarks		
		1.1.c.i Average Annual income	1.1.c.ii Location where ecotourism activity is conducted	1.1.d.i Average Annual income	1.1.d.ii Location where ecotourism activity is conducted	1.1.e.i Average Annual income	1.1.e.ii Location where ecotourism activity is conducted	1.1.f.i Average Annual income	1.1.f.ii Location where ecotourism activity is conducted	1.1.g.i Average Annual income	1.1.g.ii Location where ecotourism activity is conducted	1.1.h_sp Specific transport service	1.1.h.i Average Annual income	1.1.h.ii Location where ecotourism activity is conducted	1.1.i.i Average Annual income	1.1.i.ii Location where ecotourism activity is conducted	1.1.j.i Average Annual income	1.1.j.ii Location where ecotourism activity is conducted	1.1.k.i Average Annual income	1.1.k.ii Location where ecotourism activity is conducted	1.1.l_sp Others (specify)	1.1.l.i Average Annual income	1.1.l.ii Location where ecotourism activity is conducted			
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2. Cost

2.1. Costs incurred in ecotourism-based income source

Materials						Equipment						Labor						Transportation						Others						2.1R Remarks						
2.1.aM Items	2.1.bM Total Annual Cost	2.1.cM Unit	2.1.dM Average price per unit	2.1.eM Number of times cost is incurred in a year	2.1.fM Cost incurred during what stage?	2.1.aE Items	2.1.bE Total Annual Cost	2.1.cE Unit	2.1.dE Average price per unit	2.1.eE Number of times cost is incurred in a year	2.1.fE Cost incurred during what stage?	2.1.aL Items	2.1.bL Total Annual Cost	2.1.cL Unit	2.1.dL Average price per unit	2.1.eL Number of times cost is incurred in a year	2.1.fL Cost incurred during what stage?	2.1.aT Items	2.1.bT Total Annual Cost	2.1.cT Unit	2.1.dT Average price per unit	2.1.eT Number of times cost is incurred in a year	2.1.fT Cost incurred during what stage?	2.1.aO Items	2.1.bO Total Annual Cost	2.1.cO Unit	2.1.dO Average price per unit	2.1.eO Number of times cost is incurred in a year	2.1.fO Cost incurred during what stage?		2.1.gO Specify cost item					

*use the back of the form or a clean sheet if the items exceed the available slots in this section.



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
ECONOMIC PROFILE (Per Household)**

1.2. Income source from Fisheries (Salt water)

1.2.a Type of fishing method	1.2.b Species	1.2.c Unit of measure	1.2.d Volume sold per year	1.2.e Volume consumed per year	1.2.f Price per unit	1.2.g Value	1.2.h Type of gears used per fishing method	1.2.i Total number of fishing hours per year	1.2.j Number of season or period in a year	1.2.k Season or period of fishing (month)	1.2.l location or landmarks where fishing activity is conducted	1.2.m No of people & household members involved in the activity	1.2.n Marketing agents	1.2.o Market location	1.2.p Type of payment	1.2.q Remarks (Male/Female)
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2.2. Costs incurred from fishery-based income source

Materials						Equipment						Labor						Transportation						Others						2.2R		
2.2.aM Items	2.2.bM Total Annual Cost	2.2.cM Unit	2.2.dM Average price per unit	2.2.eM Number of times cost is incurred in a year	2.2.fM Cost incurred during what stage?	2.2.aE Items	2.2.bE Total Annual Cost	2.2.cE Unit	2.2.dE Average price per unit	2.2.eE Number of times cost is incurred in a year	2.2.fE Cost incurred during what stage?	2.2.aL Items	2.2.bL Total Annual Cost	2.2.cL Unit	2.2.dL Average price per unit	2.2.eL Number of times cost is incurred in a year	2.2.fL Cost incurred during what stage?	2.2.aT Items	2.2.bT Total Annual Cost	2.2.cT Unit	2.2.dT Average price per unit	2.2.eT Number of times cost is incurred in a year	2.2.fT Cost incurred during what stage?	2.2.aO Items	2.2.bO Total Annual Cost	2.2.cO Unit	2.2.dO Average price per unit	2.2.eO Number of times cost is incurred in a year	2.2.fO Cost incurred during what stage?	2.2.gO Specify cost item	Remarks	

*use the back of the form or a clean sheet if the items exceed the available slots in this section.



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
ECONOMIC PROFILE (Per Household)**

1.3. Income source from Fisheries (Fresh water)

1.3.a Type of fishing method	1.3.b Species	1.3.c Unit of measure	1.3.d Volume sold per year	1.3.e Volume consumed per year	1.3.f Price per unit	1.3.g Value	1.3.h Type of gears used per fishing method	1.3.i Total number of fishing hours per year	1.3.j Number of season or period in a year	1.3.k Season or period of fishing (month)	1.3.l location or landmarks where fishing activity is conducted	1.3.m No of people & household members involved in the activity	1.3.n Marketing agents	1.3.o Market location	1.3.p Type of payment	1.3.q Remarks (Male/Female)
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2.3. Costs incurred from fishery-based income source

Materials						Equipment						Labor						Transportation						Others						2.3R Remarks		
2.3.aM Items	2.3.bM Total Annual Cost	2.3.cM Unit	2.3.dM Average price per unit	2.3.eM Number of times cost is incurred in a year	2.3.fM Cost incurred during what stage?	2.3.aE Items	2.3.bE Total Annual Cost	2.3.cE Unit	2.3.dE Average price per unit	2.3.eE Number of times cost is incurred in a year	2.3.fE Cost incurred during what stage?	2.3.aL Items	2.3.bL Total Annual Cost	2.3.cL Unit	2.3.dL Average price per unit	2.3.eL Number of times cost is incurred in a year	2.3.fL Cost incurred during what stage?	2.3.aT Items	2.3.bT Total Annual Cost	2.3.cT Unit	2.3.dT Average price per unit	2.3.eT Number of times cost is incurred in a year	2.3.fT Cost incurred during what stage?	2.3.aO Items	2.3.bO Total Annual Cost	2.3.cO Unit	2.3.dO Average price per unit	2.3.eO Number of times cost is incurred in a year	2.3.fO Cost incurred during what stage?		2.3.gO Specify cost item	

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**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
ECONOMIC PROFILE (Per Household)**

1.4. Income source from Trading, Processing, and Manufacturing

1.4.a Type of trading activity	1.4.b Species	1.4.c Unit of measure	1.4.d Volume sold per year	1.4.e Volume consumed per year	1.4.f Price per unit	1.4.g Value	1.4.h Specific site/ location/ landmarks where trading activity is conducted	1.4.i Season/ period of trading	1.4.j No of people & household members involved in the activity	1.4.k Marketing agents	1.4.l Market location	1.4.m Type of payment	1.4.n Remarks (Male/Female)
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2.4. Costs incurred from Trading, Processing, and Manufacturing

Materials						Equipment						Labor						Transportation						Others						2.4R Remarks		
2.4.aM Items	2.4.bM Total Annual Cost	2.4.cM Unit	2.4.dM Average price per unit	2.4.eM Number of times cost is incurred in a year	2.4.fM Cost incurred during what stage?	2.4.aE Items	2.4.bE Total Annual Cost	2.4.cE Unit	2.4.dE Average price per unit	2.4.eE Number of times cost is incurred in a year	2.4.fE Cost incurred during what stage?	2.4.aL Items	2.4.bL Total Annual Cost	2.4.cL Unit	2.4.dL Average price per unit	2.4.eL Number of times cost is incurred in a year	2.4.fL Cost incurred during what stage?	2.4.aT Items	2.4.bT Total Annual Cost	2.4.cT Unit	2.4.dT Average price per unit	2.4.eT Number of times cost is incurred in a year	2.4.fT Cost incurred during what stage?	2.4.aO Items	2.4.bO Total Annual Cost	2.4.cO Unit	2.4.dO Average price per unit	2.4.eO Number of times cost is incurred in a year	2.4.fO Cost incurred during what stage?		2.4.gO Specify cost item	

*use the back of the form or a clean sheet if the items exceed the available slots in this section.



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
ECONOMIC PROFILE (Per Household)**

1.5. Revenue from Agriculture

1.5.a Type of agricultural activity	1.5.b Species	1.5.c Area (ha.)	1.5.d Unit of measure	1.5.e Volume sold per year	1.5.f Volume consumed per year	1.5.g Price per unit	1.5.h Value	1.5.i Specific site/ location/ landmarks	1.5.j Describe/ enumerate specific activities conducted in the production process	1.5.k Season of production (months)	1.5.l Number of production period per year	1.5.m No of people & household members involved in the activity	1.5.n Marketing agents	1.5.o Market location	1.5.p Type of payment	1.5.q Remarks (Male/Female)
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2.5. Costs incurred from agriculture-based income source

Materials						Equipment						Labor						Transportation						Others						2.5R Remarks			
2.5.aM Items	2.5.bM Total Annual Cost	2.5.cM Unit	2.5.dM Average price per unit	2.5.eM Number of times cost is incurred in a year	2.5.fM Cost incurred during what stage?	2.5.aE Items	2.5.bE Total Annual Cost	2.5.cE Unit	2.5.dE Average price per unit	2.5.eE Number of times cost is incurred in a year	2.5.fE Cost incurred during what stage?	2.5.aL Items	2.5.bL Total Annual Cost	2.5.cL Unit	2.5.dL Average price per unit	2.5.eL Number of times cost is incurred in a year	2.5.fL Cost incurred during what stage?	2.5.aT Items	2.5.bT Total Annual Cost	2.5.cT Unit	2.5.dT Average price per unit	2.5.eT Number of times cost is incurred in a year	2.5.fT Cost incurred during what stage?	2.5.aO Items	2.5.bO Total Annual Cost	2.5.cO Unit	2.5.dO Average price per unit	2.5.eO Number of times cost is incurred in a year	2.5.fO Cost incurred during what stage?	2.5.gO Specify cost item	2.5R Remarks		

*use the back of the form or a clean sheet if the items exceed the available slots in this section.



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
ECONOMIC PROFILE (Per Household)**

1.6. Revenue from Livestock and Poultry

1.6.a Types or kind of livestock (species)	1.6.b Grazing area (ha.)	1.6.c Unit of measure	1.6.d Volume sold per year	1.6.e Volume consumed per year	1.6.f Price per unit	1.6.g Value	1.6.h Specific site/ location/ landmark of grazing areas	1.6.i Specific activities conducted in the livelihood	1.6.j Season/ period of livelihood	1.6.k No of household members involved in the activity	1.6.l Marketing agents	1.6.m Market location	1.6.n Type of payment	1.6.o Remarks (Male/Female)
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2.6. Costs incurred from livestock and poultry industry

Materials						Equipment					Labor					Transportation					Others					2.6R Remarks						
2.6.aM Items	2.6.bM Total Annual Cost	2.6.cM Unit	2.6.dM Average price per unit	2.6.eM Number of times cost is incurred in a year	2.6.fM Cost incurred during what stage?	2.6.aE Items	2.6.bE Total Annual Cost	2.6.cE Unit	2.6.dE Average price per unit	2.6.eE Number of times cost is incurred in a year	2.6.fE Cost incurred during what stage?	2.6.aL Items	2.6.bL Total Annual Cost	2.6.cL Unit	2.6.dL Average price per unit	2.6.eL Number of times cost is incurred in a year	2.6.fL Cost incurred during what stage?	2.6.aT Items	2.6.bT Total Annual Cost	2.6.cT Unit	2.6.dT Average price per unit	2.6.eT Number of times cost is incurred in a year	2.6.fT Cost incurred during what stage?	2.6.aO Items	2.6.bO Total Annual Cost		2.6.cO Unit	2.6.dO Average price per unit	2.6.eO Number of times cost is incurred in a year	2.6.fO Cost incurred during what stage?	2.6.gO Specify cost item	

*use the back of the form or a clean sheet if the items exceed the available slots in this section.



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
ECONOMIC PROFILE (Per Household)**

1.7. Revenue from Forestry (Non-timber forest product)

1.7.a Type of non-timber forest product	1.7.b Species	1.7.c Area (ha.)	1.7.d Unit of measure	1.7.e Volume sold per year	1.7.f Volume consumed per year	1.7.g Price per unit	1.7.h Value	1.7.i Specific site/ location/ landmarks	1.7.j Gathering/ harvesting/ collection/ planting/ production method/ activity	1.7.k Season/ period of gathering/ harvesting/ collection/ planting	1.7.l No of people & household members involved in the activity	1.7.m Marketing agents	1.7.n Market location	1.7.o Type of payment	1.7.p Remarks (Male/Female)
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2.7. Costs incurred from forestry-based livelihood (Non-timber forest product)

Materials						Equipment						Labor						Transportation						Others						2.7R Remarks		
2.7.aM Items	2.7.bM Total Annual Cost	2.7.cM Unit	2.7.dM Average price per unit	2.7.eM Number of times cost is incurred in a year	2.7.fM Cost incurred during what stage?	2.7.aE Items	2.7.bE Total Annual Cost	2.7.cE Unit	2.7.dE Average price per unit	2.7.eE Number of times cost is incurred in a year	2.7.fE Cost incurred during what stage?	2.7.aL Items	2.7.bL Total Annual Cost	2.7.cL Unit	2.7.dL Average price per unit	2.7.eL Number of times cost is incurred in a year	2.7.fL Cost incurred during what stage?	2.7.aT Items	2.7.bT Total Annual Cost	2.7.cT Unit	2.7.dT Average price per unit	2.7.eT Number of times cost is incurred in a year	2.7.fT Cost incurred during what stage?	2.7.aO Items	2.7.bO Total Annual Cost	2.7.cO Unit	2.7.dO Average price per unit	2.7.eO Number of times cost is incurred in a year	2.7.fO Cost incurred during what stage?		2.7.gO Specify cost item	

*use the back of the form or a clean sheet if the items exceed the available slots in this section.



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
ECONOMIC PROFILE (Per Household)**

1.8. Revenue from Forestry (Timber forest product)

1.8.a Type of timber forest product	1.8.b Species	1.8.c Area (ha.)	1.8.d Unit of measure	1.8.e Volume sold per year	1.8.f Volume consumed per year	1.8.g Price per unit	1.8.h Value	1.8.i Specific site/ location/ landmarks	1.8.j Gathering/ harvesting/ collection/ planting/ production method/ activity	1.8.k Season/ period of gathering/ harvesting/ collection/ planting	1.8.l No of people & household members involved in the activity	1.8.m Marketing agents	1.8.n Market location	1.8.o Type of payment	1.8.p Remarks (Male/Female)
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2.8. Costs incurred in forestry-based income source (Timber forest product)

Materials						Equipment						Labor						Transportation						Others						2.8R Remarks		
2.8.aM Items	2.8.bM Total Annual Cost	2.8.cM Unit	2.8.dM Average price per unit	2.8.eM Number of times cost is incurred in a year	2.8.fM Cost incurred during what stage?	2.8.aE Items	2.8.bE Total Annual Cost	2.8.cE Unit	2.8.dE Average price per unit	2.8.eE Number of times cost is incurred in a year	2.8.fE Cost incurred during what stage?	2.8.aL Items	2.8.bL Total Annual Cost	2.8.cL Unit	2.8.dL Average price per unit	2.8.eL Number of times cost is incurred in a year	2.8.fL Cost incurred during what stage?	2.8.aT Items	2.8.bT Total Annual Cost	2.8.cT Unit	2.8.dT Average price per unit	2.8.eT Number of times cost is incurred in a year	2.8.fT Cost incurred during what stage?	2.8.aO Items	2.8.bO Total Annual Cost	2.8.cO Unit	2.8.dO Average price per unit	2.8.eO Number of times cost is incurred in a year	2.8.fO Cost incurred during what stage?		2.8.gO Specify cost item	

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**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
ECONOMIC PROFILE (Per Household)**

1.11. Revenue from Other Industries

1.11.a Type of industries	1.11.b Revenue in a month	1.11.c Number of times in a year	1.11.d Remarks	2.11.a Total monthly expenditure in Industry-based source of revenue	2.11.b Number of times expenditure is incurred in a year	2.11.c Remarks (Male/Female)
1. Manufacturing				1.		
2. Electricity, Gas, and Water				2.		
3. Construction				3.		
4. Tourism				4.		
5.				5.		

2.11. Costs incurred in other industries

1.12. Revenue from service-based industry

1.12.a Types of services	1.12.b Revenue in a month	1.12.c Number of times in a year	1.12.d Remarks	2.12.a Total monthly expenditure from service-based sources of revenue	2.12.b Number of times expenditure is incurred in a year	2.12.c Remarks (Male/Female)
1. Wholesale & Retail Trade, Repair of Motor Vehicles, Motorcycles & Personal & Household Goods						
2. Hotels and Restaurants						
3. Transport, Storage and Communication						
4. Financial Intermediation						
5. Public Administration / Government employee						
6. Education						
7. Health, Wellness, and Social Work						
8. Private Households with Employed Persons						
9. Private employment						
10.						

2.12. Costs incurred in service-based industry

1.13. Revenue from other sources

1.13.a Other revenue sources	1.13.b Revenue in a month	1.13.c Number of times in a year	1.13.d Remarks	2.13.a Total monthly expenditure from service-based livelihood	2.13.b Number of times expenditure is incurred in a year	2.13.c Remarks (Male/Female)
1. Remittances (local)						
2. Remittances (abroad)						
3. Retirement						
4. 4Ps beneficiary						
5.						

2.13. Costs incurred from other revenue sources

*use the back of the form or a clean sheet if the items exceed the available slots in this section.



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
ECONOMIC PROFILE (Per Household)**

3. Type of Expenditures

	Household Expenditures (in a month)			
	3.1. Total amount per month	3.2 Number of months expenditure is incurred in a year	3.3 Annual expenditure per item	3.4. Remarks
1. Food				
2. Alcoholic beverages				
3. Tobacco				
4. Clothing and footwear				
5. Furnishings, household equipment and routine household needs				
6. Health				
7. Housing				
8. Water				
9. Electricity				
10. Gas and other fuels				
11. Transportation				
12. Communication				
13. Recreation and culture				
14. Education				
15. Accommodation services				
16. Taxes				
17. Miscellaneous goods and services (e.g. occasional expenses)				
18. Other expenditure (e.g. interest payments)				

*use the back of the form or a clean sheet if the items exceed the available slots in this section.



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
HEALTH, HAZARD & INSTITUTIONAL**

4. Natural Hazards:

4.1. Climate risks and disasters:	4.2. Number of occurrences in the last 5 years	4.3. Compared to the previous years, in terms of frequency, has it : 1- Increased 2- Remained stable/the same 3- Decreased	4.4. Compared to the previous years, in terms of intensity, has it : 1- Increased 2- Remained stable/the same 3- Decreased	4.5. Were you affected by the following?; Yes - 1 No - 2	4.6. Estimated average cost of damage
a. Flooding					
b. Landslides					
c. Typhoon					
d. Drought					
e. Earthquake					
f. Wildfire					
g. Tsunami					
h. Storm surge					
i.					
j.					



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
HEALTH, HAZARD & INSTITUTIONAL**

5. Housing, Sanitation, and Health

**5.1 Housing Status
(Please Check)**

- Owned/ With claims
- Rented
- Being Occupied for free with consent of Owner
- Being Occupied for free without consent of Owner
- Others, please specify _____

**5.2 Housing Unit Material
(Please Check)**

- Concrete/ Brick
- Half concrete/ bricks & half wood
- Wood
- Galvanized Iron/ Aluminum
- Light materials (Bamboo, Nipa, Anahaw, Cogon, Sawali)
- Others, please specify _____

**5.3 Source of Water
(Please check)**

- River
- Spring
- Deep Well
- Rainfed
- Small water impounding facility
- Irrigation/ Local Water System
- Others, specify _____

5.4 Lot Ownership Status

- Owned/ With claims
- Rented
- Being Occupied for free with consent of Owner
- Being Occupied for free without consent of Owner
- Others, please specify _____
- Owned/ With claims

Health Status

**5.5 Causes of illness in the previous year
(Morbidity)**

- Acute Respiratory Infection
- Acute Lower Respiratory Tract Infection & Pneumonia
- Bronchitis/Bronchiolitis
- Hypertension
- Acute Watery Diarrhea
- Influenza
- Urinary Tract Infection
- TB Respiratory
- Injuries
- Disease of the Heart
- Others, specify: _____

**5.6 Causes of death in the previous year
(Mortality)**

- Diseases of the heart
- Diseases of the vascular system
- Pneumonia
- Malignant neoplasms/cancers
- All forms of tuberculosis
- Accidents
- Chronic obstructive pulmonary disease allied conditions
- Diabetes mellitus
- Nephritis/nephritic syndrome
- Other diseases of respiratory system (e.g., asthma)
- Others, specify: _____

5.7 Waste Disposal

- 5.3.a Solid waste (biodegradable)
 - Composting
 - Burning
 - Burying
 - Local collection system
 - Others, specify _____
- 5.3.a Solid waste (non-biodegradable)
 - Burning
 - Burying
 - Local collection system
 - Others, specify _____
- 5.3.c Toxic waste (describe): _____

5.8 Type of Toilet Facilities

- water-sealed septic tank used exclusively by household
- water-sealed septic tank shared to others
- water-sealed other depository type used exclusively by household
- water-sealed other depository type shared to other household
- closed pit
- open pit
- others, specify _____



**SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)
HEALTH, HAZARD & INSTITUTIONAL**

6. Physical Infrastructures within the barangay. (Please check)

- 6.1. Access to road networks and other support facilities (Yes/No)
- a. Tourism establishments Yes No
 - b. Irrigation facilities Yes No
 - c. Hospitals Yes No
 - d. Health centers Yes No
 - e. Evacuation centers Yes No
 - f. Community/Barangay/
Tribal hall Yes No
 - g. Chapel/Church/Mosque/Worship place Yes No
 - h. School/Day care center Yes No
 - i. Sports center (e.g. basketball court) Yes No
 - j. Barangay park Yes No

7. Perception rating of the respondent on:

(scale of 1-5, with 5 as the highest)

- a. Importance of the PA to household welfare and well-being _____
- b. Effectiveness of PA management _____
- c. Local government programs on PA _____
- d. Government support to community-based park protection _____
- e. Private sector support to PA management _____
- f. Delivery of social services _____

8. Institutional (Please check)

- 8.1. Knowledge of local policies (Yes/No)
- a. Local environment Code Yes No
 - b. Eco-tourism control Yes No
 - c. CLUP/CRMP Yes No
 - d. Customary laws/Tribal justice Yes No

8.2. Knowledge and participation Local PA management structures (Yes/No)

- a. PAMB
 - i. Knowledge/ awareness Yes No
 - ii. Participation Yes No
- b. Community/Barangay-based Protection/ Volunteer groups
 - i. Knowledge/ awareness Yes No
 - ii. Participation Yes No
- c. POs
 - i. Knowledge/ awareness Yes No
 - ii. Participation Yes No
- d. Tribal Organizations
 - i. Knowledge/ awareness Yes No
 - ii. Participation Yes No

8.3. Knowledge of Tenurial Instruments in the area

- CADT ISF PCBRMA
- CADC CBFMA FLA
- CALT Individual titles MDA
- ICCA ARCs Others, specify: _____

- 8.4. Knowledge of the existence of active tribal/traditional leadership (IPs) Yes No
- 8.5. Awareness on cultural zones and ritual practices Yes No
- 8.6. Protected area threats Yes No
 - a. Knowledge of the following (within the barangay/PA)
 - i. Expansion of housing, settlements, agriculture, livestock, industrial activities, commercial and/or transportation/utilities infrastructure into natural ecosystems Yes No
 - ii. Illegal collection of terrestrial wildlife (such as endangered animals and plants) Yes No
 - iii. Illegal logging or wood collection (timber or fuelwood) Yes No
 - iv. Illegal collection of aquatic resources (using explosives, poisons; collection of corals, giant clams or other endangered species) Yes No
 - v. Commercial fishing in municipal waters Yes No
 - vi. Invasive and other problematic species and genes Yes No
 - vii. Human intrusion and disturbance within the protected area (such as recreational activities) Yes No
 - viii. Pollution entering or generated within the protected area (solid and liquid wastes) Yes No
 - ix. treasure hunting/small scale mining/quarrying Yes No
 - ix. Others, specify: _____ Yes No
 - b. Hotspots (illegal activities)
 - i. Entry points, specify: _____
 - ii. Exit points, specify: _____
 - c. Hotspot for insurgency Yes No



SOCIO-ECONOMIC ASSESSMENT MONITORING SYSTEM (SEAMS)

CERTIFICATION

I hereby certify under oath that the above information are true and correct to the best of my knowledge and belief.

Printed name and signature of Household Head/ Respondent

Date

Printed name and signature of Interviewer/Enumerator

Printed name and signature of Team Leader

(In case the household head or members refused to be interviewed)

Noted By:

Printed name and signature of Barangay Representative during the Survey

Printed name and signature of Interviewer/Enumerator

Please attach map scale 1:50,000 showing the exact or approximate location of the homelot/farmlot within the said protected area



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
REGION _____

SOCIO-ECONOMIC ASSESSMENT AND MONITORING SYSTEM (SEAMS)

FORM 2
Summary per Barangay

Name of Protected Area : _____
Municipality : _____
Barangay : _____

A. Demographic Information:

Name of Household Head	Sex		Total Household Member (including household head)			Total Area Farmlot (ha)	Total Area Homelot (ha)	Total Area Other uses (ha)	Total Area Occupied (ha)	Date of Occupancy	Remarks
	Male	Female	Male	Female	Total						

Note: All pages of the form should be signed by the Team Leader



SOCIO-ECONOMIC ASSESSMENT AND MONITORING SYSTEM (SEAMS)
FORM 2 – ECONOMIC PROFILE

B. Income source information:

Name of Household Head	Ecotourism					Fisheries (Saltwater)						Fisheries (Freshwater)					
	Type of revenue source	Source location.	Total revenue from ecotourism	Total cost from ecotourism	Net revenue from ecotourism	List of species caught	Source location	Average fishing hours spent (Catch effort)	Total revenue from fishery	Total cost from fishery	Net revenue from saltwater fishery	List of species caught	Source location	Average fishing hours spent (Catch effort)	Total revenue from fishery	Total cost from fishery	Net revenue from freshwater fishery



SOCIO-ECONOMIC ASSESSMENT AND MONITORING SYSTEM (SEAMS)
FORM 2 – ECONOMIC PROFILE

Income source information (cont'):

Name of Household Head	Trading, Processing and Manufacturing					Agriculture						Livestock and Poultry					
	List of species traded, processed, manufactured	Source location	Total revenue from trading, processing and manufacturing of aquatic resource	Total cost from trading, processing and manufacturing of aquatic resource	Net revenue from trading, processing and manufacturing of aquatic resource	List of crops	Source location	Total cultivated area (ha)	Total revenue from agriculture	Total cost from agriculture	Net revenue from agriculture	List of species	Source location	Total grazing area (ha)	Total revenue from livestock and poultry income source	Total cost from livestock and poultry income source	Net revenue from livestock and poultry income source



SOCIO-ECONOMIC ASSESSMENT AND MONITORING SYSTEM (SEAMS)
FORM 2 – ECONOMIC PROFILE

Income source information (cont'):

Name of Household Head	Non-Timber Forest Products					Timber Forest Products						Resource Use and/or Wildlife Collection				
	List of species	Source location	Total revenue from non-timber forest products	Total cost from non-timber forest products	Net revenue from non-timber forest products	List of species	Source location	Total volume of timber gathered/harvested	Total revenue from timber forest products	Total cost from timber forest products	Net revenue from timber forest products	List of species being collected/gathered	Source location	Total revenue from resource use and wildlife collection	Total cost from resource use and wildlife collection	Net revenue from resource use and wildlife collection

Noted by:

PENRO/ CENRO

Attested by:

Team Leader

Date

Prepared by: Team Members



SOCIO-ECONOMIC ASSESSMENT AND MONITORING SYSTEM (SEAMS)
FORM 2 – ECONOMIC PROFILE

Income source information (cont'):

Name of Household Head	Mining and Quarrying Industry					Other Industries			Services			Other revenue sources (i.e. remittances)		
	Type of revenue source	Source location	Total revenue mining and quarrying	Total cost from mining and quarrying	Net revenue from mining and quarrying	Total revenue from other industries	Total cost from other industries	Net revenue from other industries	Total revenue from services	Total cost from services	Net revenue from services	Total revenue from other revenue sources	Total cost from other revenue sources	Net revenue from other revenue sources

Noted by:

Attested by:

Prepared by: Team Members

_____ PENRO/ CENRO

_____ Team Leader

_____ Date



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
REGION _____

SOCIO-ECONOMIC ASSESSMENT AND MONITORING SYSTEM (SEAMS)

FORM 3
Summary of Municipality

Name of Protected Area : _____
Municipality : _____

A. Demographic Information:

Name of Barangay	Household Heads			Household Members			Total Area Occupied (ha)				Total No. of Qualified Tenured Migrants
	Male	Female	Total	Male	Female	Total	Homelot	Farmlot	Other use	Total	

Noted by:

PENRO/ CENRO

Attested by:

Team Leader

Date

Prepared by: Team Members

CODE BOOK: GUIDE IN FILLING-OUT OF SURVEY FORMS AND ENCODING OF DATA GATHERED

Housing material code	Housing Unit Material
1	Concrete/brick
2	Half concrete/bricks & half wood
3	Wood
4	Galvanized iron/aluminum
5	Light materials (bamboo, nipa, anahaw, cogon)
6	Others, please specify

Water source code	Water source
1	River
2	Spring
3	Deep well
4	Rainfed
5	Small water impounding facility
6	Irrigation/local water system
7	others, specify

Waste disposal code	Waste disposal
1	Composting
2	Burning
3	Burying
4	Local collection system
5	Others, specify

Toilet type	Toilet type
1	Water-sealed-septic tank, used exclusively by the household
2	Water-sealed-septic tank, shared with other households
3	Water-sealed-other depository, used exclusively by the household
4	Water-sealed-other depository, shared with other households
5	Closed-pit
6	Open-pit
7	Others