E4582 REV



PHILIPPINE RURAL DEVELOPMENT PROGRAM

INTEGRATED ENVIRONMENTAL AND SOCIAL SAFEGUARDS FRAMEWORK

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List of Acronyms

ADSDPP	-	Ancestral Domain Sustainable Development Protection Plan
AFMP	-	Agriculture and Fisheries Modernization Plan
CFAD	-	Community Fund for Agricultural Development
BP	-	Business Plan
CNC	-	Certificate of Non-Coverage
DA	-	Department of Agriculture
DENR	-	Department of Environment and Natural Resources
EA/SA	-	Environmental Assessment/Social Assessment
ECAs	-	Environmentally Critical Areas
ECC	-	Environmental Compliance Certificate
ECPs	-	Environmentally Critical Projects
EIA	-	Environmental Impact Assessment
EIS	-	Environmental Impact Statement
EMB	-	Environmental Management Bureau
EMFG	-	Environmental Management Framework and Guidelines
EPF	-	Enterprise Project Fund
ESMP	-	Environmental and Social Management/Mitigation Plan
ESS	-	Environmental and Social Safeguards
FFS	-	Farmers Field School
FPIC	-	Free and Prior Informed Consent
FS	-	Feasibility Study
GPP	-	Grievance Point Person
GRM	-	Grievance Redness Mechanism
ICC	-	Indigenous Cultural Community
IEE	-	Initial Environmental Examination
IP	-	Indigenous People
IPM	-	Integrated Pest Management
IPRA	-	Indigenous People Right Act
LARRF	-	Land Acquisition, Rehabilitation and Resettlement Framework
MAO	-	Municipal Agriculture Office
MENDRO	-	Municipal Environment and Natural Resource Office
MLGU	-	Municipal Local Government Unit
MPDO	-	Municipal Planning and Development Officer
MPMIU	-	Municipal Program Management and Implementation Unit
MRDP	-	Mindanao Rural Development Program 2
NCIP	-	National Commission on Indigenous Peoples
NGO	-	Non-Government Organization
NPCO	-	National Program Coordination Office
NRM	-	Natural Resource Management
PAO	-	Provincial Agriculture Office
PAP	-	Project Affected Person

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PCIP	-	Provincial Commodity Investment Plan
PEISS	-	Philippine Environmental Impact Statement System
PG	-	Proponent Group
PGENRO	-	Provincial Government Environment and Natural Resource Office
PLGU	-	Provincial Local Government Unit
PO	-	Peoples' Organization
PPDO	-	Provincial Planning and Development Officer
PPMIU	-	Provincial Program Management and Implementation Unit
PRDP	-	Philippine Rural Development Program
PSO	-	Program Support Office
ROW	-	Right of Way
RPAB	-	Regional Program Advisory Board
RPCO	-	Regional Program Coordination Office
SALT	-	Sloping Agricultural Land Technology
WB	-	Word Bank

1 Introduction

1.1 The Program

The Philippine Rural Development Program (PRDP) is a six-year national government development platform aimed at contributing towards achieving an inclusive, value-chain oriented, and climate resilient agriculture and fisheries sector. Specifically, PRDP aims to provide an operational Agriculture and Fisheries Modernization Plan (AFMP) for an integrated technical support service delivery at the local and national levels, build strategic network of rural logistics infrastructure within priority value chains in targeted program areas, strengthen and develop viable rural enterprises through efficient supply/value chain of key agricultural and fishery products in targeted program areas, implement and model innovations towards more effective and efficient institutional support systems for program implementation, and institutionalize stakeholder engagement.

The thrust of PRDP to develop a market-oriented and climate-resilient agriculture and fishery sector will be articulated through its four (4) components: i) Local and National Level Planning (I-PLAN), ii) Infrastructure Development (I-BUILD), iii) Enterprise Development (I-REAP) and, iv) Project Implementation Support (I-SUPPORT). Subprojects implemented under components Infrastructure Development (I-BUILD) and Enterprise Development (I-REAP) undergo various screenings and reviews such that project implementation accord to the governing principles and guidelines for development projects.

1.2 Environmental and Social Safeguards

The Environmental and Social Safeguards (ESS) is one of the program support unit of the Mindanao Rural Development Program (MRDP2) that will be adopted in PRDP to ensure that subprojects to be implemented are not only technically, economically and financially viable, but are also environmentally and socially sound and sustainable.

The ESS operates according to the provisions of the Philippine Environmental Impact Statement Law (Presidential Decree 1586), the Philippine Indigenous Peoples Rights Act (Republic Act 8371), the Right of Way Acquisition Law (Republic Act 8974) and their implementing rules and regulations and the operational policies of the World Bank on Environmental Assessment (Operational Policy/Bank Policy 4.01), Natural Habitats (Operational Policy/Bank Policy 4.04), Pest Management (Operational Policy 4.09), Indigenous Peoples (Operational Policy/Bank Policy 4.10) and Involuntary Resettlement (Operational Policy/Bank Policy 4.12).

Aimed at ensuring that the people and the environment are not adversely affected by the projects, the ESS requirements encompass all project components. All proposed subprojects, particularly under Infrastructure Development (I-BUILD) and Enterprise Development (I-REAP)

components, shall undergo environmental screening conforming to the environmental guidelines. Project implementation will also determine if construction activities cause to displace and affect persons such that appropriate resettlement, compensation and rehabilitation plans in accordance to land acquisition, resettlement and rehabilitation framework are being formulated for the project affected persons. Moreover, the ESS involves project affected rural communities, particularly involving the indigenous peoples and communities, in the planning and design of subproject that accord with the provisions in the Indigenous Peoples (IP) policy framework.

1.3 Institutional Arrangements for Environmental and Social Safeguards

Municipal Program Management and Implementation Unit (MPMIU) – The MPMIU shall have as its members the Municipal Planning and Development Officer (MPDO), the Municipal Engineer or anyone who is an engineer by profession, and another one who is an environmental practitioner or has an environmental assessment/management background or has undergone basic training in environmental safeguards. The MPMIU shall have the following responsibilities: The MPMIU shall:

- Help communities comply with the safeguards requirements
- Prepare subprojects according to this Framework
- Submit a monthly, quarterly and annual Safeguards Compliance and Impact Monitoring Report to PPMIU

Provincial Program Management and Implementation Unit (PPMIU) – The PPMIU shall likewise have as its members, the Provincial Planning and Development Officer (PPDO), the Provincial Engineer or anyone who is an engineer by profession, and the Provincial Environmental Officer or anyone who is an environmental practitioner or has an environment assessment/management background or has undergone basic training in environmental safeguards. The PPMIU shall:

- Help MLGU comply with the safeguards requirements
- Prepare subprojects according to this Framework
- Forward all monthly, quarterly and annual Safeguards Compliance and Impact Monitoring Reports to RPCO

Regional Program Coordination Office (RPCO) – The RPCO shall designate/hire one Environmental and Social Safeguards Unit Head, one Social Safeguards Specialist, one Environmental Safeguards Specialist and a team from Infrastructure Development(I-BUILD) and Enterprise Development (I-REAP) who shall undergo training in environmental and social safeguards aspects of subproject preparation, review and approval and alert RPAB of any systemic compliance issues or any program-wide operational policy issues affecting the Program's ability to comply with environmental and social safeguards requirements. The RPCO shall:

- Provide assistance to the LGUs/project proponents in the conduct of safeguards activities and the preparation of safeguards documents;
- Provide review and clearance of subprojects on the safeguards aspects (Annex D provides guidance in reviewing the safeguards aspects of subprojects).
- Consolidate all Compliance and Impact Monitoring Reports from LGUs.

Program Support Office (PSO) – The PSO shall designate/hire one Environmental and Social Safeguards Unit Head, one Social Safeguards Specialist and one Environmental Safeguards Specialist who shall work very closely with the Infrastructure Development (I-BUILD) and Enterprise Development (I-REAP) teams. The PSO shall:

- Provide training and technical assistance to RPCO safeguards specialists and engineering team as well as selected Environmental and Social Safeguards focal persons of PPMIUs and MPMIUs;
- Review and clear compliance of subprojects before submitting them to the World Bank for no objection.
- Consolidate all Compliance and Impact Monitoring Report from RPCOs and submit them to the NPCO.

National Program Coordination Office (NPCO) – The NPCO shall designate/hire one Environmental and Social Safeguards Unit Head, one Environmental and Social Safeguards Alternate Unit Head, one Social Safeguards Specialist and one Environmental Safeguards Specialist who shall consolidate all Compliance and Impact Monitoring Reports from various PSOs and alert NPAB of any systemic compliance issues or any program-wide operational policy issues affecting the Program's ability to comply with environmental and social safeguards requirements that were not resolved at regional level.

For subprojects with concerns on IPs, the NPCO shall seek the involvement of the NCIP as coimplementer of PRDP particularly with subprojects that will be situated within any IP Ancestral Domain claims. The NPCO shall enter into an agreement with NCIP, spelling out, among others the latter's role in: (a) ensuring that IPs participate in the Local and National Level Planning (I-PLAN) activities and that their interests and concerns are considered in the preparation of AFMPs and the PCIPs; and (b) facilitating compliance of subprojects involving IP communities, with the requirements of IPRA as described in this Framework.





Table 1-1. Environmental and social safeguards activities and responsible units below outlines the sequence of safeguards-related activities and their lead or responsible units, at various stages in the subproject cycle.

Stage in SP Preparation	Safeguards Activity	Responsible Unit
Subproject Identification/Validation	Conduct Environmental and Social Screening	Subproject proponent with assistance from PLGU and RPCO ESS
	Conduct IP Community Information Campaign, if required	
Feasibility Study Preparation	Conduct Rapid Environmental and Social Assessment (EA and SA)	Subproject proponent with assistance from PLGU and RPCO ESS
	Conduct IP Community Consultation, if required	
	Prepare Environmental and Social Management/Mitigation Plan (ESMP)	Subproject proponent with assistance from PLGU and RPCO ESS
	Conduct PAP Survey	Subproject proponent
	Secure IP Endorsement	Subproject proponent
Detailed Engineering and Program of Works Preparation	Incorporation of relevant ESMP measures into the design and program of works	Subproject proponent
	ROW acquisition and documentation	Subproject proponent
	PAP resettlement and/or compensation	Subproject proponent
Review and Approval Procurement (Bidding, Awarding)	Safeguards Review and issuance of clearance	RPCO/PSO, ESS, Infrastructure Development(I-BUILD) and Enterprise Development (I- REAP)Teams

Table 1-1. Environmental and social safeguards activities and responsible units

Construction	Compliance Monitoring	PLGU and RPCO ESS, Infrastructure Development(I- BUILD) and Enterprise Development (I-REAP)
Turnover	Compliance Evaluation	RPCO/PSO, ESS, Infrastructure Development(I-BUILD) and Enterprise Development (I- REAP)Teams

2 Environmental Management Framework and Guidelines for PRDP

2.1 Environmental Impact of Subprojects

Of the four PRDP components, Infrastructure Development (I-BUILD) and Enterprise Development (I-REAP) are the ones with on-the-ground subprojects most likely to bring about environmental impact. The menu of eligible infrastructure interventions for Infrastructure Development (I-BUILD) will be the same as that of PRDP, but with a wider geographical reach and augmented with fisheries-related support infrastructure and facilities such as fish landings.

Enterprise Development, on the other hand, will fund similar interventions provided under the CFAD and NRM components of MRDP2. These would include under the Enterprise Development (I-REAP) component, community livelihood subprojects involving crop, fishery and animal production and establishment and operation of common service facilities in production, postharvest and marketing; and natural resource management interventions such as mangrove rehabilitation, marine sanctuary establishment, artificial reef establishment, stream bank stabilization measures, upland reforestation, and aqua-silviculture. Most activities/sub-projects are small-scale with localized, manageable and temporary environmental impacts and are not covered by the existing Philippine Environmental Impact Statement System (PEISS)¹. However, some while they are non- environmentally-critical may be located in critical areas² and hence may be covered by the PEISS.

This Environmental Management Framework and Guidelines (EMFG) will guide the screening, preparation, review and approval of Infrastructure Development (I-BUILD) and Enterprise Development (I-REAP) subprojects.

¹Under DENR Administrative Order 2003-30, these are "Category D" Projects or Projects unlikely to cause adverse environmental impacts (Sec. 4.5, DAO 2003-30). Projects classified under Category D may secure a Certificate of Non-Coverage (CNC). The Environmental Management Bureau (EMB-DENR), however, may require such projects or undertakings to provide additional environmental safeguards as it may deem necessary (Sec. 4.6, DAO 2003-30).

² Under DENR Administrative Order 2003-30, these are "Category B" Projects, or Projects that are not categorized as Environmentally Critical Projects (ECPs), but which may cause negative environmental impacts because they are located in Environmentally Critical Areas (ECAs) (Sec. 4.5, DAO 2003-30).

2.2 Environmental Safeguards Systems

The EMFG will provide four layers of environmental safeguards to the Project. These are: (i) the adoption of general policies pertaining to the types and location of developments that can be pursued by the LGUs; (ii) the conformance of individual subprojects to technical guidelines and specifications; (iii) the screening and review under the Philippine EIS system; (iv) the environmental and social assessments (EA/SA) resulting in the environmental and social management/mitigation plan (ESMP) which are undertaken as part of the subproject feasibility studies.

It should be noted that an ESMP is still required for subprojects deemed not covered under the Philippine EIS system. This would ensure that environmental and social impacts for such non-covered subprojects under the Philippine EIS are addressed.

2.2.1 Adoption of Local Environmental Policies

The Project will adopt a set of general policies pertaining to the types and location of infrastructure or development in the project areas. Formulated under PRDP, these policies will guide LGUs on the proper use of the uplands, lowlands, and coastal areas. Participating LGUs are required to adopt the following land use and protection policies:

- a. Gently to moderately sloping grasslands (5-18% slope) may be put to intensive agricultural production that requires seasonal and periodic cultivation using sloping agricultural land technologies (SALT).
- b. Grassland areas with slope gradients of 18-30% if utilized for agricultural production should be utilized only for establishment of orchards and industrial tree plantation.
- c. Grassland/open lands with slope gradients of 30-50% or more shall only be developed into intensive agro-forestry farm or utilized as community forest.
- d. All stream banks starting from 100 meters above sea level up to the highest tributary shall maintain a 50-meter and 20-meter vegetative riparian buffer for riverbanks and creek/stream bank protection, respectively.
- e. Areas utilized for aquaculture/fishpond shall maintain a 50-meter mangrove buffer between the fishpond and open sea for coastal protection.
- f. Existing mangrove forests shall no longer be subjected to alternative land use conversion but shall be maintained in support of fishery production and coastal protection programs.

- g. Establishment of pasture areas shall include planting of shade trees on 20-meter wide strips on both sides of creeks/rivers.
- h. Mudflats on coastal areas covered under NRM subprojects shall be planted to mangrove species.
- i. Remaining forests within area of influence of PRDP subprojects shall be protected from agricultural encroachments, illegal logging and forest product harvesting and hunting; if forests are present within the influence area of FMRs, the concerned LGUs must include a forest protection plan/program in conjunction with the subproject proposal.

2.2.2 Environmental Screening and Review under the Philippine Environmental Impact Statement System (PEISS)

All subprojects are subject to environmental screening under PEISS. Under the PEISS, certain project types that are considered environmentally critical (Table 2-1) and all projects that are located in environmentally critical areas (Table 2-2) are required to prepare an Environmental Impact Statement. The DENR Admin Order (DAO) No 30 Series of 2003 has further defined four categories of projects, based on their type, scale and location. Category A projects are considered environmentally critical projects (ECPs). Category B projects are not considered environmentally critical but are located in environmentally critical areas (ECAs) and are above certain scale or size thresholds. Category C-type projects are environmental enhancements such as wastewater treatment and solid waste management. Lastly, Category D projects are neither environmentally critical types nor located in environmentally critical areas or those that are below not environmentally critical but located in environmentally critical areas and are below certain scale or size thresholds. Category D subprojects are not required to prepare environmental impact statements (EIS). The latest Procedural Manual for DENR DAO 2003-30 specifies the scale or size thresholds below which a non ECP located in ECA would fall under Category D.

Table 2-1. Environmentally Critical Projects (ECPs)

i. Heavy Industries

- a. Non-ferrous metal industries
- b. Iron and steel mills
- c. Petroleum and petro-chemical industries including oil and gas
- d. Smelting plants

ii. Resource Extractive Industries

- a. Major mining and quarrying projects
- b. Forestry projects
 - 1. Logging
 - 2. Major wood processing projects
 - 3. Introduction of fauna (exotic-animals) in public/private forests
 - 4. Forest occupancy
 - 5. Extraction of mangrove products
 - 6. Grazing
- c. Fishery Projects
 - 1. Dikes for fishpond development projects

iii. Infrastructure Projects

- a. Major dams
- b. Major power plants (fossil-fuelled, nuclear fuelled, hydroelectric or geothermal)
- c. Major reclamation projects
- d. Major roads and bridges.
- iv. Golf Course Projects

Reference: Revised Procedural Manual for DAO No. 03-30, citing Proclamation No. 2146 (1981) and Proclamation No. 803 (1996)

Table 2-2. Environmentally Critical Areas (ECAs)

- i. All areas declared by law as national parks, watershed reserves, wildlife preserves and sanctuaries;
- ii. Areas classified as prime agricultural lands;
- iii. Areas frequently visited and/or hard-hit by natural calamities (geologic hazards, floods, typhoons, volcanic activity, etc.)
- iv. Areas of unique historic, archaeological, or scientific interests;
- v. Areas set aside as aesthetic potential tourist spots;
- vi. Areas which are traditionally occupied by cultural communities or tribes;
- vii. Areas which constitute the habitat for any endangered or threatened species of indigenous Philippine Wildlife (flora and fauna);

viii. Areas with critical slopes (slopes of 40% or greater);

- ix. Recharged areas of aquifers;
- x. Water bodies characterized by one or any combination of the following conditions:
 - a. tapped for domestic purposes;
 - b. within the controlled and/or protected areas declared by appropriate authorities;
 - c. which support wildlife and fishery activities.
- xi. Mangrove areas characterized by one or any combination or the following conditions:
 - a. with primary pristine and dense young growth;
 - b. adjoining mouth of major river systems;
 - c. near or adjacent to traditional productive fry or fishing grounds;
- xii. Areas which act as natural buffers against natural erosion, strong winds and storm floods;
- xiii. Coral reef characterized by one or any combination of the following conditions:
 - a. With 50% and above coralline cover;
 - b. Spawning and nursery grounds for fish;
 - c. Which act as natural breakwater of coastlines.

It is expected that most of the Infrastructure Development (I-BUILD) subprojects and Enterprise Development (I-REAP) enterprises will fall within either Category B or D. For Category D subprojects, the proponent group or LGU should also obtain from DENR a certificate of noncoverage (CNC). Category B subprojects are required under PEISS to undergo Initial Environmental Examination (IEE). The IEE, which also contains the environmental and social management plan (ESMP), will serve as the subproject's environmental impact statement (EIS) which will be subject to review by the DENR with the issuance of an environmental compliance certificate (ECC) as the desired outcome

Subproject	Project Size	Category B	Category D
	Parameters		
Roads, new	Length with no critical	> 2km but < 20.0	
construction, widening	slope OR	km, or	< 2 km
	length with critical	>2km but < 10km	
	slope		
Bridges	Length	> 80m but < 10km	Regardless of
			length for foot
			bridges; < 80m
			for other
			bridges
Irrigation (Distribution	Service area	300 hectares but	< 300 hectares
System Only)		<1,000 hectares	
Impounding System or	Reservoir flooded area	< 25 hectares OR	
Flood Control Project		impounded water	
		20 million m ³	
Minor Dams	Reservoir flooded area	< 25 hectares AND <	
	and Water Storage	20 million m ³	
	capacity		
Sea Port, Causeways,	Area to be developed	< 15 hectares	< 1.0 hectares
and Harbors		reclamation OR < 25	(w/o)
		hectares (w/o)	reclamation
		reclamation)	
Rice Mill	Milling Rate	> 1 ton/hr	<1 ton/hr
Poultry	Stock Population	>10,000 heads but <	< 10,000 heads
		100,000 heads	
Pigs/Goat (enclosed)	Stock Population	> 100 heads but <	< 100 heads
		5,000 heads	
Fishery/Aquaculture	Total water spread area	\geq 1 hectare but < 25	< 1 hectare
Projects (inland-based,	to be utilized	hectares	
e.g. lakes, rivers, etc.)			
Fishery/Aquaculture	Total water spread area	≥ 1 hectare but <	< 1 hectare
Projects in water	to be utilized	100 hectares	
bodies (coastal areas)			
	Daily capacity	≥ 15 MT or 5,475	< 15 MT or
Compost/fertilizer		MT annual capacity	5,475 MT
making			annual
			capacity
Agricultural plantation	Area to be planted	EIS: ≥1,000	< 100 hectares
		hectares	
		IEE: ≥100 hectares	
		but	

Table 2-3.Project Parameters for Non-Environmentally Critical Projects inEnvironmentally Critically Areas

Subproject	Project Size	Category B	Category D
	Faidmeters	< 1.000 hostaros	
Agricultural processing	Annual production		< F 000 MT
Agricultural processing	Annual production	EIS: 2 50,000 IVI I	< 5,000 1011
tacilities	сарасіту	IEE: ≥ 5,000 MIT but	
		< 50,000 MT	
Fruit and vegetable	Daily processing	EIS: ≥ 500 Kg	-
processing	capacity	IEE: < 500 Kg	
Processing of dairy	Monthly production	EIS: ≥ 100,000 L	
products	capacity	(liquid) OR	
		≥ 100,000 Kg (solid)	
		IEE: < 100,000 L	
		(liquid) OR <	
		100,000 Kg (solid)	
Coconut processing	Monthly production	EIS: ≥ 25,000 MT	
plants	capacity	IEE: < 25,000 MT	
Animal products	Daily production	EIS: ≥ 10,000 Kg	< 500 Kg
processing (fish/meat	capacity	IEE: ≥ 500 Kg but <	
processing, canning,		10,000 Kg	
slaughterhouses, etc.)			
Other types of food	Annual production	EIS: ≥ 50,000 MT	
(and other food by-	capacity (finished	IEE: < 50,000 MT	
products, additives,	product)		
etc.) processing			
industries			
Leather and related	Daily production of raw	≥ 1 MT (or 25 MT	< 1.0 MT (or 25
industries	hides	per month)	MT per month)
Paper and plastic	Annual production	> 15 000 MT	< 15 000 MT
based products	capacity	2 13,000 WH	< 13,000 WH
Commercial buildings		EIS: ≥ 25,000	< 10.000
and other similar	Area to be utilized	square meters	< 10,000
structures including	Area to be utilized		Square meters
food preservation (e.g.,	(gross/total noor area		UK Kiask turo or
drying, freezing) and	including parking and	square meters but <	Klosk-type or
other methods aside	other areas)	25,000 square	mobile last
from canning		meters	TOOUS
Storage facilities, non-	Area to be utilized		< 10.000
toxic/hazardous	Area to be utilized	≥ 10,000 Square	
materials	(gross/total noor area)	meters	square meters

Table 2-3.Project Parameters for Non-Environmentally Critical Projects inEnvironmentally Critically Areas

The actual screening of subprojects based on the above criteria shall be done by the proponent group or LGU with the assistance from PLGU and/or the RPCO. In doing so and especially for

subprojects that are not listed above, the proponent group or LGU should consult the latest version of the Procedural Manual for DAO 30-2003 to be provided by the RPCO; the latest guidelines prevail in cases of conflict with the above classification guidelines. While no Category A subprojects are expected, in case there is/are subprojects falling under such category, as well as Category B, the proponent LGU shall fill up Inform 1 and submit the same to the concerned regional office of the Environmental Management Bureau (EMB) for evaluation. The World Bank will conduct prior review of subprojects falling under Category A when warranted.

2.2.3 Environmental Guidelines

Each subproject will have to conform to the technical guidelines and specifications prepared for each type of subproject (Annex B). For most common subproject types namely, farm-to-market road, potable water supply and communal irrigation systems, illustrated technical guidelines for environmentally sound design are also provided.

The guidelines also include requirements of other World Bank Policies that are relevant to the subprojects.

• **Pest Management**: DA's Integrated Pest Management (KASAKALIKASAN) Program, shall be introduced if not already in the subproject areas and enhanced if already existing. This is particularly required in the services areas of communal irrigation subprojects and in the influence areas of farm-to-market roads. The project will support the adoption of the IPM program under the KASAKALIKASAN program.

DA's IPM Program underscores the Philippine government's commitment to Agenda 21 of the United Nations Conference on Environment and Development in promoting sustainable agriculture and rural development. The program trains, empowers and develops farmers' skills in making critical and informed decisions towards a more productive, profitable and sustainable crop production system. It employs an experiential learning approach through the Farmer Field Schools (FFSs) to enable farmers to practice IPM.

The IPM training process effectively involves farmers in the field over the entire season of crop production for them to be more engaged and develop their capabilities to discover and hone their acquired scientific management skills. This participatory, experiential and discovery-based learning approach has been highly successful in sustaining FFS farmers to continue to adopt IPM principles and become partner advocates for a healthy rice, corn and vegetable production. The program had a significant shift in agricultural extension exhibiting farming practices with reduced use of insecticides (particularly from toxic to non-toxic), increased insecticide non-users, and reduced frequency of insecticide application. DA has continued to instigate partner LGUs to mobilize local resources and support for IPM which has been instrumental for the program to be sustainable.

The Program will expand and institute DA's IPM standard approach to crop husbandry and pest management, and adopt the existing guidelines in the formulation of Pest Management Plan. This is to ensure that farmers particularly those who operate in the service areas of irrigation projects and those engaged in the production of agri and fishery-based commodities identified along the value chain are knowledgeable on proper land preparation, water and nutrient management and effective insect, pest or weeds control. The Program shall further strengthen the implementation of the existing regulations on the use of agrichemicals and other pesticides, identify banned pesticides and compounds from usage, and formulate mitigating measures to lessen, if not avoid, the hazards to human health and the environment brought by pesticide utilization. It shall collaborate with research institutions and technical experts with whom DA has been partnering for capacity-building activities to ensure full integration of IPM program in the whole production system, including the sustainability of the natural resources and protection of the environment.

- Natural Habitat: The Project will not fund subprojects that are located within or that encroach into any declared or proposed Protected Area of natural habitat. The subproject proponent must show that the farm-to-market roads do not traverse areas of critical natural habitat and that irrigation subprojects do not result in the conversion of areas of natural habitat for use in rice lands or other agricultural uses.
- Forests: The Project will not fund subprojects that may encroach into a forest, except for subprojects involving mangrove rehabilitation, which is eligible for funding under the Project. Any mangrove rehabilitation subproject to be funded under the Project must include measures that address any potential impacts of the subproject on the existing mangrove forest and/or the rights and welfare of local communities that are dependent or traditionally have been accessing the mangrove forests for their livelihood. The Community Based Forest Management (CBFM) model is deemed compliant with this requirement.
- **Physical Cultural Resources**: The Project will not fund subprojects that displace, damage or render, inaccessible or inoperable, sites or structures of cultural or historical significance.
- Safety of Dams: The EMFG will cover only small dams or dams with height lower than or equal to 10 meters, measured as the vertical distance between the lowest point on the dam crest and the lowest point in the original streambed measured at the toe of the dam. Subprojects involving small dams shall have the following additional requirements.
 - a) The Dam Engineering Design should be done and/or approved by a qualified engineer,
 - b) The construction of dam shall be supervised by a qualified engineer,
 - c) The environmental assessment section of the feasibility studies of subprojects involving dams shall include a brief risk assessment of dam failure and impacts on the environment and on downstream communities and assets, with corresponding mitigating measures reflected in the ESMP,
 - d) A dam safety plan shall be prepared. The plan shall address not only the risk

of dam breach but also other safety hazards at the dam facility, including measures against accidental drowning at dam sites, and

e) All other applicable requirements for processing subprojects as provided in this EMFG.

Subprojects involving construction of large dams defined herein as dams that have height of more than 10 meters but less than 15 meters in height, or those that would depend on existing large dams or large dams under construction shall not be processed under this EMFG. Such dams would require higher levels of capacities among LGUs to manage and address issues involving high dams, more project financing and longer gestation/preparation time. Hence, the processing of these subprojects would require specific steps different from the usual subproject processing system already established in MRDP2 and to be adopted in PRDP. In view of these, the subprojects shall instead be processed according to the procedures described in the World Bank's OP/BP 4.37 on Dam Safety. These subprojects shall also undergo full independent Environmental Impact Assessments.

Subproject proponents (MLGUs, PLGUs or proponent groups) must consult with these guidelines when conceptualizing and preparing their subprojects. During the safeguards review/appraisal by RPCO, the subproject location, design and other documentary requirements will be checked for conformance to and/or compliance with the applicable guidelines.

2.2.4 Environmental and Social Management Plan

All Infrastructure Development (I-BUILD) and Enterprise Development (I-REAP) subprojects shall undergo rapid environmental and social assessments as part of their feasibility studies and Business Plan (BP). The environmental and social assessments (which form part of the feasibility study reports) should contain sufficient information about the environmental and social conditions of the subproject site and allow the proponent to prepare the Environmental and Social Management or Mitigation Plans (ESMPs). Annex C outlines the minimum information requirements of the Environmental and Social Assessments in the Subproject Feasibility Study Report. The ESMPs should be submitted as part of the project proposal package along with the Feasibility Study reports and other safeguards documentary requirements. For those subprojects not covered under PEISS, the ESMP shall be a simple standalone matrix containing:

- a. The issues or impacts of the subproject;
- b. Their brief assessments or qualifications of their significance given the site's environmental conditions;
- c. The proposed mitigation measures, if there are any that are needed; and,

- d. The means of implementation of the measures which could be either of the following:
 - i. Engineering design specification the measure will be incorporated in the engineering design
 - ii. Program of work the measure shall be included in the program of work
 - iii. Contract the measure shall be part of the construction contract;
 - iv. O&M as part of the LGU's operation and maintenance program;
 - v. IP policy framework; and,
 - vi. Land acquisition, rehabilitation and resettlement framework.

ESMP templates have been developed for a generic subproject and those that were frequently proposed under PRDP subprojects such as farm-to-market roads, communal irrigation and potable water supply (See Annex D). All IEEs/EIAs and ESMPs shall be disclosed at the PRDP Website at least one week prior to the issuance of Safeguards Clearance by the RPCO/PSO.

For subprojects covered under PEISS, the ESMP (Annex E) will be part of the IEE/EIA and will follow the DENR-prescribed format, provided that the same should also address all the safeguards policy requirements in this Framework.

2.3 Environmental Monitoring

Compliance with the safeguards requirements and ESMP measures by the subproject proponent and any actual environmental and social issues associated with the subproject that may crop up during the course of subproject preparation, construction and operation will be periodically monitored. The subproject proponent is required to submit every month a Compliance and Impact Monitoring Report to the RPCO using the form provided in Annex F.

2.4 Assessment of PRDP Year 1 Subprojects

The PRDP Year 1 (Annex A) subprojects to be implemented will include those which were proposed in the supposed PRDP additional financing and CPRDP. Environmental and social safeguards requirement of Year 1 subprojects will be prepared, reviewed and approved by the DA following the existing PRDP Environmental Framework and Guidelines with respect to their technical feasibility, economic viability and environmental soundness. Subproject's environmental soundness, i.e. well-managed environmental impacts, its design, location and implementation, should be formulated according to the environmental guidelines as set forth in this framework.

At the PLGU level, environmental screening of subprojects should determine the subproject classification according to Presidential AO No. 42 and DAO 2003-30. Once their classification is

known, appropriate environmental assessment method and document will be complied for the application of an Environmental Compliance Certificate (ECC), if covered by the PEISS, or a Certificate of Non-Coverage (CNC), if not covered by PEISS, whichever is appropriate. For subprojects classified as Category A and B, the PAO/MAO/PGENRO/MENRO shall fill up INFORM 1 and submit the same to the Regional Environmental Management Bureau (EMB) for ECC issuance.

It is anticipated that most Year 1 subprojects will fall under Category D or projects that are not covered by the PEISS. In which case, subproject proponent may secure a CNC.

3 Indigenous Peoples Policy Framework

3.1 Rationale

PRDP will likely cover areas where indigenous cultural communities or indigenous peoples (ICC/IP) are present. There is thus a need to involve ICC/IPs in the regional and provincial level planning as well as the preparation and implementation of subprojects and ground activities in their localities. Their active involvement would ensure that their needs, interests and concerns are considered not only in the regional and provincial plans (i.e. AFMP and PCIP) but also in the design and final configuration of specific subprojects under I-BUILD and I-REAP components. In addition, there is a need to avoid, mitigate and/or compensate any adverse effects on their communities caused by activities supported by the project. For these reasons, the project adopts this Indigenous Peoples Policy Framework.

3.2 IP Policy Framework Objective

This Framework complies with the Philippines Indigenous Peoples Rights Act (RA 8371) and the World Bank's Policy on Indigenous Peoples (OP/BP 4.10). Its main objectives are to ensure that the interests, needs and concerns of ICC/IPs are taken into consideration in the formulation of regional and provincial plans and in the design and implementation of specific subprojects near or within their communities and/or territories. More specifically, this Framework will ensure that:

- a. ICC/IPs in the regions and provinces are able to meaningfully participate in the conduct of I-PLAN activities, including the preparation of the Provincial Commodity Investment Plan (PCIP);
- b. The selection, screening and preparation of subprojects under I-BUILD and I-REAP will be undertaken with the involvement and participation of the IP communities in the target areas in partnership with National Commission on Indigenous People (NCIP) and the Local Government Units and that:
 - i. Whenever the proposed subproject site is located within or will directly impact on any declared or proposed IP Ancestral Domain, the requirements for government-sponsored development projects under IPRA as stipulated in the Free and Prior Informed Consent (FPIC) Guidelines (i.e. NCIP Admin Order No. 1 Series of 2006 or its successor issuances) are complied with; otherwise,
 - ii. If the project site is situated outside any declared or proposed Ancestral Domain but nevertheless will directly affect and/or benefit any extant IP community or communities, a "free and prior informed consultation" is undertaken, resulting in "broad community support" for the subproject.

3.3 Indigenous Peoples Defined

The World Bank defines "Indigenous People" as a distinct, vulnerable, social, and cultural group possession the following characteristics in varying degrees:

- Self-identification as members of a distinct indigenous cultural group and recognition of this identity by others;
- Collective attachment to geographically distinct habitats or ancestral territories in the project area and to the natural resources in these habitats and territories;
- Customary cultural, economic, social, or political institutions that are separate from those of the dominant society and culture; and
- An indigenous language, often different from the official language of the country or region.

Republic Act No. 8371, otherwise known as the Indigenous Peoples Rights Act of 1997 (IPRA), defines "Indigenous Peoples" as:

- A group of people or homogenous societies identified by self-ascription and ascription by others, who have continuously lived as organized community on communally bounded and defined territory, and who have, under claims of ownership since time immemorial, occupied, possessed and utilized such territories, sharing common bonds of language, customs, traditions, and other distinctive cultural traits, or who have, through resistance to political, social, and cultural inroads of colonization, nonindigenous religions and cultures, became historically differentiated from the majority of Filipinos.
- Peoples who are regarded as indigenous on account of their descent from the populations which inhabited the country at the time of conquest or colonization or the establishment of present state boundaries, who retain some or all of their social, economic, cultural, and political institutions, but who may have been displaced from their traditional domains or who may have resettled outside their ancestral domain.

Table 3-1. Indigenous reoples in the rinippines	Table 3-1.	Indigenous	Peoples in	the	Philippines
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CORDILLERA & REGION 1	REGION II, CARABALLO MOUNTAIN	REGION III, REST OF LUZON/SIERRA MADRE MOUNTAINS (R-III,R-IV & R-V)	ISLAND GROUPS AND REST OF VISAYAS	CENTRAL MINDANAO (R-XII)	SOUTHERN & EASTERN MINDANAO (R-XI & R-XIII)	NORTHERN & WESTERN MINDANAO (R-IX & R-X)
 Bontoc Balangao Isneg Tinguian Kankanaey Kalanguya -Ikalahan Karao Iwak Ibaloi Ayangan Ifugao Tuwali Kalinga Bago Applai Isnag 	 Agta Kalanguya -Ikalahan Bugkalot Isinai Gaddan Aggay Dumagat Ibanag Itawis Ivatan Iwak Yogad Ibatan Karao Ilongot Ayagan Ichbayat- ivatan Kalanguya -Ayangan 	 Ayta Abelling Agta Dumagat Remontado Bugkalot Agta-Cimaron Kabihug Tagangon Abiyan Isarog Itom Agta-Tabangnon 	 Agutaynon Tagbanua Cgayanen Ke'ney (Tao't bato) Batak Pala'wan Moolbog Iraya Mangyan Alangan Mangyan, Buhid Mangyan, Buhid Mangyan, Buhid Mangyan, Buhid Mangyan, Buhid Mangyan, Bukid Panay Panay Bukidnon (Sulod/Tam andok) Bukidnon- Magahat Bukidnon- Korolanos Ata Eskaya Calamianen Tagbanua Bantoanon Panay- Bukidnon- Sulod Iraynon- Bukidnon- Sulod Iraynon- Bukidnon- 	 Arumanen Teduray Manobo Manobo- Dulangan Manobo- Blit T'boli B'laan Lambangi an Tasaday Kalagan Tagacaolo Armanon- Manobo Ubo- Menuvu B'laan- Tagakaulo 	 Bagobo-Klata Bagobo-Tagabaw Obu-Manuvu Ata-Manobo Ata-Matigsalu B'laan Tagakaulo Manobo Dibabawon Mandaya Mansaka Sama Mangguanga n Kalagan Agusan Manobo Higaonon Mamanwa Banwaon 	 Subanen Subanen Subanen Kalibugan Bagobo Ubo- Manobo Mamanwa Higaonon Talaindig Matigsalog Iranon Sama/Baja o (Lua-an) Manobo Bukidnon Umayamno n Tiguahanon Matigsalog- Manobo

Source: NCIP Region 11.

3.4 Social Assessment

The result of social assessment undertaken at the beginning of Program preparation confirmed that the IPs are among the poorest in the provinces. They lack basic infrastructure and social services, making them the sector least benefited by government rural development programs. Only a relatively small number of projects reach their communities; most are located in remote, inaccessible areas. Most IPs have the perception that they have the least access to agricultural services, education, health services and potable water supply, and they are gradually losing control over their ancestral land.

Focus group discussions indicate that there is nothing in their culture or traditions which may affect their successful participation in any project that will benefit their communities. IP communities value consensus, engage in communal activities, sharing of resources and are generous (which, they say, lowlanders, take advantage of). Contrary to popular notion, IPs are currently moving slowly into crop production farming systems.

The above experiences and marginalization of IPs are characteristic of most groups in Mindanao but can also describe IPs in Luzon and Visayas. In addition, out of focus group discussions, other issues emerge including dislocation caused by intrusion of different projects into their ancestral land, developmental aggression and conflicts of governance.

Furthermore, focus group discussions in Visayas and Luzon indicate that in socio-political terms IPs are politically disadvantaged because they have little or no representation in local governance, much less at the national level. There are no unified efforts among IP communities to address longstanding grievances and demands. There are even instances when the highest laws of the land run contrary to tribal laws.

Economically, indigenous cultural communities are at a great disadvantage. Traditionally farmers, hunters and fishers, IPs have very limited or no access to information and knowledge on sustainable agricultural practices, inputs and technologies, as well as improved plant stock/seeds. Under these adverse circumstances, IPs usually resort to unsustainable and suboptimal farming practices, perpetuating an environmental vicious cycle. Slash-and-burn farming practices lead to depletion of the forest cover, pushing game animals further into the wild result to diminished catch for hunters. For fisherfolk, non-IP migrant fishers using destructive fishing method such as dynamite & cyanide fishing destroys habitats resulting in depleted fish stocks. The lack of or badly deteriorated access roads result to more costly farm-produce of IPs making them economically uncompetitive in the open/free market.

These insights obtained from previous social assessments will be among the bases for designing specific assistance for the IPs as well to orientate and sensitize LGUs and other institutions working with IPs.

3.5 IP Development Under PRDP

The PRDP, primarily through Infrastructure Development (I-BUILD) and Enterprise Development (I-REAP), supports and complements many of the activities included in the Ancestral Domain Sustainable Development Protection Plan (ADSDPP). PRDP shall ensure that technical assistance is provided to enable the indigenous peoples to participate meaningfully in the planning process under the Local and National level Planning. This means, among others, deployment of competent and committed Program partners who can work with indigenous communities to ensure that the prioritized plans and projects of IPs as reflected in their ADSDPPs are supported by LGUs and integrated into barangay, municipal and provincial investment plans.

3.6 Requirements for Subprojects

All subprojects shall undergo rapid social and environmental assessment as part of their Feasibility Studies. This should result in the preparation of an environmental and social management plan (refer to Annex H - 1). If the social assessment indicates the presence of Indigenous People Communities in the proposed project site, the Subproject ESMP should appropriately reflect that IP Policy is triggered.

In order to be approved for funding, all Infrastructure Development (I-BUILD) and Enterprise Development (I-REAP) subprojects must comply with the following requirements:

a. Subprojects that overlap or are located inside any declared or proposed IP Ancestral Domain or those that, while not located inside, will directly affect any declared or proposed IP Ancestral Domain

Subprojects under this category will comply with the requirements Indigenous Peoples Rights Act as stipulated in the Free and Prior Informed Consent (FPIC) Guidelines (i.e. NCIP Admin Order No. 1 Series of 2006), particularly Section 6B and Section 27 thereof.

For subprojects that are being solicited by the IP community themselves or those that are already identified in their ADSDPPs, there would be no need to undergo the Free and Prior Informed Consent process. Instead, the NCIP will only need to validate the following:

- i. The ICC/IP, in fact, voluntarily solicited or initiated the plan, program, project or activity to be undertaken;
- ii. The plan, program, project or activity conforms with the community's ADSDPP or in the absence of the ADSDPP, the concerned community considers the same to form part already of the ADSDPP that they will formulate in the future;
- iii. The ICC/IP knows the extent of the plan, program, project or activity and its sociocultural/ environmental impact to the community;
- iv. The concerned LGU and the ICC/IP community acknowledge their obligations; or

v. The subproject activity is for the delivery of basic services or for the establishment of social enterprise or enterprise development involving community interest affecting land and resource use that would provide employment or generate income to improve the living condition and economic development of the concerned ICC/IP.

For these subprojects, the following document should be submitted to the RPCO/PSO as part of the subproject proposal package:

• An NCIP validation report or an NCIP certification affirming that conditions (i) to (v) above have been met.

For subprojects that were neither solicited by the ICC/IP nor identified in their ADSDPP but the ICC/IP are themselves the primary beneficiaries, the FPIC process will not be required. The concerned LGU only needs to formally coordinate with NCIP (or include the NCIP as coimplementer of the subproject) who will then validate that the subproject is acceptable to the intended ICC/IP beneficiaries, either because the same conform with the community's ADSDPP or shall become part thereof in the future. For these subprojects the following document should be submitted to the RPCO/PSO as part of the subproject proposal package:

• A certification by NCIP affirming that the subproject is acceptable to the intended ICC/IP beneficiaries, either because the same conform with the community's ADSDPP or shall become part thereof in the future have been met.

However, if the concerned ICCs/IPs are not the primary beneficiaries of the subproject, compliance with the FPIC process will be required as described in Section 27 of the FPIC Guidelines. For these subprojects, the following documents will be required:

- Free and Prior Informed Consent
- Memorandum of Agreement with the IP community
- Certificate of Precondition issued by NCIP
- b. Subprojects located outside any declared or proposed ancestral domains but are situated within or will affect any extant IP community or communities

Subprojects under this category are those subprojects that would affect IP communities that are outside of their ancestral domain but have retained their IPness as defined under OP4.10. Such subprojects are required to undergo a process of "free and prior informed consultation" and to demonstrate that such consultation process has led to "broad IP community support" to the final subproject design/configuration.

Free and Prior Informed Consultation. Free and prior informed consultation is consultation that occurs freely and voluntarily, without any external manipulation, interference, or coercion, for which the parties consulted have prior access to information on the intent and scope of the proposed project in a culturally appropriate manner, form, and language.

Local patterns of social organization, religious beliefs, and resource use should be taken into account in the consultation/participation process as well as in the design of subprojects. Existing tribal councils recognized by the NCIP and the LGU shall be tapped as the liaison between the participating LGU and the IP/ICC community in all activities relating to PRDP. The following should be observed in the conduct of free and prior informed consultation:

- i. Prior to consultation, the LGU must ensure that IP members have access to information about the project in general and the subproject in particular. Information campaign shall be conducted in local language or in language that is widely understood by the IP community. This could be done through the local tribal council and in culturally appropriate and effective manner. Aside from providing information about the objectives and scope of the proposed subproject, the information campaign should inform the IP community of their rights to participate in changing the subproject design if it violates any rights or is contrary to the traditions and cultural practices of their community; their rights to compensation if any of their properties are affected; and, their rights to partake of the benefits resulting from the subproject.
- ii. The IP community should be given adequate lead time of at least one full week between the conduct of information campaign and the actual consultation. The consultation shall be conducted early in the subproject preparation and shall, if necessary or if required by the IPs, allow for an iterative process to arrive at consensus.
- iii. Direct dialogues and focused group discussions, if these are not in conflict with local customs and traditional ways should be the preferred consultation tool. Attendance by IP member to dialogues and meetings should however be strictly voluntary. The concerned RPCO shall ensure that the IPs are not coerced to attend meetings.

The entire consultation process shall be undertaken and documented by the concerned LGUs. The following documents should be submitted by the LGU to the PSO/RPCO as part of the subproject proposal package:

- Dated information campaign materials in local language or in language widely understood by the community;
- Dated attendance sheets of consultation dialogues or Photographs of actual consultation sessions undertaken;
- Dated minutes of meetings or matrix of clarifications, issues and concerns raised and how they were explained or addressed by the LGU.

Broad Community Support. The subproject is deemed to have attained broad-based community support when the great majority of the members of the concerned IP community or communities express support or endorse and have no outstanding concerns about the subproject. The following needs to be submitted as part of the subproject proposal package to demonstrate broad community support:

- IP community endorsement or resolution of support signed by individual members of the IP community or communities; or,
- An endorsement signed by IP community leaders (such as the tribal council chairman or the tribal chieftain) with attestation of broad based member support by the NCIP.

3.7 Damage to Cultural Properties or Resources

The PRDP must ensure that none of its infrastructure or related projects will damage irreplaceable cultural property of the IP. Setting guidelines for all subprojects shall include strict avoidance of cultural resources particularly structures of cultural and/or historical significance and known archaeological sites. In case where infrastructure subprojects that already received broad IP community support or consent would pass through sites considered as cultural properties of the Indigenous Peoples, PRDP must exert its best effort to relocate, realign or redesign the subprojects, so that these sites can be preserved and remain intact *in situ*.

PRDP will not fund subprojects that would displace damage, render inaccessible and/or render inoperable any structures that are deemed to have high cultural and historical significance by either the IPs or the mainstream population. In case of chance finds or discovery of archaeological artefacts during construction, all activities in the affected sites must be suspended while PRDP management reports the finds to and coordinates with the National Museum or the proper government authority. Please refer to Annex H-2 Chance Archaeological/Paleontological Finds Procedure for Subprojects.

3.8 Land Acquisition

If a member of the IP community will have either of his land, crops, homes, structures and/or other properties adversely affected by the proposed subproject, he/she must be informed of the his/her rights for just compensation from the LGU as well as his/her rights to partake of the benefits resulting from the subproject. The compensation for affected land, crops, homes and other assets of individual IP members will follow the Framework on Land Acquisition, Resettlement and Rehabilitation for Project Affected Persons (See Land Acquisition, Rehabilitation and Resettlement Framework).

3.9 Institutional Capacity

DA and LGU staff will be capacitated in order to deliver the required services and provide technical assistance to IP communities as needed.

When necessary or required depending on the IP community capacities and the nature and complexities of intervention, technical assistance will be provided to IP communities in the planning of priorities and in designing and implementing subprojects.

3.10 Supervision, Monitoring and Evaluation

The PPMIU shall provide direct supervision and monitoring of the implementation of and compliance with this Framework. As part of this responsibility the PPMIU shall submit monthly, quarterly and annual reports to the RPCO containing the following minimum information:

- Involvement of IPs in the preparation of PCIP (Number of IPs, segregated by gender involved/consulted in the preparation of PCIP);
- List of subprojects located within an IP community and status of compliance with the requirements;
- List of subprojects located within Ancestral Domain and status of compliance with the requirements; and,
- Status of the implementation of the agreed measures on IP issues, including if any, modification of subproject design, site location or alignment, compensation and/or benefits sharing plan.

The report shall, together with the reports on LARRF and EMFG compliance, be incorporated into one Safeguards Compliance Report to be submitted by PPMIU to the RPCO. The RPCO shall review the reports and conduct random spot inspections at PPMIUs and/or subproject sites to validate and further evaluate compliance. It shall also consolidate all PPMIUs reports and its findings and submit the same to the PSO, which shall in turn consolidate all reports from various RPCOs and submit a copy to NPCO and to the World Bank.

3.11 Costs and Financing

The costs of capacity building of NPCO, PSO, RPCO and PLGUs; the validation, processing and review of subprojects compliance to this Framework; and the monitoring and evaluation of the implementation of agreed measures resulting from the application of this Framework have been included in the costs of various components of PRDP.

However, the cost to be incurred in complying with this Framework (e.g. ROW, Land Acquisition and Resettlement Cost) shall be borne by the subproject proponent. Cost mitigation measures that are part of the subproject design and program of works should be funded as part of the subproject financing.

4 Land Acquisition Rehabilitation and Resettlement Policy Framework

4.1 Rationale

The construction of rural infrastructure under Infrastructure Development (I-BUILD) and postharvest and other facilities under Enterprise Development (I-REAP) are unlikely to cause massive dislocation of homes or livelihood. However, rights of way for roads and irrigation canals as well as the sites of post-harvest and other facilities will need to be secured which may require homes and structures to be relocated to adjacent lots or rehabilitated in case of damage, or in some loss of crops. Loss of lands from roads and canal rights-of- way and sites of facilities may also be significant for some smallholder families while in NRM subprojects, families who are non-members or choose not to join the People's Organization (PO) organized and/or supported by the project could lose access to their traditional fishing grounds, hillside farms and/or forestlands as POs/LGUs impose new policies and rules of access of these resources.

To address these issues, the project hereby adopts this Land Acquisition, Rehabilitation and Resettlement Framework (LARRF) for use in the preparation of Infrastructure Development (I-BUILD) and Enterprise Development (I-REAP) subprojects.

4.2 Principles and Objectives

The objectives of this Land Acquisition, Rehabilitation Resettlement Framework is to ensure that all involuntary losses (i.e. whether lands, structures, crops or other properties) of project-affected persons (PAPs) are properly and justly compensated and all those who are displaced (whether physically or economically) are resettled and/or provided with assistance to improve, or at least maintain, their pre-Program living standards and income earning capacity.

This Framework adopts the principles outlined in the World Bank's Involuntary Resettlement Policy (OP/BP 4.12). In particular, the following principles shall apply:

- a. Displacement of people whether physical (i.e. relocation of homes to another area far away from the original abode) or economic (i.e. substantive loss of livelihood or of access to traditional sources of livelihood) will be avoided where feasible and acquisition of land and other assets will be minimized as much as possible.
- b. Where it is not feasible to avoid displacement, a resettlement plan shall be conceived and executed as sustainable development programs, providing sufficient investment resources to enable the displaced persons to improve their incomes and living standards at least back to pre-displacement levels;
- c. Displaced persons will be consulted and will have opportunities to participate in

planning and implementing resettlement plans;

- d. Any involuntary loss or involuntary incurrence of damage to assets (i.e. lands, homes, structures and crops) whether such loss would constitute displacement or not, shall be justly compensated through mutually agreed compensation scheme. No person (whether beneficiary of the subproject or not) shall be pressured to donate assets for the benefit of the subprojects; and,
- e. Persons who lost more than 20% of their productive assets shall be considered economically displaced and in addition to just compensation of the lost asset, shall be provided with livelihood assistance.

4.3 Social Assessments and Social Management Plan

All Infrastructure Development (I-BUILD) and Enterprise Development (I-REAP) subprojects shall undergo Social Assessments as part of their Feasibility Studies and Business Plans. The social assessment should be able to assess the extent of land acquisition and displacements, if any, due to the subproject. Land acquisition and resettlement issues, if any, should be reflected in the subproject's ESMP (Please see ESMP templates in Annex D). For NRM subprojects, the social assessments should determine potential exclusion or involuntary restriction of access of some community members to traditional livelihood sources by through the project.

4.4 Entitlement Policy

Project affected persons (PAPs) will be entitled to the following types of compensation and rehabilitation measures:

- a. PAPs involuntarily losing residential land and structures
 - i. The provision of replacement residential land (house site and garden) of equivalent size, satisfactory to the displaced person; and cash compensation reflecting full replacement cost of the structures, without depreciation;
 - i. If the displaced person so wishes and the portion of the land to be lost represents 20% or less of the total area of the residential land area, and the remaining land is still a viable residential lot, cash compensation for the land and structure lost, at full replacement cost (market value), may be provided to the person in lieu of a replacement house and lot in a new site;
 - ii. If after acquisition, the remaining residential land and/or structure is insufficient for the PAP to re-establish his home, then at the request of the displaced person the entire residential land and structure will be acquired at full replacement cost,

without depreciation; and,

i. If the PAP is a tenant who has rented the displaced house for residential purposes, he/she will be provided with a cash grant of three months rental fee at the prevailing market rate in the area, and will be assisted in identifying alternative accommodation.

b) PAPs involuntarily losing agricultural land and crops

- i. The general mechanism for compensation of lost agricultural land will be through provision of "land for land" arrangements of equal productive capacity, satisfactory to the displaced person. However, if the displaced person so wishes and the portion of the land to be lost represents 20% or less of the total area of the landholding, and the remaining land is still a viable economic holding, cash compensation, at full replacement cost (market value), may be provided to the person. If the portion of the land to be lost is more than 20% of the total area of the landholding, and the remaining land is still viable, the displaced person shall be justly compensated of the lost asset and shall be provided with livelihood assistance;
- ii. If more than 20% of a villager's agricultural land is acquired and the remaining holding is not viable, then subject to PAPs agreement the Program will acquire the entire landholding and provide compensation of the acquired land at direct land replacement;
- iii. PAPs will be compensated for the loss of standing crops and fruit or industrial trees at market price; and
- iv. PAPs, whose land is temporarily taken by the works under the Program will be compensated for their loss of income, standing crops and for the cost of soil restoration and damaged infrastructure.

c) PAPs involuntarily losing business

i. The mechanism for compensating loss of business will be; (1) the provision of alternative business site of equal size and accessibility to customers, satisfactory to the displaced person; (2) cash compensation for lost business structure reflecting full replacement cost of the structures, without depreciation; and (3) cash compensation for the loss of income during the transition period.

d) PAPs involuntarily losing means of livelihood or access to livelihood

i. PAPs shall be provided with livelihood assistance and support within the community. They will also be provided compensation at full replacement cost, without depreciation for any other fixed assets affected in part or into by the
project, such as tombs and water wells. In cases where community infrastructure such as schools, factories, water sources, roads, sewage systems or electrical supply is damaged, the Program will ensure that these would be restored or repaired as the case may be, at no cost to the community.

4.5 People's Participation and Consultation

The project affected and displaced persons will participate throughout the various stages of the planning and implementation of the rehabilitation and resettlement activities. For these purposes and prior to any rehabilitation and resettlement activities, the project affected and displaced persons will be fully informed about the Program and about the provisions of this Policy at meetings held by the respective Program staff at provincial and municipal levels.

Each project affected and displaced household will be fully consulted about acceptable alternatives and options and informed by the relevant Program staff at provincial and municipal levels of their entitlements and rehabilitation options, where applicable.

4.6 Donation

The property owner may wilfully make a donation of his/her property or any part thereof that may be affected by the activities for the rural infrastructure or agricultural projects to the local government unit. The deed of donation should be duly notarized and must be annotated by the Registry of Deeds or by any authorized agency. The Provincial/Municipal LGU/proponent shall shoulder the cost of resurvey for the donated portion of land and the conduct of the survey for the adjustment of the land titles and real property tax due.

To ensure that the donation is voluntary, the RPCO/PSO should validate with the property owner whether he/she is informed of his/her right to receive just compensation and the right to an appraisal along with the offer of just compensation. The deed of donation shall exhibit voluntary action by the property owner; otherwise this will not be accepted, particularly if it is a result of a pressured negotiation between the property owner and the LGU.

4.7 Resettlement Plan

While resettlement is not expected to happen under the project similar to PRDP, in case any resettlement issues crops up during implementation, the resettlement plan will have to be prepared by the subproject following below:

4.7.1 Inventory and Entitlement

An inventory for each road, bridge, irrigation canal, water supply pipe alignment or segment thereof will be prepared by the Municipal Planning and Development Officer (MPDO) and other

municipal agencies concerned with resettlement and assisted by the respective Provincial Project Management and Implementation Unit (PPMIU). This will be approved by the Regional Program Coordination Office (RPCO) and endorsed by the concerned Program Support Office (PSO) to the National Program Coordination Office (NPCO). The NPCO will submit the subproject work program to the World Bank (Manila Office) for its concurrence.

The Inventory shall include the following information for each PAP's household (see Annex G-Form 1);

- a. Number of persons and names;
- b. Amount and area of all the residential plots lost;
- c. Amount, category/type and area of agricultural land lost;
- d. Quantity and types of crops and trees lost;
- e. Quantity and category of any fixed assets lost;
- f. Productive assets lost as a percentage of total productive assets; and
- g. Temporary damage to productive assets.

The entitlements of assets and land affected are calculated based on the above information (see Annex G- Form 1).

4.7.2 Full Resettlement Plan and Survey

In cases where the potential adverse impact of a subproject on displaced persons is major (i.e., 200 people or more are displaced), a full resettlement plan for each road or segment of road or irrigation system or any subproject will be prepared by the MPDO and assisted by the PPMIU in accordance with the provisions of this Resettlement Policy³. The full resettlement plan will include among others: (a) a completed inventory; (b) a detailed socioeconomic survey of displaced persons describing their age, sex, ethnicity, education, main occupation, sources of income, and total household income per year (see Annex G-Form 3); (c) detailed compensation and entitlement calculations for each affected household, where applicable; (d) location, area and category of the replacement residential and agricultural land to be provided, if that be the case; (e) a time-bound action plan for implementation; (f) a detailed budget and source of funding for the various compensation measures; and (g) arrangements for external monitoring and evaluation. Annex G -Form 5 shows a sample checklist of land acquisition activities under PRDP.

4.8 Implementation Schedule

A detailed implementation schedule of the various activities to be undertaken will be included in each inventory and resettlement plan.

³Impacts are considered minor if the affected people are not physically displaced and less than 10% of their productive assets are lost. If the reverse were to occur, the impacts will be considered major.

Payment of compensation and provision of other entitlements (in cash or in-kind) shall be satisfactorily completed for each subproject prior to the World Bank giving "no objection" for award of contract for civil works.

The same time requirement would apply if displaced persons voluntarily contribute any part of their land and/or assets for the subproject⁷. That is all deeds of donations and other relevant legal documents for each subproject shall be satisfactorily completed prior to the World Bank giving "no objection" for award of contract for civil works.

4.9 Supervision, Monitoring and Evaluation

Implementation of the inventories and resettlement plans will be regularly supervised and monitored by the respective PPMIU in coordination with the respective MPDO. The findings will be recorded in quarterly reports to be submitted to the DA RPCO and PSO.

Internal monitoring and supervision by PPMIU and MPDO will:

- a. Verify that the baseline information of all displaced persons has been carried out and that the valuation of assets lost or damaged, the provision of compensation and other entitlements, and relocation has been carried out in accordance with the provisions of this Resettlement Policy, the respective inventory and resettlement plan.
- b. Oversee that the inventory and resettlement plan is implemented as designed and approved.
- c. Verify that funds for implementing the inventory and resettlement plan will be provided by the MLGU and/or PLGU to the Barangay Committee in a timely manner and in amounts sufficient for their purposes, and that the Barangay Committee in accordance with the provisions of the respective inventory and resettlement uses of such funds plan.
- d. Record all grievances and their resolution and ensure that complaints are dealt with in timely manner.

An external agency or agencies will be retained by DA PSO, as and when needed, to periodically carry out independent monitoring and evaluation of the implementation of the inventories and resettlement plans. The external agencies can be from academic or research institutions, non-governmental organizations (NGO) or independent consulting firms, all with qualified and experienced staff and terms of reference acceptable to the World Bank.

In addition to verifying the information submitted in the internal supervision and monitoring reports of the PPMIU, the external monitoring agency will visit a sample of 20% of displaced persons households in each Province prior to approval of civil works and/or other occasions as

deemed necessary by the PSO. The external monitor will:

- a. Determine whether the procedures for displaced persons participation, relocation and delivery of compensation and other entitlements has been done in accordance with this Resettlement Policy and the respective inventories and resettlement plans.
- b. Assess if the Resettlement Policy's objective of restoration of living standards and income levels of displaced persons have been met.
- c. Gather qualitative indications of the social and economic impact of Program implementation on the displaced persons.
- d. Suggest modification in the implementation procedures of the inventories and resettlement plans, as the case may be, to achieve the principles and objectives of this Resettlement Policy.

4.10 Costs and Budget

Each inventory and resettlement plan will include detailed cost of relocation, compensation and other entitlements, with a breakdown by agricultural land, residential land, business land, houses, business and other assets. The cost estimates will make adequate provision for contingencies.

Sources of funding for the various inventories and resettlement activities will be should ered by the concern Local Government Units.

5 Grievance Redress Mechanism Framework

The grievance redress mechanism (GRM) is an integral project management element that intends to seek feedback from beneficiaries and resolve of complaints on project activities and performance. The mechanism will ensure that (i) the public within the project influence are aware of their rights to access, and shall have access to, the mechanism free of administrative and legal charges; (ii) that these rights and interests are protected from poor project performance, especially of beneficiaries and/or affected persons; and (iii) concerns arising from project performance in all phases are addressed effectively.

Each participating LGUs will be required to set up a Grievance Redress Mechanism that would conform to this Framework. The GRM to be established at the LGU will serve all Subprojects and related Program activities that are implemented or under the auspices of the LGU.

5.1 Access

The Program Support Offices (PSO), RPCOs, and the relevant local government units (LGUs) will make the public aware of the GRM through public awareness campaigns, training and capacity building in Project Implementation Support (I-SUPPORT). Any person who has feedback or complaints regarding the performance or activities of the project and its subprojects during pre-implementation, implementation and operation phases, shall have access to the GRM mechanism.

Contact details in support of the mechanism will be publicly disclosed and posted in the offices of concerned communities and in strategic places of the project's area of influence. These will also be incorporated in PRDP information materials, such as Project brochures, flyers and posters.

5.2 Grievance Point Person

The PSOs, the RPCOs, and the LGU Governors/Mayor's Offices will each nominate and train one of their officers to be a Grievance Point Person (GPP) for project-related issues. The GPPs will be responsible for the initial screening of feedbacks and complaints, as well as, the organization of preliminary meetings with concerned parties to establish the critical path to resolution. A registry of feedback or grievances received will be maintained by the GPPs for reporting to the NPCO and the World Bank, specifically for associated follow-up, resolution or non-resolution of issues. Feedback/grievance registries will be consolidated by the NPCO for discussions on how to further enhance PRDP systems based on the feedback and complaints.

5.3 Grievance Investigation and Resolution Process

Households or groups of households wishing to provide feedback and/or complain about the effects of PRDP activities on their property, production system, economic well-being, spiritual life, environmental quality, or any other assets of their lives shall make their complaint using the standard complaint form provided by the GPPs. The Grievance Investigation and Resolution process is outlined below:

- a. Step 1: Feedback/Complaint Form will be accomplished by beneficiaries, affected persons (APs), households (AHs) or groups of households and sent to the GPP of the relevant body (PSOs, RPCOs or LGUs).
- b. Step 2: Feedbacks and complaints will be recorded in the registry. In cases of complaints, the GPP will assess the validity of the grievance. If evaluated as valid, within 10 days from the date the complaint is received, the relevant LGU's GPP will organize meetings with the relevant agencies/contractors to discuss how to resolve the matter. All meetings will be recorded and copies of the minutes of meetings will be provided to beneficiaries or APs/AHs.
- c. Step 3: The relevant LGU Governor/Mayor's Office shall take such mitigation measures as agreed in meetings from step 2 within 10 days, or some other period acceptable to the parties referred to in step 2.
- d. Step 4: When the complaint is resolved, the Complaint Form shall be signed by complainant/head of household, the relevant LGU Mayor's Office and annotated at each stage of process by the relevant LGU with copies to be sent to the concerned RPCO.
- e. Step 5: If no understanding or amicable solution is reached, or if no response is received from the relevant LGU Governor/Mayor's Office within 15 days after the registration of complaint, the APs/AHs can appeal to the relevant LGU Council (Sangguniang Bayan, Panglungsod or Panlalawigan). The relevant local council will decide and take mitigation measures within one month of receiving the appeal.
- f. Step 6: If no understanding or amicable solution is reached, or if no decision or mitigation measure is received from the relevant LGU Council within 15 days after the registration of complaint, the APs/ AHs can appeal to the relevant RPCO GPP. The concerned RPCO will decide and take mitigation measures within one month of receiving the appeal.
- g. Step 7: When the complaint is resolved, the Complaint Form shall be signed by complainant/head of household, the relevant LGU, the RPCO, and annotated at each stage of process by the GPP of the PSO.
- h. Step 8: If no understanding or amicable solution is reached, or if no response is received from the relevant RPCO within 15 days after the registration of complaint, the APs/ AHs

can appeal to the PSO GPP. The PSO will provide a decision and take mitigation measures within one month of receiving the appeal.

- i. Step 9: When the complaint is resolved, the Complaint Form shall be signed by complainant/ head of household, the relevant LGU, the PSO and annotated at each stage of process by the GPP of the NPCO.
- j. Step 10: If no understanding or amicable solution is reached, or if no response is received from the relevant PSO within 15 days after the registration of complaint, the APs/ AHs can appeal to the NPCO GPP. The NPCO will provide a decision and take mitigation measures within one month of receiving the appeal.
- k. Step 11: When the complaint is resolved, the Complaint Form shall be signed by complainant/ head of household, the relevant LGU, and the NPCO with copies to be sent to WB.
- I. Step 12: If the AP/AH is still not satisfied with the decision of the PSO in the absence of any response within the stipulated time, the AP/AH as a last resort may submit his/her case to the court, in which decision is final.

Annex A - 1

TYPES OF SUBPROJECTS LIKELY TO BE FUNDED BY PRDP

- a. Farm to Market Road
- b. Bridges
- c. Communal Irrigation
- d. Potable Water Supply
- e. Post Harvest Facilities
- f. Production Facilities
- g. Market Facilities
- h. Fish Port
- i. Fish Landing
- j. Guard House/ Watch Tower (Fish Sanctuary)
- k. Tram Lines
- I. Cold Storage Facilities
- m. Trading Posts
- n. Green Houses
- o. Solar Dryer
- p. Watch Towers
- q. Nursery Watch Towers
- r. Slope Stabilization Works
- s. Plantation (High Value Crops)
- t. Processing Plants
- u. Mariculture

Annex A-2

Philippine Rural Development Project

ENVIRONMENTAL AND SOCIAL SAFEGUARDS SCREENING FORM FOR SUBPROJECTS

[This Screening Form should always accompany the Subproject Proposal Package]

Screening Question	Yes	No	Remarks
A. SP Eligibility			
1. Would the subproject encroach			If YES, Subproject is <u>not eligible</u> for funding
into or be located in officially			under PRDP
declared Protected Areas of			
natural habitats (e.g. natural			
parks)?			
2. Would the subproject result in			If YES, Subproject is not eligible for funding
the significant conversion of any			under PRDP
critical natural habitats (i.e.			
primary forest, critical wetlands,			
endangered species habitat,			
etc.)?			
3. Would the sub-project alter,			If YES, Subproject is <u>not eligible</u> for funding
damage or render inaccessible			under PRDP
any cultural resources, structure			
or heritage site?			
4. Would the subproject involve use			If YES, Subproject is <u>not eligible</u> for funding
of Project funds to			under PRDP
purchase/procure any chemical			
pesticide?			
5. Would the subproject involve			
reforestation?			
6. Would the subproject involve			If YES, Subproject is <u>not eligible</u> for funding
commercial forest product			under PRDP
harvesting?			
7. Would the subproject involve any			If YES, Subproject would undergo processing
Dam construction up to 10			under the Environmental and Social
meters in height (measured as			Management Framework and Guidelines
the vertical distance between the			
lowest point on the dam crest			
and the lowest point in the			
original streambed measured at			
the toe of the dam)?			
8. Would the subproject involve any			It YES, Subproject should be processed
Dam construction of more than			under WB OP/BP 4.37 on Dam Safety
10 meters but less than 15			
meters in height (measured as			

Screening Question	Yes	No	Remarks
the vertical distance between the			
lowest point on the dam crest			
and the lowest point in the			
original streambed measured at			
the toe of the dam)?			
B. OP 4.01 and Coverage under PD			
Listhe subproject a Category A as			If VES. Subproject peeds to undergo the EIA
per DAO 2003-30 Procedural			nrocess and to secure ECC from DENR: The
Manual?			FIS and the ECC shall be submitted to the
			PSO for evaluation and clearance.
10. Is the subproject a Category B as			If YES, Subproject needs to undergo Initial
per DAO 2003-30 Procedural			Environmental Examination (IEE) and to
Manual?			secure ECC from DENR. The IEE report and
			the ECC shall be submitted to the PSO for
			evaluation and clearance.
11. Is the subproject a Category C as			If YES, Subproject needs to undergo EIA/IEE
per DAO 2003-30 Procedural			and secure ECC/CNC from DENR
Manual?			
12. Is the subproject a Category D			If YES, Subproject FS should include sections
as per DAO 2003-30 Procedural			on Environmental and Social Assessments
Manual?			and to prepare and submit an Environmental
			PSO and secure CNC from DENR
C. Natural Habitat (OP/BP 4.04)			
13. Is the subproject site located			If YES, prepare an ESMP that includes
close to any protected areas			measures to ensure that project activities do
designated by government			not encroach into protected areas and
(national park, forest reserve,			measures to minimize or mitigate any
world heritage site, etc.)?			impacts of subproject activities in the nearby
			protected area.
D. Pest Management (OP/BP 4.09)			
14. Would the subproject involve			If YES, Subproject is not eligible for funding
crop production or post-harvest			under PRDP.
handling that may require the			
use of pesticide?			If NO, Subproject needs to submit evidence
			that the subproject area is covered by IPM-
			<u>FFS</u> (KASAKALIKASAN) program of DA
15. Would the subproject involve			IT YES, Subproject is <u>not eligible</u> for funding
use or regular application of			to attend training on proper bandling of
chemicals?			to <u>attenu training on proper nanuling of</u>
Chernicais:	1	1	pesticides and agrounemicals

Screening Question	Yes	No	Remarks
E. Cultural Properties (OP/BP 4.11)			
16. Is the proposed subproject sites near a known archaeological or paleontological site; or is it within a potential archaeological or paleontological site?			If YES, adopt the <u>Chance Find Procedure</u> ; Attach a Chance Find Procedure to the Subproject Proposal
F. Involuntary Resettlement			
(OP/BP 4.12) and Land Acquisition			
 17. Would the subproject affect adversely lands, crops, structures, other properties and/or livelihood. 18. Would the subproject displace people's homes and/or people's 			If YES, conduct survey of Project Affected Persons (PAP) and document <u>Minutes and</u> <u>other Evidence of consultation</u> to be included in the subproject proposal package. If YES, the subproject proponent shall prepare a <u>Resettlement Action Plan (RAP)</u>
livelihood or restrict access to			
19. Would the subproject involve, require or result in acquisition of land, right-of-way and/or easements rights?			If YES, prepare proper <u>Land Acquisition</u> <u>Documents</u> , clearly showing transfer of ownership or rights from landowners to concerned LGU. Acceptable documents include: TCT, Deed of Sale; Deed Donation (individual or group); and, Quit Claim and Waiver of Rights (individual or group).
20. Is the land to be use still			If YES, secure Special Land Use Permit from
classified under public land?			DENR
G. Indigenous Peoples (OP/BP 4.10)			
21. Is the Subproject site inside any IP Ancestral Domain?			If YES, the subproject proponent must undergo FPIC process and secure Certificate of Precondition (CP) from NCIP.
22. If the subproject is not within any ancestral domain, are there any IP community/ies in the subproject's influence area to be affected (either positively or adversely) by the subproject?			If YES, the subproject must undergo free and prior informed consultation with the IP community/ies and must show evidence of the attainment of broad community support. Documents required: (1) Minutes or other evidence of consultation conducted among IPs; (2) Evidence of broad IP community support such as (a) Resolution Endorsing the subproject noted by NCIP, (b) Letter of Subproject Solicitation signed by the IP community leaders and noted by NCIP.

Screening Question	Yes	No	Remarks
H. Waste Generation Issues			
23. Would the subproject result in the production of large amount of liquid organic waste that requires treatment before			If YES, the subproject proposal shall include construction and operation of a <u>Wastewater</u> <u>Treatment Facility</u> .
24. Would the subproject involve regular use and disposal of hazardous chemicals?			If YES, Subproject should be subject to provisions of RA 6969.
25. Would the subproject result in the production of small but significant amount of solid or liquid waste (e.g. water, medical, domestic or construction waste), or result in an increase in waste production, during construction or operation?			If YES, the ESMP should include sites for proper disposal of waste and measures to minimize waste generation.

Screening Result Summary (To be filled up by the Screening Officer)

Check the box that applies:

The Subproject is not eligible for funding under PRDP due to (state reason briefly):

□ The Subproject proposal currently does not qualify for PRDP funding but may be resubmitted for consideration after complying with the following requirements/actions (check all that applies based on the above screening table):

____Change of location/site (i.e. avoiding protected area of natural habitat, purchase of pesticides from project funds, cultural heritage property sites)

_____Change in the Subproject Design to address the following (please specify such as e.g. Wastewater Treatment Facility, etc.):

[Note that subprojects that are revised and resubmitted will be subjected again to the above screening checklist.]

The Subproject as proposed is eligible for funding and may proceed to comply with processing and preparation of the following safeguard instruments (check only those that apply based on the above screening):

_____ EIA and ECC from DENR

- _____ IEE and ECC from DENR
- ____ ESMP

FPIC/CP from NCIP
 Evidence of Free Prior Informed Consultation among IP Communities
 Evidence of Broad IP Community Support (Resolution, Endorsement, Letter, etc.)
 Resettlement Action Plan
 PAP and Entitlement Survey
 Land Acquisition Documents (lands acquired must cover all ROW and easement requirements of the subproject)
 Chance Find Procedure
 Evidence of IPM-FFS conducted or KASAKALIKAN coverage in the area

Evidence of training on proper pesticide use, handling and storage

[Note that the specific issues/recommended measures identified in the above screening checklist shall also be addressed in the relevant safeguard instruments. During the review, the instruments will be checked against the above checklist.]

Name and Signature of Screening Officer: ______ Date Completed: ______

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SAFEGUARD CLEARANCE (To be filled only after review of the Subproject proposal package)

□This Subproject is deemed ineligible because of the following reasons [*State valid reasons such as erroneous Screening*]:

□This Subproject is not yet cleared of Safeguards requirements pending compliance of the following [*Write down pending requirements and sign with initials of the reviewing officer*]:

□ This Subproject is given conditional clearance and may proceed to implementation subject to the compliance of the following requirements on or before the deadlines specified. [Write down requirements and their agreed deadlines. Note that this option should only be resorted to when the pending requirements are already underway and will not have implications on the implementation of the subproject]:

Requirement	Deadline

□ This Subproject is cleared of Safeguards requirements and may proceed with implementation.

Recommended for Clearance by: ______ PSO/RPCO Safeguard Specialist

Cleared by: _____ PSO/RPCO Safeguard Specialist

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Annex A– 3

INFRASTRUCTURE DEVELOPMENT (I-BUILD) YEAR 1 SUBPROJECTS

Year 1 subprojects under PRDP are small in scale and are considered outside the purview of the Philippine EIA. Consistent with this framework and with the Philippine EIA, these subprojects are not required to prepare IEEs and/or EIAs. Nevertheless, these subprojects will adopt the illustrated technical planning guidelines to ensure that engineering and safeguard measures are taken into account in the design of the subprojects.

Location				SP	Phys	sical	
	Location		Name of Sub-Project (SP)	Cate-	Target		Total
Province	Municipality	Barangay		gory	Qty	Unit	
Zam. Sibugay	R.T. Lim	New Antque, Taruc	Rehabilitation of New Atiqueto Taruc FMR	FMR	1.02	km	6,466,957.95
Zam. Sibugay	R.T. Lim	Sto Rosario	Rehab of Sto. Rosario to Sitio Penili	FMR	3.14	km	8,193,562.57
Zam. Sibugay	R.T. Lim	San Antonio	Rehab of Sto. Antonio - Sitio Lugame	FMR	3.50	km	8,973,022.09
Zam. Sibugay	R.T. Lim	Casacon, Tilasan	Rehab of Brgy Casacon - Tilasan FMR	FMR	3.64	km	10,904,480.62
Zam. Sibugay	Alicia	Gulayon	Rehabilitation of Gulayon-Sitio Tantawan FMR	FMR	2.05	km	7,272,551.91
Zam. Sibugay	Alicia	Dawa-Dawa	Rehabilitation of Dawa-Dawa- Tubig Sina FMR	FMR	2.48	km	6,507,215.00
Zam. Sibugay	Tungawan	San Isidro, Limanon, Little Margos	Rehabilitation of San Isidro-Limanon-Little Margos FMR	FMR	8.13	km	48,520,856.33
Zambo. Sur	Margosatubig	Kailan, Tulapok	Rehab/Impr of Kalian - Tulapok - Sitio Asinan FMR	FMR	5.60	km	26,460,943.52
Zambo. Sur	V. Sagun		Rehab. of Poblacion-Brgy. Limason	FMR	3.14	km	9,462,087.73
Zam. Sibugay	Talusan	Bualan	Construction/Rehab of Bualan (upper- lower) FMR	FMR	1.30	km	4,669,088.89

Location			Nome of Cub Ducient (CD)	SP	Physical Target		Tatal
Browinco	Municipality	Barangay	Name of Sub-Project (SP)	Cate-		get Upit	Iotai
Province	wunicipality	Deh Tighao		gury	Qly	Unit	
Zambo. Sur	Tigbao	Tuburan	Rehab/Impr. Of Tuburan-Tigbao FMR	FMR	6.38	km	49,791,893.65
Zam. Sibugay	Olutanga	Noque, Esperanza	Rehab/Construction of Noque-Esperanza FMR	FMR	3.82	km	25,715,522.65
		Sitio	Rehabilitation/Upgrading of Nat'l				
Zambo. Norte	Baliguian	Lumbani, Diculom	Highway Junction-Sitio Lumbani Diculom FMR	FMR	3.00	km	24,975,958.88
Zambo. Norte	Baliguian	Diculom, Milidan	Rehabilitation/Improvement of Sitio Lumbani Diculom-Sitio Legaspi Milidan FMR	FMR	3.50	km	18,541,304.09
Zam. Sibugay	Siay	Bagong Silang, Magsaysay	Rehab/Upgrading of Bagong Silang- Magsaysay FMR	FMR	6.960	km	21,655,038.61
Zam. Sibugay	Titay	Kitabog, Camanga	Rehab/Upgrading of Jct. Kitabog- Camanga FMR	FMR	3.0	km	5,800,000.00
Zam. Sibugay	Buug	Pamintayan, Bawang	Rehabilitation/Upgrading of Pamintayan- Bawang FMR	FMR	3.6	km	28,983,558.22
Bukidnon	Damulog	Росоросо	Rehab of Junction National Road Sitio Narugaran, Pocopoco to San Isidro Proper FMR with one (1) unit Double Barrel Box Culvert (4mx4mx7m)	FMR	1.7	km	13,353,616.95
Bukidnon	Damulog	Aludas	Rehab of Kinapat Road to Aludas Proper with one (1) unit Single Barrel (2mx2mx7m) and one (1) unit Double Barrel Box Culverts (4mx4mx7m)	FMR	2.04	km	19,280,471.31
Bukidnon	Impasug-ong	Kibenton and	Rehab/Improvement of 5.04 km	FMR	5.04	km	19,726,524.23

Location			Name of Sub-Project (SP)		Physical Target		Total
Province	Municipality	Barangay		gory	Qty	Unit	
		La Fortuna	Kibenton-Intavas FMR (3)		-		
Bukidnon	Kibawe	Balintawak and Marapange	Rehab of Balintawak-Marapange FMR	FMR	3.0	km	12,514,375.28
Bukidnon	Malitbog	San Luis and Omagling	Upgrading of San Luis-Tubod-Omagling FMR	FMR	4.0	km	16,573,150.00
Bukidnon	Malitbog	San Luis and Kiabo	Upgrading of Junction Tomigbong- Larapan FMR	FMR	5.0	km	15,965,500.00
Bukidnon	Sumilao	Puntian	Rehab of Puntian-Sitio Tambolaug FMR	FMR	6.02	km	16,558,557.82
Lanao del Norte	Lala	Simpak and Lower Sta. Cruz	Rehab of Simpak-Sta. Cruz Lower FMR	FMR	2.75	km	5,550,000.00
Lanao del Norte	Lala	Pinuyak and Simpak	Upgrading of Pinuyak-Simpak FMR	FMR	2.37	km	6,525,000.00
Lanao del Norte	Lala	Pinuyak and Maranding	Rehab of Pinuyak-Maranding FMR	FMR	1.73	km	3,225,000.00
Lanao del Norte	Salvador	Inasagan	Rehabilitation of Inasagan-Sitio Cadaatan- Camp 3- Mabatao FMR	FMR	8.00	km	21,900,000.00
Lanao del Norte	Tubod	Taguranao, Palao and Dalama	Rehabilitation of Taguranao-Palao- Dalama FMR	FMR	9.41	km	23,655,125.56
Lanao del Norte	Tubod	Camp 5 and Kalilangan	Rehab of Camp 5-Kalilangan FMR	FMR	3.977 0	km	9,944,037.53
Misamis Occidental	Aloran	Matipas	Improvement/Rehab of Matipas FMR	FMR	2.0	km	4,728,608.72

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Location				SP	Phys	sical	
	LOCATION		Name of Sub-Project (SP)	Cate-	Tar	get	Total
Province	Municipality	Barangay		gory	Qty	Unit	
Misamis Occidental	Calamba	Dapacan Bajo, Bunawan and DBAN	Rehab/Reopening of Dapacan Bajo- Bunawan-D'BAN with Spillway Bridge	FMR	3.54	km	15,178,098.22
Misamis Occidental	Calamba		Rehab of Siloy Communal Irrigation System	Irrigat ion	50	ha	2,013,916.15
Misamis Occidental	Calamba		Rehab. Of Siloy-Upper Dioyo FMR	FMR	6.50	km	28,320,865.65
Misamis Occidental	Clarin	Guba, Bernad and Bitoon	Rehab/Concreting of Canibungan Daku- Canibungan Putol FMR	FMR	4.24	km	24,572,424.82
Misamis Occidental	Clarin		Rehab/Concreting of Canibungan Daku- Canibungan Putol FMR	FMR	2.71	km	9,307,305.24
Misamis Occidental	Jimenez	Carmen	Improvement/Rehab of 4.54 km Carmen (Sitio Aquino) FMR	FMR	4.54	km	21,670,842.70
Misamis Occidental	Tudela	Casilak San Agustin	Rehab/Improvement of 2.26 km Casilak San Agustin FMR	FMR	2.26	km	6,302,904.36
Misamis Oriental	Claveria	Lanise	Rehab. Of Lanise-Mabini-Sta Cruz FMR	FMR	4.33	km	12,804,882.51
Misamis Oriental	Claveria	Don Gregorio Pelaez	Upgrading of Zone 1 to Sitio Dugo-dugo FMR	FMR	3.00	km	22,154,564.78
Misamis Oriental	Initao	Jampason and Kanitoan	Upgrading of Jampason- Dagongon FMR	FMR	2.96	km	7,488,000.00
Misamis Oriental	Initao	Gimangpang and Aluna	Upgrading of Gimampang-Aluna-Casilihon FMR	FMR	3.02	km	8,927,000.00

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Location			Name of Sub Project (SD)	SP Cato	Phys	sical	Total
Province	Municipality	Barangay		gory	Qty	Unit	TOtal
Misamis Oriental	Initao	Kamelon, Calacapan and Sinalac	Upgrading of Sapong-Mamiguis-Bansilang FMR	FMR	5.61	km	12,962,000.00
Misamis Oriental	Kinoguitan	Panabol	Upgrading of Panabol-Buko FMR	FMR	1.34	km	6,174,327.88
Misamis Oriental	Kinoguitan	Calubo	Upgrading of Calubo-Kitoktok FMR	FMR	1.16	km	9,950,755.95
Misamis Oriental	Kinoguitan	Calubo	Upgrading of Calubo-Poblacion FMR	FMR	1.72	km	7,698,675.63
Misamis Oriental	Kinoguitan	Salicapawan	Upgrading of Salicapawan-Suarez FMR	FMR	2.90	km	19,927,089.47
Misamis Oriental	Libertad	Poblacion	Upgrading of Puga-an-Bitaugon FMR	FMR	1.80	km	5,172,320.29
Misamis Oriental	Magsaysay	Mindulao	Construction of Magsaysay PWS Level II	PWS	1.00	unit	4,982,210.60
Misamis Oriental	Villanueva	Dayawan	Upgrading of Dawayan-Lokong-Crossing Mambuaya FMR	FMR	3.74	km	12,795,290.96
Misamis Oriental	Salay		Upgrading of 3.9 km Mimbule FMR	FMR	3.90	km	14,270,770.02
Davao del Norte	Prov. Of Davao Del Norte (San Isidro)		Rehabilitation of Pob Datu Balong- Prk Mamalian FMR	FMR	3.460	km	14,215,000.00
Davao del Norte	Panabo City		Rehabilitation of Little Panay - Katipunan - Kasilak FMR	FMR	8.002	km	27,813,795.16

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Location				SP	Phys	sical	
		Γ	Name of Sub-Project (SP)		Tar	get	Total
Province	Municipality	Barangay		gory	Qty	Unit	
Davae del			Republication of Durck 20 Ising EMP with		1.402	Km	
Norte	Carmen		Flat Slab Bridge Component	FMR	12.00 0	lm	12,015,818.14
Davao del Norte	Kapalong	Mamacao	Reconstruction of Mamacao Bridge	Bridg e	60.00	lm	19,760,000.00
Davao del Norte	New Corella		Rehabilitation of Dacudao-Kapatagan, New Bohol - Mesaoy FMR with Bridge Component	FMR	6.87	km	30,447,300.00
Davao del Norte	Talaingod	Sto. Nino	Rehabilitation of Banoog - Gasa - Menopal FMR	FMR	7.524	km	28,955,100.00
Davao Oriental	Baganga		Const of Mikit RCDG Bridge	Bridg e	40.00	Im	14,000,000.00
Davao Oriental	Cateel		Construction of Sta. Felomina PWS	PWS	1.000	unit	5,000,000.00
Davao Oriental	Boston		Rehab and Construction of Bukobuko Sa Anay FMR	FMR	7.86	km	48,250,097.19
Davao del Sur	Kiblawan		Rehabilitation of Maraga-a Gamay to Sitio Pulatana FMR	FMR	5.190	km	18,138,682.08
Davao del Sur	Malalag		Rehabilitation of Ibo-Pitu FMR	FMR	4.000	km	18,640,000.00
North Cotabato	Aleosan	Dualing, San Mateo and Sta. Cruz	Rehab of Dualing-San Mateo-Sta. Cruz FMR	FMR	2.76	km	8,915,136.50
North Cotabato	Aleosan	San Mateo & mampurok, Dualing	Rehab of San Mateo-Mampurok, Dualing FMR	FMR	2.62	km	9,615,612.48

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Location				SP	Phys	sical	
	Location	_	Name of Sub-Project (SP)	Cate-	Tar	get	Total
Province	Municipality	Barangay		gory	Qty	Unit	
North Cotabato	Aleosan	Sitio Baliwasan, Tomado	Rehab of Sitio Balisawan-Tomado FMR	FMR	3.50	km	5,854,545.12
North Cotabato	Aleosan	Dunguan	Rehab of Sitio Sulok, Dungunan FMR	FMR	1.78	km	2,496,188.14
North Cotabato	Kabacan	Nangaan and Simone	Rehabilitation of Nangaan -Simone (Phase II)	FMR	5.27	km	18,158,179.37
North Cotabato	Kidapawan City	Katipunan	Rehab. of Maligaya FMR	FMR	3.42	km	27,656,783.70
North Cotabato	Libungan	Cabpangi	Concreting of Cabpangi - Katitisan FMR	FMR	1.00	km	5,260,674.88
North Cotabato	Libungan	Baguer & Ulamina	Concreting of Baguer-Ulamian FMR	FMR	1.00	km	5,050,427.40
North Cotabato	Libungan	Batiocan & Demapaco	Concreting of Batiocan-Demapaco FMR	FMR	1.00	km	5,002,557.28
North Cotabato	Libungan	Poblacion & Gumaga	Concreting of Gumaga-Matibong FMR	FMR	1.00	km	5,423,927.59
North Cotabato	Libungan	Gumaga	Concreting of Poblacion-Gumaga FMR	FMR	0.60	km	2,722,987.43
North Cotabato	Libungan	Sinawingan & Gumaga	Concreting of Sinawingan-Gumaga FMR	FMR	1.00	km	5,282,526.84
North Cotabato	Midsayap	Upper Bulanan & Malamote	Concreting & Rehab of Upper Bulanan- Malamote	FMR	2.00	km	6,294,706.49
North Cotabato	Pikit	Poblacuion and Bualan	Improvement/Rehabilitaion of Pob- Bualan FMR	FMR	8.48	km	27,856,569.98

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Location				SP	Physical		
	Location		Name of Sub-Project (SP)	Cate-	Target		Total
Province	Municipality	Barangay		gory	Qty	Unit	
North Cotabato	Tulunan	New Panay, F. Cajelo, New Kulasi- Kanibong	Rehab of New Panay-F Cajelo-New Culasi- Kanibong	FMR	7.00	km	24,449,096.08
North Cotabato	Tulunan	Paraiso & Daig	Rehab of Paraiso-Daig FMR	FMR	8.60	km	23,819,472.37
North Cotabato	Tulunan	Poblacion, Sibsib & F. Cajelo	Rehab of Pob-Sibsib-F. Cajelo FMR	FMR	5.00	km	14,265,008.52
Sultan Kudarat	Esperanza	Laguiding & Numo	Const of Numo-Dukay PWS Phase II (LII)	PWS	1.00	unit	4,995,125.39
Sultan Kudarat	Esperanza	Laguiding & Dukay	Const of Numo-Dukay PWS Phase III (LII)	PWS	1.00	unit	4,249,501.49
Sultan Kudarat	Isulan	Kudanding	Rehab of Purok 2-San Matin FMR	FMR	1.780	km	5,746,692.07
Sultan Kudarat	Isulan	Tayugo	Rehab of Tayugo-Paladong-Bual FMR	FMR	1.809	km	5,062,129.68
Sultan Kudarat	Isulan	Bual	Rehab of Bual-Talitay FMR	FMR	1.425	km	4,543,066.08
Sultan Kudarat	Isulan	Impao	Rehab of Purok Malipayon-Labintao FMR	FMR		km	4,962,051.58
Sultan Kudarat	Isulan	Dansuli	Rehab of Upper Dansuli-Labintao FMR	FMR	1.145	km	6,299,136.12
Sultan Kudarat	Isulan	Bambad	Rehab of Veterans-Magsaysay-Angeles Mainuswagon FMR	FMR	4.00	km	8,731,641.01

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Location			Name of Sub-Project (SP)	SP Cate-	Physical Target		Total
Province	Municipality	Barangay		gory	Qty	Unit	
Sultan Kudarat	Kalamansig	Sangay	Rehab of New Maat-Sangay FMR	FMR	6.20	km	7,255,021.25
Sarangani	Kiamba	Kapate	Rehab/Opening of Kapate-Komapil- Kansan FMR	FMR	3.00	km	12,307,404.38
Sarangani	Kiamba	Nalus	Rehabilitation/Opening of Bocay-il FMR	FMR	2.00	km	11,986,222.72
Sarangani	Maasim	Bales	Rehabilitation of Mutag FMR	FMR	4.48	km	16,722,866.18
Sarangani	Maitum	Malalag & Mabay	Improvement of Malalag- Mabay Seaside FMR	FMR	2.26	km	14,923,918.40
Sarangani	Maitum	Wali & Pangi	Improvement of Marang FMR	FMR	1.42	km	8,019,863.39
Sarangani	Maitum	Sison & Pangi	Improvement of Saplon FMR	FMR	2.06	km	10,000,130.12
Sarangani	Maitum	Pangi & Kiambing	Improvement of Pangi-Kiambing FMR	FMR	4.26	km	29,070,335.10
South Cotabato	Surallah	Canahay	Rehabilitation of Sitio Nongon Farm to Market Rd.	FMR	2.50	km	7,298,458.06
South Cotabato	Tampakan	Liberty	Improvement of Brgy Liberty Potable Water System	PWS	1.00	unit	4,107,831.83
South Cotabato	Тирі	Kalkam/Cr Rubber/Palia n	Rehab of Kalkam-Crossing Rubber-Palian FMR	FMR	5.44	km	13,321,132.86
South Cotabato	Sto Nino	Guinsang-an	Construction of Potable Water system, Level II	PWS	1.00	unit	4,832,222.65

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Location				SP	Physical		
		1	Name of Sub-Project (SP)	Cate-	Target		Total
Province	Municipality	Barangay		gory	Qty	Unit	
South Cotabato	Sto. Niño	Poblacion, Sajaneba & San Isidro	Rehabilitation of CRBI-Magsaysay FMR	FMR	3.00	km	9,915,007.47
North Cotabato	Matalam	Marva	Concreting og Taguranao-Marva FMR	FMR	5.00	km	30,000,000.00
South Cotabato	Tampakan	Lampitak	Construction of Lampitak PWS	FMR	1.00	unit	4,949,118.14
South Cotabato	Banga	El Nonok	Imp & Constn of Katipunan-Lariosa FMR	FMR	3.70	km	11,307,487.49
South Cotabato	Norala	Poblacion	Rehab of Purok Taurus-Central Balabago FMR	FMR	1.73	km	7,776,040.96
North Cotabato	Pres Roxas	Poblacion & mabuhay	Rehab of Poblacion-Mabuhay FMr	FMR	5.00	km	13,966,766.09
North Cotabato	Pres Roxas	Greenhills	Rehab of Greenhill-Natipakan FMR	FMR	4.83	km	14,739,772.25
Sultan Kudarat	Lambayong	Matiompong	Construction of 300 l.m. PCCP & Rehab of 1.30 km E. Peralta-Asuncion FMR	FMR	1.30	km	3,833,726.83
Sultan Kudarat	Lambayong	Lagao	Construction of 300 l.m. PCCP & Rehab of 1.20 km Lambay Sambilan-Balikakao FMR	FMR	1.20	km	3,956,846.71
Sultan Kudarat	Lambayong	Maligaya	Rehab of 1.80 km L. Aserto-Rodrigo FMR with 300 l.m. concreting	FMR	1.80	km	4,897,581.55
Sultan Kudarat	Lambayong	Tumiao	Rehab of 1.50 km Maskulado Abellera - ARC2 FMR with 300 l.m. concreting	FMR	1.50	km	5,433,901.15
Sultan Kudarat	Lambayong	Tumiao	Rehab of 2.20 km Vecenta Daquiag - Sixto Sabao FMR with 300 l.m. Concreting	FMR	2.20	km	6,371,805.58

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Location				SP Physical			
	Location		Name of Sub-Project (SP)	Cate-	Target		Total
Province	Municipality	Barangay		gory	Qty	Unit	
Agusan del	Bunawan	Libertad	Const of Single Lane , 120 lm Libertad PSCG Bridge	Bridg e	120.0 0	Im	56,622,686.32
Agusan del Sur	Fsneranza		Const. Of Labao to Batac FMR with 15.80	FMR	3.06	km	14,240,185.52
Agusan del Sur	– Esperanza		Im Bridge	Bridg e	15.80	lm	7,079,353.76
Agusan del Sur	Sta. Josefa		Const of Upper Sayon -Brgy Proper FMR	FMR	3.91	km	12,080,000.00
Agusan del Sur	Talacogon		Const of Batucan-Malihao-Mabini FMR	FMR	1.00	km	4,546,211.56
Agusan del Sur	Trento		Rehab. Of NRJ Poblacion -Sitio Lower Lucad FMR	FMR	2.70	km	7,385,421.94
Agusan del Sur	Trento		Rehab. Of NRJ Poblacion -Sitio Mahayahay FMR	FMR	3.24	km	11,357,880.36
Agusan del Sur	Trento		Rehab of Sitio Gasa -Algon FMR	FMR	2.78	km	6,990,469.65
Agusan del Sur	Rosario	Libuac	Completion of Limbatangan CIS	CIS	335.0 0	ha	40,000,000.00
Agusan del Sur	Veruela	Sampaguita	Const. of Mahayahay - Agda FMR	FMR	4.03	km	8,309,687.77
Agusan del Sur	Veruela	Sampaguita	Const of Anilao-Mahayahay FMR	FMR	3.00	km	7,809,286.39
Agusan del Sur	Prosperidad	Aurora	Rehab and Const of Aurora-Camakawan- La Fortuna FMR	FMR	4.70	km	16,053,111.67

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Location				SP	Physical			
	Location	1	Name of Sub-Project (SP)	Cate-	Target		Total	
Province	Municipality	Barangay		gory	Qty	Unit		
Agusan del Sur	Prosperidad		Rehab of Sta Irene -Smoke-Boundary Cebulan FMR	FMR	6.64	km	15,689,759.26	
Agusan del Norte	Jabonga		Const/Improvement of Cuyago CIS	CIS	15.00	ha	2,000,000.00	
Agusan del Norte	Kitcharao	Sangay	Const. of Sangay - Mahayahay FMR	FMR	1.56	km	3,575,952.39	
Agusan del Norte	Kitcharao	Songkoy	Const. of Gamoton - Lake Mainit FMR	FMR	1.00	km	3,462,348.90	
Agusan del Norte	Kitcharao	Crossing	Construction of Four segments Lapucon FMR	FMR	1.42	km	3,987,540.88	
			Buntalid Siringan Small Water		115.0			
Agusan del Norte	Kitcharao	Poblacion	Impounding Irr.Sys		0	ha	13,872,266.08	
					100.0			
Agusan del Norte	Nasipit		Rehab. Of Culit CIS	CIS	0	ha	7,197,848.74	
Agusan del Norte	Santiago	Lapaz	Const. of Lapaz-E.Morgado FMR	FMR	2.70	km	12,649,669.58	
Agusan del Norte	Santiago		Concreting of Lapaz-Mandauy FMR	FMR	1.06	km	7,011,957.07	
Surigao del Sur	Barobo	Dughan	Rehab of Dughan-Causwagan-San Roque FMR	FMR	6.00	km	21,407,579.89	
Surigao del			Const of Managas Single Lane Pridge	Bridg				
Sur	Carrascal	Gamuton	Const of Managas Single Lane Druge	е	36.00	lm	9,127,950.91	
Surigao del Sur	Madrid		Const. of San Vicente Single Lane Flat Slab bridge	Bridg e	36.00	lm	10,565,209.41	

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Location				SP	Physical		
	Location		Name of Sub-Project (SP)	Cate-	Target		Total
Province	Municipality	Barangay		gory	Qty	Unit	
Surigao del Sur	Madrid		Const of San Vicente CIP	CIP	40	ha	10,161,697.83
Surigao del Sur	Marihatag		Const and Rehab of Arorogan to Masekre FMR	FMR	3.60	km	16,995,239.40
Surigao del Sur	Marihatag		Const of 1.5km arorogan-sito hunop FMR	FMR	1.50	km	8,250,000.00
Surigao del Sur	Marihatag		Rehab of 2.1km Mararag-Alegria FMR	FMR	3.40	km	18,500,000.00
Surigao del Sur	Marihatag		Rehab of 5.5km mararag -San Antonio FMR	FMR	5.50	km	19,740,000.00
Surigao del Sur	Tandag	Maitom	Rehab. Of Maitom CIS	CIS	50.00	ha	6,800,000.00
Surigao del Sur	Tago	Capilihan	Const of Capilihan-Pague -pague FMR	FMR	1.41	km	7,800,000.00
Surigao del Norte	Bacuag		Const of Cambuayon-Talimogsayan FMR Phase II	FMR	2.305	km	36,763,731.74
Surigao del Norte	Bacuag		Rehab./Const. of Tegase FMR	FMR	1.90	km	15,706,209.01
Surigao del Norte	Bacuag		Rehab & Construction of Sto. Rosario- Silop FMR Phase 2	FMR	2.1	km	13,336,958.12
Surigao del Norte	Gigaquit		Const of San-Isidro -Balesaya FMR	FMR	1.017	km	4,264,501.97
Surigao del Norte	Gigaquit		Const/Rehab of Mahanub-San Isidro FMR	FMR	1.11	km	4,510,590.08
Surigao del Norte	Placer		Rehab/Const . Of Bad-as Tres de Mayo - Amoslog FMR	FMR	4.25	km	17,248,086.01

Location				SP Physica		sical		
	Location		Name of Sub-Project (SP)	Cate-	Target		Total	
Province	Municipality	Barangay		gory	Qty	Unit		
Surigao del Norte	Sison		Rehab./Const. of Gacepan - Mayag FMR	FMR	1.819	km	11,587,824.59	
Surigao del Norte	Socorro		Const of Rizal Pre-stressed concrete Girder Bridge and approaches	Bridg e	40.00	Lm	21,862,617.11	
Surigao del Norte	Surigao City	Silop	Rehab of Sitio Proper-Sitio Tunga Tunga FMR	FMR	2.15	km	6,450,000.00	
Surigao del Norte	Surigao City		Const of Sitio Kabugwason-Sitio San Roque FMR	FMR	1.2	km	4,200,000.00	
Surigao del Norte	Surigao City		Const of Guiso FMR	FMR	1.273	km	4,450,000.00	
Surigao del Norte	Malimono		Const of Bunyasan PWS	PWS	1	unit	4,779,766.95	
Surigao del Norte	Malimono		Rehab/Const of Brgy Tinago FMR	FMR	1.46	km	10,060,997.28	
Maguindanao		DOS	Rehab/Const of Sapalan FMR	FMR	3.8	km	7,349,188.55	
Maguindanao		DOS	Rehab of Kusiong-Tapian FMR	FMR	2.21	km	6,581,544.48	
Maguindanao		Gen SKP	Const. of Kaladturan - Midconding FMR	FMR	2.3	km	7,602,413.57	
Maguindanao		Mangudadat u	Const of Panapan-Luayan FMR	FMR	1 38	km	14 531 592 75	
Maguindanao		Ampatuan	Pohab/Concroting of Matagabong EMP		2.00	km	9 600 000 00	
Maguindanao	1 ct	Darang	Rehab Of Magsaysay-Nituan FMR	EMR	1.50	km	6 600 000 00	
	130	lumhatan	Construction of Dalama FMR	FMR	2.50	km	9 412 559 83	
Lanao Del Sur		Balindong	Construction/Rehabilitation Bubong Cadapaan-Barit FMR	FMR	3.2	km	23,000,000.00	

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Location				SP	Physical			
	Location		Name of Sub-Project (SP)	Cate-	Target		Total	
Province	Municipality	Barangay		gory	Qty	Unit		
Lanao Del Sur		Lumbaca- Unayan	Const'n of Lumbak Bacayawan-Brgy. Calalaon FMR	FMR	2.16	km	6,600,000.00	
Lanao Del Sur		Kapatagan	Const/Concreting of Barao-Bakikis FMR	FMR	10	km	42,000,000.00	
Tawi-Tawi		Turtle Island	Taganak Fishport	Other Infra	1	unit	6,580,000.00	
Tawi-Tawi		Mapun	Rehab of Sapah-Duhol Batu	FMR	5.00	km	17,000,000.00	
Tawi-Tawi		Bongao	Const. of Tubig Basag to Lakit-Lakit Mandulan	FMR	6.10	km	19,500,000.00	
Tawi-Tawi	lone	Tandubas	Construction of Tandubas PWS Level II	PWS	1.00	unit	4,600,000.00	
Tawi-Tawi		Simunul	Construction of Panglima Mastul-Lakkoan FMR	FMR	5.00	km	15,897,700.00	
Tawi-Tawi	lone	Panglima Sugala	Rehabilitation of Masaggaw FMR	FMR	4.50	km	10,500,000.00	
Basilan		Sumisip	Constn./Conreting of Sucaten- Tumahubong FMR	FMR	3.35	km	16,750,000.00	
Basilan		Lamitan	Rehab/Const. of Colonia, Lamitan- Tablas,Tuburan FMR	FMR	4.96	km	17,360,000.00	
Basilan		Lamitan	Rehab.of lamitan CIS	CIS	180.0 0	ha	9,218,547.00	

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Annex B - 1

Illustrated Technical Planning Guidelines for Rural Roads

 Establish appropriate design standards. Technical considerations in the design of rural roads shall vary according to the terrain, prevailing weather, vehicle types and most importantly the anticipated volume of traffic that shall utilize the road. Site selection and design criteria shall also include economic justification, reliability (either all-weather or allow reasonable level of delays during rainy season), tolerable roughness and speed, access to higher-level networks, and access to local social and economic services. A typical cross-section of rural roads is shown below. A four meter carriage way is adapted for traffic volume of less than 200 ADT and a 5 meter carriage way for equal to 200 and above.



Typical dimensions, depending on the agreed design standards appropriate for the locality are as follows:

- Formation width
- Roadway
- Carriageway
- Shoulder
- Item 200 or 201
- Camber
- Embankment elevation
- Minimum curve radius

- 9 to 10 meters
- 7 to 8 meters
- 4 to 5 meters
- 1.5 meters both sides
- Minimum of 15 cm
- 1.5% for PCCP and 3% for gravel shoulder At least½ meter above flood level 30 meters

Exemption in the attainment of the 9 - 10 meters formation width will be applied in mountainous terrain where the 1.5 meters shoulder from the back slope of the side – cut would be sacrificed to avoid massive excavation and reducing environmental damages. The cost of mitigating measures must render the subproject still economically viable.

2. Minimize earthworks. If the alignment lies on steep sidelong (steep slope) ground, the centerline has to be carefully located to minimize earthworks. However it should be located in favor of cut material, rather than fill, to reduce the risk of the fill material sliding down the slope.



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3. Pay particular attention to drainage. The removal of surface water is crucial for the success of rural roads, since at this traffic level the weather causes more damage than does the traffic. This means that a good camber of 1.5 % for PCCP and 3% for gravel shoulder, adequate side drains, and carefully designed cross drainage structures are required.

Where side ditches are provided, they must be equipped with scour checks if the gradientexceeds4% and mitre drains (or turnouts) every 20meters to protect against erosion. A typical scour check is shown in the following figure:



Scour checks are to be installed every 5m (slope>8%); 8m (8% > 6%); 15m (< 6%)

Whenever possible mitre drains should be constructed at intervals of 20 meters along the road alignment. Identify mitre drain locations before ditching in order to spare blocks from being excavated. Where the gradient of the mitre drain is more than 4%, scour checks might be required. A typical mitre drain or turnout is shown in the following figure:



Catch water drains are usually required in hilly or mountainous terrain where there is a lot of surface water. This needs to be collected and safely led away before it reaches the excavated slope on the hillside. Where catch water drains have to be located outside the road right of way, cooperation with the landowners has to be sought. A typical catch water drain is shown below:



Relief culverts or cross drainage structures are placed perpendicular to the (horizontal) road alignment. Stream culverts must be set out in the direction causing the lowest possible disruption to the natural flow of the watercourse.



Important Notes Working with Culverts:

- Particular attention must be given to location and levels of culverts to prevent erosion, siltation and long outfalls.
- In general culvert outfall drains should not exceed 20m length
- Some locations require the road alignment to be raised to accommodate the culvert. The maximum ramp gradient should be 5%.
- Culvert rings should be well seated on a shaped bed (check with template and boning rods), or concrete bedded.
- Overfill must be at least 0.60 m over the top of the culvert.
- Provision of haunching or full concrete surround is required if overfill is less than 2/3 barrel diameter
- Provision of cement stabilised bedding, haunching or full concrete surround is required in poor in situ soil.
- Dry stone headwalls may be adequate for intermittent flows.
- Masonry, concrete or brick aprons are always required.
- Masonry/concrete/brick headwalls and outlet apron cut-offs are required for permanent water courses or high flows.
- All aprons should have cut off walls, toe and heel, on both inlet and outlet slides.

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Drifts or spillways are very common structures especially in areas where rivers are seasonal. In case where a constant flow of water has to be accommodated, vented drifts are built. Short – span bridges can be built as box culverts or stone-arch culverts. Some principal features are provided in the following diagrams:





4. Common structures for sloped areas and raised roads. Special attention must be paid to slope stability. Existing alignments are usually fairly stable, and problem areas are obvious. However, new alignments can precipitate slip failure on uphill cut-faces, and create severe erosion problems downstream of drainage outlets. Considerable care must be taken with stabilization measures.

Retaining walls are required on both the valley and mountain side depending on the stability of the material, especially where vegetation cannot stabilize the slopes. Retaining walls should be constructed using dry masonry for heights up to 4 meters and gabion walls for heights above 4 meters or where there is increased earth pressure. Cement-bound masonry should only be used where absolutely necessary. A typical design of dry masonry wall is shown below:


Bio-engineering approaches, utilizing appropriate plants (e.g.vetiver grass) to solve structural and environmental problems, have proven very cost-effective in many areas. These sustainable methods are both labor-intensive and replicable for rural areas. An example of a bio-engineered retaining wall is shown below:



Another example of a bio-engineered slope protection approach is shown as follows:



C. Photos of Common Environmental Issues in Rural Roads.



Well-constructed, well drained road with unlined earth canal. (ARCDP2)



FMR with concrete/stone masonry lined canal. (ARCDP2)



FMR with side ditches covered with over grown vegetation. (ARCDP2)



FMR with raised embankment supported by concrete stone masonry or grouted riprap retaining walls. (ARCDP2)



FMR is provided with paved carriage way along steep gradient.(CMARPRP)



Road surface is not according to specifications. (ARCDP2)



FMR above is provided with appropriate road sign. (ARCDP2)



Integrated Environmental and Social Safeguards Framework •71



FMR damaged due to scouring





FMR provided with barrier to control vehicle passage on the road.





Damage on the road carriage way due to poor drainage.(ARCDP2)



Steep side slopes on the right should be protected from possible landslide. (ARCDP2)

must

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Shown above is a member of the local O&M group doing his share in cleaning the road's side canal. (ARCDP2)



In some cases a concrete tire path maybe a more practical alternative design for rural roads. (ASFP)





Cross drainage structure half-filled with debris. (MRDP1)

Illustrated Technical Planning Guidelines for Communal Irrigation

The following are the basic environmental safeguard requirements for irrigation subprojects:

Regulatory requirements

- For a communal irrigation system subproject (new or rehabilitation / improvement) With a service area of less than 300 hectares, the proponents, in this case the local government unit needs only to prepare and submit an Environmental Management Plan.
- For an irrigation subproject with a service area of between 300 and 700 hectares, an initial Environmental Examination (IEE) Checklist should be submitted prior to securing an Environmental Compliance Certificate (ECC) from the DENR.
- For a subproject with service area greater than 700 hectares, an IEE Report is needed
- A sub project with a service of area greater than 1,000 hectares should submit a municipal watershed management plan in addition to an Environmental Impact Statement (EIS) to be submitted to the DENR-EMB.

Site selection, Planning and Design

• Base the irrigation system design and capacity on adequate historical and updated information to correctly estimate the water requirement and the range of discharge or flow of the surface water source in varying seasons.



- Integrate in the determination of water flows to be diverted downstream the river water requirements
- Conduct water sampling and testing to assess water quality to determine if water is suited for irrigation and to establish baseline so that any future

degradation and environmental / public health threats can be detected.

• Provide slope protection through bank compaction, rip-rapping on critical sections, or vegetative stabilization





Construction

- Designate a Spoils Storage Area, with top soil set aside for later use and allow maximum re-use of spoils.
- Provision of adequate drainage system and proper grading of canals so that IS structure will not be prone to flooding & consequent erosion.



Operation and Maintenance

- Practice water-saving irrigation techniques, such as Controlled Irrigation, which has been shown to reduce water used in rice production by 16-35% without decreasing grain yield.
- Continuous flooding, in contrast to Controlled Irrigation, not only wastes scarce water resources but also triggers too much leaching, soil nutrient imbalance (zinc deficiency), and lodging problem sowing to weak base and anchorage of the plant. It also results in lesser and untimely water in the fields near the tail-end, high wateruse in gravity irrigation systems, and too much water cost in pump irrigation systems.
- Promote controlled application of agrochemicals based on the Integrated Pest Management (IPM) Plan.
- Training of the farmers on the proper selection, dosage and timing of agro-chem applications to ensure maximum absorption by the plant and soil.
- Periodic analysis of the irrigation water near the downstream part of the service area prior to exit to natural waterways.
- Regular removal of debris and other waste that may obstruct water flow.



Photo courtesy of PhilRice



Photo courtesy of PhilRice



Photo courtesy of PhilRice



IFAD Photo by Louis Dematteis

CIS dam and diversion works



Small water Impounding Project

A portion of the submerged area of a small water impounding project rehabilitated in Aumbay, Samal Island. (CMARPRP)





Illustrated Technical Planning Guidelines for Water Systems

The following are some basic technical guidelines in planning and implementing rural water supply systems.

- 1. Decide on the level of service to be provided—how, where, and in what quantities water will be delivered to users. System design options are:
 - a. Single Point systems (Level1), which usually consist of dug wells or small diameter drilled wells from which water is drawn using a hand-pump.
 - b. Stand pipes or Communal Faucets (Level II): piped distribution systems which feed a limited number of public or communal taps, each of which serves all households, and other users, in the vicinity.
 - c. Household Connection (Level III): piped systems which deliver water to taps in individual household compounds or homes.

Particulars	Level I	Level II
1. Definition	Point source facility.	Communal faucet system.
	Generally suitable for areas where	More appropriate in areas where houses
	houses are sparsely distributed.	are clustered.
2. Water source	Drilled / driven shallow	Drilled shallow/deep well.
	well. Drilled/driven deep	Spring.
	well. Dug well. Spring,	Infiltration gallery.
	Rain collector.	
3. Water treatment	Generally none.	Generally none.
	Disinfection of wells is conducted	
	periodically by local health	
	authorities.	
4. Distribution	None	Piped systems provided with reservoir(s).
5. Delivery of water	At point(within250-meterradius)	Communal faucet (within25- meter radius)
6. Service level	15Hh/ point source;	4 to 6 Hh/communal faucet
	1Hh/ private well.	
7. Consumption	At least 20 lcpd	At least 60 lcpd

Definition and Features of Water Supply Systems

- 2. Explore three (3) potential categories of sources of water:
 - a. Groundwater –occurs under most of the world's land surface, but there are great variations in the depths at which it is found, its mineral quality, the quantities present and the rates of infiltration (thus yield potential) and the nature of the ground above it (thus accessibility). In hilly areas it emerges from the ground in places as natural springs, otherwise wells have to be constructed and pumps or other lift mechanisms installed.

FACTORS TO CONIDER FOR SITTING WELLS

Location:

- Locate the well at the highest point on the property.
- Avoid positioning down slope from potential sources of contamination including surface water flows and flooding conditions.
- Locate the well in a site easily accessible for maintenance.
- Define a sanitary protective area around the wellhead that is kept in its natural state.

Potential Contamination:

- Yield and quality of water supply will depend on soil type (which determines filtering capacity and transmissivity).
- Course gravel, limestone, and disintegrated rock can allow contaminants to travel quickly with little opportunity for natural purification.
- Distance to nearest pointy of potential contamination is site and aquifer specific. The following minimum distances from potential sources of contamination are best practice for sites with sand like filtering capabilities:
 - 150 ft (45.7 m) from a preparation area or storage area of spray materials, commercial fertilizers, or chemicals that may cause contamination of the soil or groundwater.
 - 100 ft. (30.5 m) from a below grade manure storage area.
 - o 75 ft. (22.9 m) from cesspools, leaching pits, and dry wells.
 - 50 ft. (15.2 m) from buried sewer, septic tank, subsurface disposal field, grave animal or poultry yard or building, privy, or other contaminants that may drain into the soil.
 - The distance between a septic tank leach field and a down-gradient well should be greater than 100 ft. (30.5 m) if the soil is coarser than the fine sand the groundwater flow rate is greater than 0.03 ft/day (0.01 n/day).

Source: Driscoll, Groundwater and Wells, second Edition

The following are methods of developing sources of groundwater:



Hand-dug Well

Historically, dug wells were excavated by hand shovel to below the water-table until Incoming water exceeded the digger's bailing rate. The well was lined with stones, brick, tile or other material to prevent collapse, and was covered with a cap of wood, stone, or concrete. Modern large - diameter dug wells are dug or bored by power equipment and typically are lined with concrete tile. Because of the type of construction large-diameter bored wells can go deeper beneath the water-table than can hand-dug wells.



Driven Well

Driven-point (sand point) wells are constructed by driving assembled lengths of pipe into the ground with percussion equipment or by hand. These pipes are normally 2 inches or less in diameter and less than 50 feet deep. These can only be installed in areas having relatively looses oils, such as sand or gravel. Usually a screened well point is attached to the bottom of the casing before driving. Driven wells are relatively simple and economical to construct. This type of well poses a moderate to high risk and is easily contaminated from nearby surface sources.



Jetted Well

This method of well drilling involves the use of a high velocity stream or jet of fluid to cut a hole in the ground and transport the loosened material up and out of the hole. The equipment used maybe the same equipment that is used for rotary drilling minus the bit. Protective casing should be installed to at least 25 feet and the well should be grouted to a minimum depthof10feet to protect the well against contamination from the surface.

Jetted wells can only be installed in unconsolidated formations and are best suited for bore holes 4 inches in diameter.



Bored Well

An earth auger rotated, by hand or power, bores the hole and carries the earth to the surface. Casing is usually steel, concrete or plastic pipe. Borehole diameter ranges from 50 to 200 mm. Bored wells can be up to 15meters deep.



Drilled or Cable Tool Well

Most modern wells are drilled, which requires a fairly complicated and expensive drill rig. Drill rigs are often mounted on big trucks. They use rotary drill bits that chew away at the rock, percussion bits that smash the rock, or, if the ground is soft, large auger bits. Drilled wells can be drilled more than 1,000 feet deep. Often a pump is placed at the bottom to push water up to the surface.



Comparison of Types of Wells

FACTOR	WELLTYPE				
	Hand-dug	Driven	Jetted	Bored	Cable Tool
Method of sinking shaft	Soil excavated by pick and shovel and lifted out by Rope and bucket.	Well point and steel pipe driven Into ground.	Jet of water and rotating action of Bit force pipe into ground.	Auger is rotated and fills with soil, Lifted out of hole And emptied.	Bit rotated and dropped to Pulverize soil and rock; debris is mixed with water
Average diameter	1.0–1.3m	30–50mm	40mm	50–200mm	50–100mm
Maximum Practical depth	10m	8m	60m	15m	75m
Principal tools And equipment	Pick, shovel, rope and bucket, steel form for concrete, hoist for lowering casing	Sledge, drive pipe, or drive weight, raised platform	Boring pipe, raised platform or tripod, pump and hoses, jetting bits	Augers, drill line, Raised platform	Motorized vehicle, tripod, pulleys, ropes, heavy drill bits, suction pump, bailer

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Casing materials	Cement, sand, gravel, and water (for concrete)	Steel pipe	Steel pipe	Steel or concrete pipe	Steel pipe
Intake	Porous concrete sections, or gravel-lined bottom	Specially-made Well point	Well screen	Well screen or Perforated pipe	Well screen
Skill of workers	Minimal	Minimal	Moderate	Moderate	Experienced
Outside water needed for construction	No	No	Yes	No	Yes

Constructing Structures for Spring Development:





Spring Box with Open Side





Seep Collection System



Anti-sepage wall and collection box



Preparation of spring box site to protect it from animals



The following are actual sample sites of spring water sources:





b. Rain water collection-from roofs or larger catchment areas, can be utilized as a source of drinking water, particularly where there are no other safe water sources available (for example in areas where ground water is polluted or too deep to economically tap).



Typical domestic rain water harvesting system, showing the main components of the system.

CISTERN TYPES				
MATERIAL	FEATURE	CAUTION		
PLASTICS				
Garbage Cans (20 – 50 gallon)	Commercially available, inexpensive	Use only new cans		
Fiber glass	Commercially available	Degradable, requires		
	Alterable and moveable	exterior coating		
Polyethylene/Polypropylene	Commercially available	Degradable, requires		
	Alterable and moveable	exterior coating		
METALS				
Steel Drums (55 gallon)	Commercially available	Verify prior use for toxics,		
	Alterable and moveable	corrodes, and rusts, small capacity		
Galvanized Steel Tanks	Commercially available	Possible corrosion and rust		
	Alterable and moveable			
CONCRETE AND MASONRY				
Ferro cement	Durable, immoveable	Potential to crack and fall		
Stone, Concrete Block	Durable, immoveable	Difficult to maintain		
Monolithic/Poured in place	Durable, immoveable	Potential to crack		

Types of cisterns or rain water collecting tanks

Common rain water treatment techniques

TREATMENT TECHNIQUES				
METHOD	LOCATION	RESULT		
SCREENING				
Strainers and Leaf Screens	Gutters and Leaders	Prevent leaves and other		
		debris from entering tank		
SETTLING				
Sedimentation	within Tank	Settles particulate matter		
FILTERING				
In Line/ Multi Cartridge	After pump	Steve sediment		
Activated Charcoal	At tap	Removes chlorine*		
Reverse Osmosis	At tap	Removes contaminants		
Mixed media	Separate Tank	Traps particulate matter		
Slow Sand	Separate Tank	Traps particulate matter		
DISINFECTING				
Boiling/Distilling	Before use	Kills microorganisms		
Chemical Treatments:				
Chlorine or Iodine	Within Tank or at pump	Kills microorganisms		
	(Liquid, tablet, or granule)	-		
Ultraviolet lights	Ultraviolet light systems	Kills microorganisms		
-	should be located after the	-		
	activated carbon filter before			
trap				
Ozonation	Before tap	Kills microorganisms		
*Should only be used after chlorine or iodine has been used as a disinfectant. Ultraviolet light and ozone				

*Should only be used after chlorine or iodine has been used as a disinfectant. Ultraviolet light an systems should be located after the activated carbon filter but before the tap.



Above is a simple up flows and filter for post treatment of stored water

- c. Surface Water –in streams, lakes and ponds is readily available in many populated areas, but it is almost always polluted, often grossly so it should only be used after some for more filtration if there are no other safe sources of water available.
- 3. Typical structures commonly used in rural water supply systems.

Stand pipe or communal faucet







Concrete Water Tank/Reservoir on Ground



Ferro-cement water tank for rainwater collection



Plastic tank for rain water collection.





4. Consider the following potential environmental impacts of water supply projects and their causes.

	PROBLEMS	POSSIBLE IMPACTS	POSSIBLE CAUSES		
1.	Depletion of fresh	Destruction of natural resource	Overestimation of water supplies		
	water resources	Destruction of aquatic life	Underestimation of water demand		
	(surface and	Loss of economic productivity	Over-pumping of water resources		
	groundwater)	Loss of recreation areas	Lack of information on resource yields		
		Land subsidence	Waste and leakage of potable water		
		Increased cost of water supplies in the	Poor water pricing policies and practices,		
		future or in down-gradient locations	leading to excessive use, waste and leakage		
2.	Chemical	Concentration of pollution in surface	Depletion of surface and groundwater		
	degradation of the	water sources	resources (see above)		
	quality of potable	Salt water intrusion	Reduced stream flows		
	water sources	Poorer quality water, with associated	Runoff/drainage from improper solid and		
	(surface and	health problems	liquid waste or excreta disposal		
	ground water)	Increased water treatment costs in the			
		future or in down – gradient locations			
3.	Creation of	Increase in vector-borne diseases	Drainage systems lacking or poorly		
	stagnant (standing)	Contamination of standing water with	designed		
	water	fecal matter, solid waste, etc. leading	Leakage from pipes/wastage from taps		
		to health problems	Lack of user/operator concern for stagnant		
		Soil erosion/sedimentation	water		
4.	Degradation of	Alteration of ecosystem structure and	Improper siting of facilities (within wetlands		
	terrestrial, aquatic,	function and loss of biodiversity	or other sensitive habitats, etc.)		
	and coastal	Loss of economic opportunity	Poor construction practice		
	habitats	Loss of natural beauty	Leakage/wastage from pipes and taps		
		Loss of recreational values	Increased population density/agricultural		
		Soil erosion/sedimentation	activity because of new water systems		
5.	Supply of	Arsenic poisoning	Failure to test water quality before		
	Contaminated	Mercury poisoning	developing the water resource		
	water	Water – related infectious diseases	Lack of ongoing water quality monitoring		
			Inadequate protection of wells and water		
			supply points		
			Biological nitrite/nitrate and/ or pesticide		
			contamination		
Source: Adapted from Alan Wyatt, William Hogrews and Eugene Brantly (1992). Environmental Guidelines for					
PV	PVOs and NGOS; Potable Water Sanitation projects. Water and Sanitation for Health Project.USAID.				

5. Adhere to the following minimum quality standards in water for human health:

SELECTED WATER QUALITY STANDARDS FOR HUMAN HEALTH

- Arsenic < 0.01 mg/L
- Total Coliforms = not detectable in any 100ml sample
- Lead < 0.01 mg/L
- Copper < 2 mg/L
- Nitrate $(NO_3) < 50 \text{ mg/L}$
- Nitrite(\dot{NO}_2) < 0.2 mg/L for long term exposure
- Fluoride < 1.5 mg/L

Sanitation and Hydrology

Preventing microbial contamination of groundwater sources depends on several factors:

- **Type of latrine** the rate of flow of pathogen containing liquid from latrine pits to the soil beneath is proportional to the quantity of liquid in the pit (static head). Dry latrines present the smallest risk of groundwater contamination.
- Water Table a latrine pit must be above the water table during all seasons. 1.5 m below the surface is the minimum depth necessary to ensure the pit contents remain dry. The greater the distance between the base of the pit and the water table, the more time is required for pathogens to seep from the pit into the groundwater, thus allowing more pathogens to die off naturally.
- Soil Type Clay, Silt and Fine sand soil types all have grain sizes small enough to act as natural filters for microbial contaminants (<0.02mm). Certain Clay soils can also absorb viruses.
- **Distance to nearest water source** the risk of contamination of a surface or groundwater source by a latrine depends on the distance to the source, the direction and velocity of the flow of water in the soil (hydraulic gradient), and the soil/rock permeability. 30m is considered the minimum separation for most soil type.

Balancing these factors to determine the best combination of siting and sanitation technology should involve input from engineers and/or hydrologist. For more information see S. Sugden, *WELL Factsheet: the Microbial Contamination of Water Supplies*.2004.<u>http://wwww.lboro.ac.uk/well/resouces/fact-sheets/fact-sheets-htm/Contamination.htm</u>
Annex C

Department of Agriculture Philippine Rural Development Program

Guidance for the preparation of the Environmental and Social Assessment Portions in the Subproject Feasibility Study Reports and the Environmental and Social Management/Mitigation Plan

I. Preparation of Social and Environmental Assessments sections of the Subproject Feasibility Study

The following should be considered in the conduct of the Social and Environmental Assessments Sections of the Subproject Feasibility Study.

A. Social Safeguard Aspects

The Social Assessment section of the FS should provide the following information:

- 1. Subproject Beneficiaries Who are the beneficiaries of the subproject? What is their socioeconomic status? Have they been consulted? Describe the consultation process (indicate date, location and attendees of meetings). Have they accepted the proposed project? What are their concerns and inputs? Describe the minutes of the meetings if any? Are the women represented in these consultations (describe attendance of women)? What are their concerns/inputs (describe any particular inputs from women, if any)?
- 2. Indigenous Cultural Community/Indigenous Peoples (ICC/IP)– Is the project located inside an ancestral domain? If the project is not situated inside any ancestral domain, is it going to affect any extant IP/ICC community or are there beneficiaries who are members of the IP/ICC community? What particular IP/ICC community is involved? What is their socioeconomic status as compared to the mainstream group? Did the IP/ICC community solicit the subproject themselves? If they did not solicit the project, have they been consulted and have they given their endorsement of the project? Describe the consultation process thus far conducted. Indicate date, location and attendees of meetings. Describe the minutes of the meetings if any. What are their concerns and inputs?

Note that: If the Project is inside any ancestral domain, or if there are any intact ICC/IP community to be affected by the project, either of the following should be secured:

- *i.* Certificate from the local tribal chieftain, or from the local tribal council or from NCIP that the project is part of the ICC-IP's development plan or is part of their Ancestral Domain Sustainable Development and Protection Plan (ADSDPP);
- *ii.* Certificate from the local tribal chieftain that the project is solicited by the ICC-IP themselves; or,

- *iii.* An endorsement (e.g. in a form of a Resolution) from ICC/IP community together with evidence of consultations conducted (e.g. minutes of meetings and list of attendees, issues and concerns raised and how they were addressed).
- **3.** Site and Right-of-Way acquisition— What is the ownership status of the proposed site or right-of-way? Describe the site requirement in terms of area (sq. m), land tenure, and existing land use. Describe the right-of-way requirements in terms of width, the types, ownership of lands and existing land use of the lands to be traversed by the subprojects.

Note that: If any lands or ROW need to be acquired by the LGU or the beneficiary community, the following are the documentary should be secured:

- *i.* If the land is public land, a Special Land Use Permit (SLUP) or lease from DENR
- *ii.* If the land is owned by LGU, evidence of LGU ownership such as Title
- *iii.* If the land is to be purchased by the LGU from private owner(s), evidence of purchase by the LGU such as Deeds of Sale or TCTs
- *iv.* If land is donated by private owners, Deed of Donation and annotation of the property at the Registry of Deeds

If the subproject is inside Ancestral Domain or if not inside, it adversely affects an extant IP/ICC community who are not themselves beneficiaries of the subprojects, then an FPIC/CP should be secured under the auspices of the NCIP.

4. Damage to standing crops, houses and/or properties – Will the construction of the project result to any crop and/or properties? Describe and try to quantify the potential damage.

Note that (potential) damage to crops and/or properties/assets should be inventoried and suitable compensation schemes should be worked out through consultation with the owners of the crops and properties (e.g. through a MOA or the Entitlement Survey Form). Compensation of damages following the agreed schemes should be based on actual damage or loss.

- 5. Physical displacement of persons Will the proposed subproject result in the relocation of houses? How many houses will be relocated? Describe the conditions of the affected houses and properties. What are the socioeconomic conditions of the affected households?
- **6.** Economic displacement of persons –Will the proposed subproject result in the loss of livelihood or reduced access of families to their traditional livelihood sources? Note that loss of livelihood may result from: loss of a significant portion of the household's farmland, loss of business such as due to loss of vending stalls, etc. Describe the nature of loss if any.

Note that if there is physical or economic displacement of persons, a **Resettlement Plan** shall be prepared.

B. Environmental Safeguard Aspects

The Environmental Assessment Section of the FS should provide adequate information on the following:

1. *Natural habitat* –Describe the project site (i.e., the lands to be traversed by the proposed road, the actual site of the PWS or structure, etc.) in terms of land use, vegetation, wildlife, presence of water ecosystems, endangered and other important species. How are they going to be impacted by the project? Is the project site within an officially declared or proposed protected area of natural habitat?

Note that: PRDP loan should not be used to fund subprojects involving civil works that encroach into Protected Areas of natural habitat such as areas declared as Natural Parks under NIPAS, expect for NRM subprojects that are allowed as per provisions of the NIPAS law of Buffer Zone, or Multiple Use Zone, and the law creating the Natural Park.

2. *Physical Cultural Resources* – Are there any structure, monuments or Physical Cultural Resources (as defined below) on site that will be affected by the subproject? Describe the cultural and historical significance of the structure/s, if any. Describe the impact of the project to the structure/s. Is the project site part of an important natural feature or landscape? How will the project change or impact the landscape? Is the project area a potential archaeological site? If there are no such structures or monuments or Physical Cultural Resources to be affected, the assessment should clearly say so.

Note that: The World Bank Policy on Physical Cultural Resources requires that physical cultural resources likely to be affected by the project should be identified and the project's potential impacts on these resources be assessed as an integral part of the EA. Cultural resources are defined as movable or immovable objects, sites, structures, groups of structures, and natural features and landscapes that have archaeological, paleontological, historical, architectural, religious, aesthetic, or other cultural significance.

When the project is likely to have adverse impacts on physical cultural resources, appropriate measures for avoiding or mitigating these impacts shall be identified in the EA. These measures may range from full site protection to selective mitigation, including salvage and documentation, in cases where a portion or all of the physical cultural resources may be lost.

If the area is a potential archaeological site, the mitigation plan should include provisions for managing chance finds. For example: in case of archaeological finds during construction, civil works must be immediately suspended and the National Museum contacted.

3. Terrain, Soil Types and Rainfall – What is the topography of the proposed subproject site? What is the type of soil? Describe the soil in terms of looseness and erosion potential. What is the amount of rainfall in the area?

Note for FMR: if all these factors are present (i.e. the terrain is hilly, the soil is generally loose, and rainfall in the area is generally heavy) such that the potential for sedimentation and erosion is high, corresponding fortifications/items in the design may be warranted (i.e., extra slope

protection works, concrete pavement, and canal lining, etc.) as opposed to the standard subproject design.

4. Hazard/Risk Assessment (Drainage Situations, Erosion and Flooding Potential) – Describe the drainage situations, erosion and flooding potential of the project site. How is it going to be impacted by the proposed subprojects?

5. Status of Environmental Clearances – Describe the environmental clearances issued by DENR (ECC/CNC).

6. Social and Environmental Impacts – attach the ESMP of the subproject

II. Preparation of the Environmental and Social Management/Mitigation Plan (ESMP) based on the Assessments

1. The ESMP should include both environmental and social management measures and it should be based on the results of the Social and Environmental Assessments in the FS as well as technical information about the proposed subproject (i.e. the type, scale and extent of the subproject, the planned alignment of roads, the structures to be built, etc. or initial/draft engineering design if already available). This means that the impacts and the measures identified in the ESMP should be consistent with the findings of the Social and Environmental Assessments and with the subproject type, scale and design.

2. To facilitate the preparation of the ESMPs, templates have been prepared for the most common subprojects namely, Farm to Market Roads, Communal Irrigation and Potable Water Supply.

3. Note that measures identified in the ESMP should be reflected in the relevant subproject documents (i.e. the Contract, the DED and/or the POW). Measures that are part of the social safeguard aspect (e.g. acquisition of right-of-way, crop/property damage compensation, IP endorsements, etc.) should be reflected in the corresponding social safeguards documents (e.g. deed of donations, survey of entitlements, survey of project affected persons, resettlement plan, IP Plan, etc.) Measures that are the responsibility of the contractor should be included as part of the Contract. These include mandatory repair/restoration of any damage to existing road or other public structure due to heavy equipment traffic, or due to other construction activities during construction, properly handing of construction waste, provision of toilet facilities and safety measures during construction. Measures that have something to do with the subproject's design should be reflected in the DED, while those that have something to do additional work should be reflected in the Program of Work. Measures that are applied as part of the maintenance and operation of the subproject should be indicated as such in the ESMP. These include measures that require introduction of new technologies in the influence areas by the DA. Otherwise, those ESMP measures that cannot be funded within the present subproject budget should automatically be part of the commitment of the LGU/community as part of future subproject enhancement.

Annex D

Department of Agriculture Philippine Rural Development Program

GUIDANCE FOR REVIEWING THE SAFEGUARDS ASPECT OF PRDP SUBPROJECTS

1. In reviewing the subprojects, the reviewer should look at the entire subproject proposal package. The reviewer should use the form/template below. The reviewer should review the FS, the draft contract, the DED and POW along with all the safeguards documents, and determine if they are consistent and adequate. The reviewer should check the submitted documents and information against the IP Policy Framework, the LARRPF and the Environmental Management Framework. However, the reviewer may focus on the following critical issues:

For any Subproject:

- 1) Project site does not encroach into protected areas or displace cultural heritage properties;
- 2) Presence of IP communities and if there are, whether the subprojects has complied with the requirements of the IP Policy Framework;
- 3) ROW acquisition What is the status of ROW acquisition. Are the ROW documents presented sufficient to cover the land/row requirements of the subproject?
- 4) Displaced houses/structures and/or land, crop/property damage and how they were or planned to be compensated; If there are displaced homes or economically displaced households, whether a resettlement plan have been prepared following the LARRPF.
- 5) Consistency of the subprojects location, design and implementation plan with the Technical Environmental Guidelines (Annex B).

For FMR, all of (1) - (5) above plus the following:

- Adequacy of slope stabilization measures
- Adequacy of drainage and/or potential flooding issues and how they were addressed
- Potential road safety issues and how they were addressed and planned to be addressed

For Communal Irrigation Subprojects, all of (1) to (5) above plus the following:

- Presence of schistosomiasis, malaria or mosquito breeding grounds and control measures applied or planned to be applied;
- Any dam should not be more than 10 meters in height and they should be designed by qualified engineers. The reviewer shall also check whether the Environmental and Social Assessment in the FS included any risk assessment of possible dam/embankment breaches or failure and whether a dam safety plan has been submitted.

For Potable Water Supply Subprojects, all of (1)-(5) above plus the following:

- Presence of septic tanks or garbage disposal site within 50 meter radius
- Whether the source of water passed a potability test

For NRM Subprojects, all of (1) to (5) above plus:

- Potential elite capture of the subproject. The reviewer shall look into the beneficiary organization whether they are really the ones traditionally occupying the areas where interventions/investment will be implemented.
- Potential exclusion of other members of the community to the beneficiary/partner organization's membership or to the subproject benefits due to socio-economic class, ethnicity and gender affiliations
- Potential restriction of access to some members of the community to their traditional sources of livelihood such as fishing grounds, forest and kaingin farms.

ANNEX E-1

Department of Agriculture Philippine Rural Development Program

TEMPLATE FOR RURAL/FARM-TO-MARKET ROADS

[Note: This template is designed to rapidly identify and assess the environmental issues and associated mitigation/management measures in Rural and Farm-to-Market Roads funded under PRDP. This template consolidates all safeguards aspect of Farm to Market Roads Subproject as found in various project documents.

Name of Road:	
Location:	
Implementing LGU:	
Estimated number of	
beneficiaries:	
New or Rehab:	
Estimated Total Cost:	

A. Site and Design Consideration

[Do not proceed with the Subproject preparation including this ESMP unless all items below are confirmed true.]

- 1. The Road does not encroach into or traverse any declared protected area of natural habitat (*c.f. Loan Agreement: PRDP will not fund subprojects located inside a declared Protected Area*);
- 2. The subproject will not displace, disfigure or render inoperable/inaccessible any monument or physical structure of known cultural and historical significance.

B. Environmental Issues and Mitigation Measures [The following are issues frequently associated with Farm to Market Roads. Issues include alleged/perceived impacts, potential impacts, health and safety and environmental risks. Entries in the "Assessment" column should describe or provide qualifications regarding the significance of the issues. Issues that are deemed critical or significant should have a corresponding entry in the "Mitigation" column. Entries in the "Instrument" column should indicate how and where in the measures will be implemented in the Subproject. Please feel free to add, delete or modify any of the items in the template. In preparing the ESMP below refer to the Environmental and Social Assessment Section of the FS for specific safeguards issues and assessments]

Issue (Potential Impact)	Assessment (Sample assessments)	Mitigation Measure	Schedule/ Duration of the Mitigation Measures	Instrument of Implement ation (POW, Contract, IDP, or O&M Plan)*	Respon- sible Unit
1. Temporary increase in sedimentation during construction	 [] Topography of the road alignment necessitate massive earthmoving and cutting of clayey or loose topsoil [] Cut materials will consist mainly of hard rocks and are unlikely to generate significant sediments 	[] Earthmoving/ cutting of slopes to be done during dry months [] Proper disposal and compaction of spoils [] No measures required		DED/POW; Contract	
2. Potential contamination of surface and groundwater with oil/grease	 [] Waste oil and grease from equipment could contaminate surface water [] There will be no or insignificant amount of waste oil/grease 	[] Proper handling and disposal of waste oil and grease		Contract	
3. Potential contamination with human waste	[] Construction workers would be temporarily housed in a base camp [] Workers would be mostly locals and are expected to go home to their respective houses after works	[] Set up adequate latrine/toilet facility at the base camp		Contract	
4. Potential disruption of traffic flow	[] The access road and/or segments to be rehabilitated need is vital to daily activities of the residents and farmers and need to be kept open to traffic during construction [] The construction will not affect daily movement of residents and farmers	[] Keep the road open to traffic flow and minimize disruptions along the access road and/or construction area; Provide adequate warning signs and traffic personnel when necessary; [] Undertake regular maintenance measures on the passable portions of the roads [] No measures needed		Contract	

5. Potential dust/mud nuisance during construction	Roads could become powdery during dry days and muddy during rainy days of the construction period [] Access road and/or the construction/ rehabilitation works passes through a populated area [] Access road and/or construction/ rehabilitation does not pass through any populated area	[] Undertake sprinkling of road (including access roads) during dry days, and filling up of potholes during rainy days, especially in residential areas []Set up speed limits for vehicles, especially within	Contract	
		residential areas [] No measures needed		
6. Landslide/ erosion of exposed road sides resulting in sedimentation of waterways	 [] The road will traverse a mountainous area necessitating deep cuts on mountainsides, particularly between station and, etc (check DED for deep cuts) [] The exposed slopes will likely consist of highly erodible loose materials [] The cut slopes will be hard materials that would resist erosion [] The road passes through a relatively benign terrain, cuts will be minimal [] The rehabilitation work does not involve additional road cuts 	 [] Include slope protection works at the following stations: etc (Specify the type/s of slope protection to be applied at each section- Consult with the Municipal Engineer: [] Bioengineering with geomat and cover crop [] Fast growing shrub species [] Riprap [] Gabions [] Terracing [] Concrete protection wall [] Others) 	DED/POW Or (if budget does not permit) LGU Commitmen t Letter	
7. Inadequate drainage resulting in flooding or ponding	 [] The road will block runoff, resulting in flooding on one side of the road during rainy days. [] Drainage issues unlikely 	[] Installation of cross drain between station and	DED	

Philippine	Rural	Development	Program •	Operations Manual
Fillippine	nuiai	Development	Flugram •	Operations Manual

8. Potential increase use of pesticides due to intensification of cash crop production in the area	 [] There is an ongoing IPM program of DA in the service area [] Farmers in the service area have not been trained on IPM 	[] DA to continue to support IPM program [] LGU to Coordinate with DA on IPM training	Capacity Building Plan O&M Plan; Capacity Building Plan	
9. Potential acceleration of denudation of the upland/hilly areas due to intensification of crop production	 [] The proposed road will connect to the market an upland/hilly area where farmers are currently practicing erosive farming techniques. The road could help accelerate the denudation of the upland/hillsides rendering them unproductive in a few years. [] The road connects only lowland farms to the market 	[] DA to coordinate with LGU for the introduction of sustainable upland farming systems in the area [] No measure required	O&M Plan; Capacity Building Plan	
10. Potential increased in encroachments of human activities into the nearby public forest	 [] The proposed road will improve human access to the nearby public forest, resulting in increased slash and burn cultivation, illegal logging and poaching. [] The proposed road does not improve access to a public forest 	[] Coordinate with DENR for the enactment of ordinance deputizing the local community to enforce forestry laws [] No measure required	O&M Plan; Capacity Building Plan	
10. Local employment	 [] Construction will provide local employment opportunities [] Construction does not provide 	[] Hiring priority shall be given to qualified local residents; Implement RI Manual on local hiring [] No measures	Contract	
<others< td=""><td>any local employment opportunities</td><td>required</td><td></td><td></td></others<>	any local employment opportunities	required		

Prepared by: _____

Adopted by PPMIU/MPMIU:

PPMIU/MPMIU Head

Noted by the local community:

Barangay Captain

Endorsed by :

Governor/Municipal Mayor

ANNEX E - 2

Department of Agriculture Philippine Rural Development Program

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN TEMPLATE FOR POTABLE WATER SUPPLY SUBPROJECTS

[Note: This template is designed to rapidly identify and assess the environmental issues and associated mitigation/management measures in Potable Water Sub-projects funded under PRDP. This template consolidates all safeguards aspect of Potable Water Supply Sub-projects as found in various project documents.

Backgrounder – One of the lessons learned in the implementation rural potable water supply programs by the national government agencies is that a large number of the potable water wells previously constructed by government agencies in the villages have been abandoned or are non-operational, due to, among others, water quality problems, such as coliform contamination, salt water intrusion, high iron and manganese content, are often encountered especially in shallow wells resulting in the abandonment of these wells.

Name of PWS Subproject:	
Location:	
Level I or Level II	
New or Rehab	
Implementing LGU:	
Number of Households:	
Estimated total Subproject	
Cost:	

A. Site and Design Consideration

[Do not proceed with the Subproject preparation including this ESMP unless all items below are confirmed true.]

- 1. The PWS involves either: (a) provision of Level I water system; (b) construction of Level II water system; or (c) rehabilitation of existing Level II water system.
- 2. The water source is not inside a declared protected area of natural habitat (*c.f. Loan Agreement: PRDP will not fund subprojects located inside a declared Protected Area*);
- 3. The water source is at least 25 meters away from any septic tank or any raw wastewater discharges (c.f. Code of Sanitation of the Philippines);

- 4. *Either of the following is true:*
 - There is no prior evidence/s (anecdotal or otherwise) indicating non-potability of the water (such as high coliform, salinity, elevated iron or manganese, etc.) at the proposed water source; or,
 - Or, if there is/are such evidence/s, appropriate preliminary potability test/s conducted on the water has/have disproved it/them; or,
 - Or, if there is evidence that has not been disproved by potability test, said water quality problem can be adequately addressed by the appropriate and acceptable design/technology which will be part of the proposed potable water supply system; and,
- 5. The subproject will not displace, disfigure or render inoperable/inaccessible any monument or physical structure of known cultural and historical significance.

B. Environmental and Social Management Plan (ESMP)

(The following are issues frequently associated with water supply system. Issues include alleged/perceived impacts, potential impacts, health and safety and environmental risks. Entries in the "Assessment" column should describe or provide qualifications regarding the significance of the issues. Issues that are deemed critical or significant should have a corresponding entry in the "Mitigation" column. Entries in the "Instrument" column should indicate how and where in the measures will be implemented in the Subproject. Please feel free to add, delete or modify any of the items in the template. In preparing the ESMP below refer to the Environmental and Social Assessment Section of the FS for specific safeguards issues and assessments.)

Issue	Assessment	Mitigation/ Management Measure	Schedule/ Duration of	Instrument (where this will be addressed) ¹	Respon- sible
			Mitigation	addressedy	Onic
			Measure		
1. Excessive	Water	[] Redesign the PWS		[] DED/POW	
water	abstraction is	based on feasible rate		[] Preparation (must	
abstraction	lPs while	of water abstraction		submit NWRB	
possibly	capacity is	given information on		clearance as part of	
resulting in:	lPs. This	the sustainable		the procurement	
	constitutes:	capacity of the source		docs.)	
	[] a small	or find another source;			
	percentage of	[] Secure NWRB			
	the capacity of	clearance/water			
	the water	permit;			
	source.				
	[] a significant				
	percentage of				
	the capacity of				

¹ (DED/POW, RAP, IP Plan, O&M Plan, Capacity Building Plan)

Issue	Assessment	Mitigation/ Management Measure	Schedule/ Duration of	Instrument (where this will be	Respon- sible
			the Mitigation Measure	addressed) ¹	Unit
	the water source but there are no existing competing water uses or no critical aquatic ecosystems to be affected downstream.				
[]Disruption or deprivation of existing water uses; or,	[] Abstraction rate is a significant percentage of water source capacity and could reduce availability of water for existing uses such as (de scribe existing uses likely to be affected);	 [] Reduce/limit water abstraction rate to IPs; [] Include existing uses/users in the proposed water system; [] Redesign PWS or find other source; 		[] O&M Plan [] Capacity Building of BAWASA	
[] Ecological damage;	[] a significant percentage and could cause a nearby aquatic or wetland ecosystem to dry up and the ecosystem is critical for the survival of any important species; [] affected aquatic or wetland ecosystem is not critical.	 [] Limit rate of extraction such that aquatic ecosystem is maintained, esp. during dry season; [] No measure required 		[] O&M Plan []Capacity Building of BAWASA	

Issue	Assessment	Mitigation/ Management Measure	Schedule/ Duration of the Mitigation	Instrument (where this will be addressed) ¹	Respon- sible Unit
[] Saltwater intrusion into groundwater ;	[] rate of groundwater extraction could cause/worsen existing saltwater intrusion in the aquifer; [] groundwater source is far from the coast or saltwater intrusion is unlikely in the area;	[] Reduce or limit water extraction rate during dry season [] No measure required	Measure	[] O&M and []Capacity Building of BAWASA	
2. Water at source allegedly not potable or water unsuitable for drinking	 [] Historical/anec- dotal/ ocular evidence of bad water quality [] Source is within highly mineralized area such as mining site and geothermal area, and/or potentially contaminated sites such as areas within or near former or existing chemical factories, recycling plants. [] Presence of abandoned wells due to alleged heavy metal concentration 	 [] Conduct standard potability (coliform) test plus additional tests for suspect contaminants: [] Arsenic [] Mercury [] Lead [] Iron [] Magnesium [] Cadmium [] Others before finalizing DED/POW; [] Otherwise look for another source 		[] Certificate of Potability and favorable test results submitted as part of the procurement package (For Drinking Water Standards refer to DOH Admin Order No.2007-0012). Otherwise, adequate treatment system should be incorporated in the project design and reflected in the POW/DED.	

Issue	Assessment	Mitigation/ Management Measure	Schedule/ Duration of the Mitigation Measure	Instrument (where this will be addressed) ¹	Respon- sible Unit
	(mercury, arsenic, etc.), taste, color, etc.				
	[] There is no evidence of poor water quality and site inspections indicate good water quality from the proposed source.	[] Conduct standard potability (coliform) test before operation of PWS;		[] If test indicate presence of coliform, LGU to install adequate treatment before operation of PWS;	
	[] Expansion of existing water source used for drinking;	[] No measure required			
3. Ownership issue of site of water source	[] Land is privately own [] Water source structure/s will displace some standing crops	[] Negotiate with landowner for the acquisition of sites for the water source structures through negotiation (e.g. by purchase, or by donation, quit claim.)		Submit to PSO deed of sale or deed of donation as part of procurement package for "no objection"	
	[] Site is public land	[] Secure Special Land Use Permit from DENR [] Acquire ROW through other means (specify)			
4. Potential ROW conflicts for the distribution pipes and communal	[] Lands to be traversed by the pipelines are privately owned [] Potential	[] Secure Quit Claims from owners of lands along the pipeline routes and communal faucet sites [] Prepare		Submit to PSO social safeguards documents as part of procurement package for the "no objection"; Implement the compensation plans at	
faucet sites	damage to/displacemen t of properties/struc tures along the pipeline routes	compensation plans, through consultations/negotiati ons with owners of affected properties		least a month prior to start of construction works	
5. Potential violation of	[] Some structures/	[] Secure FPIC		[] FPIC/CP to be submitted as part of	

Issue	Assessment	Mitigation/ Management Measure	Schedule/ Duration of the Mitigation Measure	Instrument (where this will be addressed) ¹	Respon- sible Unit
Indigenous Peoples rights	activities of the subproject are located inside any or some IP ancestral domains, or will affect any or some extant IP communities who are not themselves beneficiaries of PWS. Identify the affected IPs:	[] Relocate PWS structures/activities outside IP lands or to areas where they will not affect IP communities	measure	the procurement package requirements [] DED	
	[] The IPs are themselves beneficiaries of the PWS. Identify the IPs:	[] Ensure IPs were consulted and have given consent for the PWS, by providing documentary evidence of consultations conducted and securing Certificate of Consent from the local tribal council		Submit minutes of meetings / consultations and Certificate of Consent to PSO as part of the procurement package	
	[] The subproject (water source and pipeline) is outside the any IP ancestral domain and will not affect any extant IP community.	[] No measure required			
6. Potential sedimentatio n of creeks/water channels from the construction excavations / spoils	[] Construction will include clearing and leveling/ excavation of sloping lands involving significant amount of	[] Include slope protection/stabilization works on exposed loose soils and cuts. Describe the slope protection to be employed:		DED/POW	

Issue	Assessment	Mitigation/	Schedule/	Instrument	Respon-
		Management Measure	Duration of	(where this will be	sible
			the	addressed) ²	Unit
			Mitigation		
	excavated spoils		weasure		
	excavated spons	[] Include restoration			
		works such as			
		spreading out piles of			
		spoils and boulders, re-			
		vegetation and/or			
		landscaping of exposed			
		areas at construction			
		site.			
	[] Construction	[] No measure			
	works entail very	required			
	minimal or no				
7 Detential	excavation	[] Polocato water			
7. Potential		box/faucet area		ון דע	
	property (e.g.	and/or reroute			
cultural	monuments	nineline if nossible			
property	structures.	If not.			
p. op c. cy	archaeological	[] Observe reporting		[] Reporting protocol	
	sites, etc.) along	and conservation		included in the	
	the pipeline	protocols based on		Contract	
	routes and near	prior coordination			
	communal	with the National			
	faucets.	Historical Institute and			
		National Museum.			
8. Potential	[] Some	[] All communal faucet		[] POW/DED	
drainage	communal	outfalls/water			
issues at	faucets or water	collection points are			
faucets	are located in:	provided with concrete			
resulting in	[] clayey soils or	canals			
the formation	soils that can				
of permanent	easily become				
pools of	muddy				
water and	[] low-lying				
muddy soil	areas that could				
near the	easily become				
faucets	waterlogged				
	[] All communal	[] No measure			
	faucets or water	required			
	collection points				
	sandy well				

Issue	Assessment	Mitigation/ Management Measure	Schedule/ Duration of the Mitigation Measure	Instrument (where this will be addressed) ¹	Respon- sible Unit
9. Human activities in the PWS source site	[] There is a possibility of increase in human activities near and within the PWS water source due to improved access and site development	[] Strictly implement Sanitation Code of the Philippines such as prohibition of washing/bathing activities within 25 meters from the source		O&M Plan; BAWASA Capacity Building Plan	
	[] The PWS source is located far away from human settlements and activities	No measure required			
10. Potential lack of good housekeeping of the water source and the communal faucets/colle ction point sites	[] There are existing bathing and washing activities near or at the water source site (for spring-based PWS) or at the well sites (for artesian wells) [] Communal faucets/box sites (for Level II PWS) could become cluttered and strewn with garbage and discarded bottles, packages	[] Regular cleaning of the water source (tank/box and vicinities), and the communal faucet/box sites and vicinities;		O&M Plan; BAWAS Capacity Building Plan	
11. Potential changes in water quality due to new pollution sources	[] Water could become contaminated with new pollution sources from human activities	[] Regular sampling and potability tests conducted as required under DOH Admin Order No. 2007-0012		O&M Plan; BAWAS Capacity Building Plan	

Prepared by: _____

Adopted by PPMIU/MPMIU:

PPMIU/MPMIU Head

Noted by the local community:

Barangay Captain

Endorsed by:

Governor/Municipal Mayor

ANNEX E-3

Department of Agriculture Philippine Rural Development Program

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN TEMPLATEFOR IRRIGATION SUBPROJECTS

[Note: This template is designed to rapidly identify and assess the environmental issues and associated mitigation/management measures in Irrigation Sub-projects funded under PRDP. This template consolidates all safeguards aspect of Communal Irrigation Subproject as found in various project documents.

Name of Irrigation Syst	tem:			
Location:				
Implementing LGU:				
Number of hectares of	service area:			
Туре:	SWIP:	Run-of-River:	Pump:	
New or Rehab:				
Estimated Total Cost:				

A. Site and Design Consideration

[Do not proceed with the Subproject preparation including this ESMP unless all items below are confirmed true.]

- 1. None of the subproject structures is located inside a declared protected area of natural habitat (*c.f. Loan Agreement: PRDP will not fund subprojects located inside a declared Protected Area*);
- 2. In case of run-of-the river system, there are no ongoing sand/gravel quarrying within 500 meters upstream and 1 km downstream of the diversion points. Otherwise, the LGU has signified that all quarrying activities within the said stretch shall be stopped once the construction has started and that no quarrying permits shall be issued in the future.
- 3. The subproject will not displace, disfigure or render inoperable/inaccessible any monument or physical structure of known cultural and historical significance.
- 4. For new construction: the source or water shall meet the quality standard for irrigation, i.e., minimum silt content and absence of water-borne diseases (schistosomiasis, malaria, etc.); damage/disturbance to ecologically significant flora and fauna shall be minimal; and intake point or diversion shall be outside protected areas or critical watersheds;

B. Environmental Issues and Mitigation Measures [The following are issues frequently associated with Communal Irrigation Systems. Issues include alleged/perceived impacts, potential impacts, health and safety and environmental risks. Entries in the "Assessment" column should describe or provide qualifications regarding the significance of the issues. Issues that are deemed critical or significant should have a corresponding entry in the "Mitigation" column. Entries in the "Instrument" column should indicate how and where in the measures will be implemented in the Subproject. Please feel free to add, delete or modify any of the items in the template. In preparing the ESMP below refer to the Environmental and Social Assessment Section of the FS for specific safeguards issues and assessments.]

Issue (Potential Impact)	Assessment	Mitigation Measure	Schedule/ Duration of the Mitigation	Instrument of Implementation (POW, Contract, IDP, or O&M	Respo nsible Unit
			Measure	Plan)*	
1.Schistosomiasis	[] The vector snail (Oncomelania sp.) is not present in the area but there is a risk that the species may be introduced in the area.	IMO and IA to coordinate with the DOH and the LGU in instituting a system of screening planting materials, soils from endemic areas.	5.3.1	O&M Plan	
	[] The vector snail is endemic but there is no reported case of infection in the area	Screening of animals and people from infected areas Improved sanitation	5.3.2	O&M Plan	
	[] The disease is already prevalent in the area. The DOH regularly conduct health surveillance and treatment	IMO/IA to support existing DOH program and improves sanitation Information and Education Provision of footbridges	5.3.3	O&M Plan	
	[] Schistosomiasis not an issue. The potential for introduction of the disease in the area is very low				
*2. Potential increase use of pesticides	[] There is an ongoing IPM program of DA in the service area	IMO/IA to continue to support the program		Capacity Building Plan O&M Plan	
	[] Farmers in the service area have not been trained on IPM	Coordinate with DA on IPM training		Capacity Building Plan O&M Plan	

lssue (Potential Impact)	Assessment	Mitigation Measure	Schedule/ Duration of the Mitigation	Instrument of Implementation (POW, Contract, IDP, or O&M	Respo nsible Unit
			Measure	Plan)*	
*3. Safety of irrigation canals and intake areas	[] There were cases of accidental drowning in the area	[]Enclose hazardous areas with fence or barriers []Install warning signs		POW	
	[] There has been no reported case of drowning but there are dangerous areas in the irrigation system	[]Enclose hazardous areas with fence or barriers []Install warning signs		POW	
*4. Domestic solid waste	[] Lack of garbage disposal system results in the accumulation of garbage in the irrigation canals	[]Coordinate with LGUs in the enforcement of solid waste laws []Conduct regular walk through along the canal system		O&M Plan	
	[] There is a garbage disposal system but is not implemented	[]Coordinate with LGUs in the enforcement of solid waste laws []Conduct regular walk through along the canals		O&M Plan	
	[] There is no garbage problem in the irrigation system				
*5.Domestic sewer and septage	[] Several households and commercial establishments dispose of their liquid wastes including septage into the irrigation canals	Coordinate with LGU in the enforcement of sanitation laws Monitoring of canals		O&M Plan	
	[] There are no households or commercial establishments along the irrigation canals				
6. Local employment	[] PIDP interventions provide local employment opportunities	Hiring priority shall be given to qualified local residents		Contract	

lssue (Potential Impact)	Assessment	Mitigation Measure	Schedule/ Duration	Instrument of Implementation	Respo nsible
			of the Mitigation	(POW, Contract, IDP, or O&M	Unit
			Measure	Plan)*	
	[] PIDP				
	interventions do not				
	provide any				
	opportunitios				
*7 Temporary		Control flow of sediments			
increase in	activities could	from civil works area by		Contract	
sedimentation	increase	drainage canals and silt		Contract	
during	sedimentation and	traps			
construction	turbidity of water				
	downstream of site				
	[] Silts/sediments,	Provide a spoil disposal		DED/POW;	
	materials removed	area		Contract	
	from the canals				
	could be washed				
	back into the canals				
	by runoff				
	[] There will be no				
	de-silting or civil				
9 Dotontial	WOIKS	Dropor bandling and		Contract	
o. Polential	[] waste oli allu	disposal of waste oil and		Contract	
surface and	contaminate surface	grease			
groundwater with	water	Brease			
oil/grease	[] There will be no				
	or insignificant				
	amount of waste				
	oil/grease				
9. Potential	[] Significant	Set up adequate		Contract	
contamination	number of	latrine/toilet facility at			
with human waste	construction	construction sites			
	workers				
	[] There will be no				
	construction				
10 Dotontial		[]Sprinkling of roads		Contract	
generation of dust	become powdery			Contract	
during	during dry days of	[]Set up speed limits for			
construction	the construction	vehicles			
	period				
11. Possible	[] De-silting	Provide adequate space		Contract	
congestion or	activities may block	to allow passage of			
blocking of traffic	off service roads	vehicles and animal			
	used by local	drawn carts			
	residents				

lssue	Assessment	Mitigation Measure	Schedule/	Instrument of	Respo
(Potential Impact)			of the	(POW, Contract,	nsible Unit
			Mitigation Measure	IDP, or O&M Plan)*	
			measure		
	[] Deliveries/hauling of materials will increase vehicular traffic	Schedule deliveries during off-peak hours		Contract	
	[] No impact on traffic				
12. Temporary disruption in water supply	[] Water supply will be temporarily suspended during repair works	Consultation with the IAs/affected farmers on the proper timing of rehabilitation activities		Procurement Plan; POW schedule; Contract	
	[] There will be no interruptions in irrigation water supply				
13. Canal scouring/on-site erosion	[] Canals are unlined and banks are easily scoured/eroded by strong currents	Cement-lining of canals and/or provision of retaining walls		DED/POW	
	[] Use of canals for carabaos to wallow contributes to the erosion of canal banks	Provide a designated wallowing area for carabaos		O&M	
	[] There are no observed scouring of canals or the canals are cement- lined				
14. Systemic sedimentation	[] High sedimentation rate of irrigation canals due to heavily silted water source	 []Conduct major de- silting of the canal as part of the POW [] Provision of settling basin/s [] Regular de-silting of the canals and settling basins to be done as part of the O&M 		DED/POW; O&M	
	[] Very low or no sedimentation				
15.Frequent flooding	[] Heavily silted canals easily	-Regular de-silting and removal of debris to be		DED/POW; O&M	

Issue	Assessment	Mitigation Measure	Schedule/	Instrument of	Respo
(Potential Impact)			Duration	Implementation	nsible
			Mitigation	IDP. or O&M	Unit
			Measure	Plan)*	
_	overflows during	done as part of the O&M			
	heavy rains				
	[] Waters from	[]Provision of adequate		DED/POW;	
	creeks and channels	drainage canals and/or		0&M	
	discharging into the	waste bays			
	canals cause	[]Regular maintenance of			
	flooding	drainage canals and/or			
	downstream even	waste bays			
	when the intake is				
	no flooding				
	reported				
17.Contamination	[] Excessive use of	- Promotion of the use of		Capacity	
of surface water	inorganic fertilizer	IPM and organic		Building Plan	
with agrochemicals	and pesticides	fertilizers among			
	caused	irrigators association			
	contamination of	members			
	surface and ground				
	waters				
16.Environmental	[] The IMO and the	- Conduct a series of		Capacity	
management	IA have low	trainings on		Building Plan	
capacity	environmental	environmental			
	management	management			
	[] The IMP and IA				
	have adequate				
	environmental				
	management				
	capability				
17. Flooding	[] Rise in water	[] Construct dikes to		[] DED/POW	
inundation of	level likely to drown	protect properties		[] RAP	
upstream of river	lands or properties	[] Compensate owners of			
due to dam	upstream	flooded lands			
construction		[] Change dam location		B === (= =	
	[] Rise in water	-Provide protection walls		[JDED/POW	
	level could erode	on susceptible portions of			
	banks unstroom				
	[] No flooding or				
	flooding or rise in				
	water level not				
	significant				
18. River bank	[] Dam or other	[] Provide river bank		[] DED and	
scouring/erosion	intake structure	protection downstream		POW	

Issue	Assessment	Mitigation Measure	Schedule/	Instrument of	Respo
(Potential Impact)			Duration	Implementation	nsible
			Mitigation	IDP. or O&M	Onit
			Measure	Plan)*	
due to altered	change the direction				
direction of river	of river flow causing				
flow	downstream				
	erosion of river				
	banks and land				
	[] Dam or intake				
	structures do not				
	alter direction of				
	water now or cause				
	downstream				
19. Potential	[] The river does	[] Redesign irrigation		[]DED/POW	
changes in	dry up during dry	system such that drying			
downstream	season or there is	up of downstream is		5.3.4	
ecology due	no history/ record	prevented			
reduction in river	of drying up but	[] Strictly implement		5.3.5	
water flow	irrigation system	water use policy designed			
	design may cause	to avoid serious		5.3.6	
	downstream to dry	ecological damage		F 2 7	
	up;	[] Monitor ecological		5.5.7	
	[] Presence of	changes downstream		[] O&M Plan	
	ecologically				
	important species				
	downstream				
	[] Irrigation system	[] Monitor ecological		[] O&M Plan	
	draws more than	changes downstream			
	30% of river water				
	and there is				
	possibility of				
	significant				
	ecological changes				
	downstream				
	[] Imgalion system				
	of river water				
20. Potential	[] Irrigated lands	[] Provide adequate		[] O&M Plan	
deterioration of	may be	irrigation water control		[] IA capacity	
soil quality (i.e.	permanently	(or turnouts) at the farm;		building plan	
increased acidity)	flooded with	provide adequate			
of rice fields due to	irrigation water,	drainage and conduct			
permanent	causing increased in	occasional draining of			
flooding with	pH, anaerobic	farms			
irrigation water	decomposition/met				
1	nane production,			1	

Issue	Assessment	Mitigation Measure	Schedule/	Instrument of	Respo
(Potential Impact)			Duration	Implementation	nsible
			of the	(POW, Contract,	Unit
			Mitigation	IDP, or O&M	
			Measure	Plan)*	
	etc.				

*IMO is NIA's Irrigation Management Office in charge of the CIS

Prepared by: _____

Adopted by PPMIU/MPMIU:

PPMIU/MPMIU Head

Noted by the Irrigators Association:

Irrigators Association President

Endorsed by :

Governor/ Municipal Mayor

Annex F

Department of Agriculture Philippine Rural Development Program

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN COMPLIANCE MONITORING

Component:	Project No.	
Name of Subprojects:	Region:	
Location of Subprojects:		
Status of Subprojects:	-	

ISSUES	MITIGATI	SCHEDULE / DURATION	Compli ance		Status of Compliance			MEANS OF	Factors	
(POTENTIAL IMPACT)	NG MEASUR ES	OF MITIGATING MEASURES	Progre ss Indicat or	Overall Target	Target As of the Reporting Period	Actual As of the Reporting Period	Variance VERIFICATIONS/ Sofeguar Complian		ATIONS/ Affecting ARKS Safeguards Compliance	

Prepared by: _____

PPMIU

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Annex G – Form 1

Department of Agriculture Philippine Rural Development Program

ENTITLEMENT SURVEY OF AFFECTED PERSONS

Date of Survey _____ Household Survey Number_____

Component:	Proje	ct No).:		Baran	gay:					
Municipality:	Provir	vince:					Region:				
Household Composition:											
Name of Household Head and Members	e Ethnicity (if IP only)			Education Occu Education ion sour of Inco			apat Estin and d ces Inco per me		iate Fotal ne ear		
Head:											
1											
2.											
3.											
4.											
5.											
Total Landholding SQ. M ⁻	TS			Lot No				Pls. I	No.		
PROPERTIES TO BE A	AFFECTED BY	THE					7 C	-			
PROJECT		QUANTITY			REIVIARKS		ENTITLEMENTS				
A. LAND											
1. Residential	S	Sq. Mts.									
2. Commercial				Sq. Mts.							
3. Agricultural	9	Sq. Mts.									

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B. CROPS (Specify)		
1.	Sq. Mts.	
2.	Sq. Mts.	
C. TREES (Specify Age)		
1.	Nos.	
2.	Nos.	
3	Nos.	
D. STRUCTURES (Specify)		
1. Permanent	Sq. Mts.	
2. Temporary	Sq. Mts.	
3. Tombs	Nos.	
4. Wells	Nos.	
E. ECONOMIC LOSSES (Explain Briefly)	· · ·	
1. Business Lost		
2. Income Loss		
3. Temporary Losses		
F. OTHERS (Explain Briefly)		
1.		
2.		
G. SKETCH		
1		

Survey Conducted by:

Brgy. Representative

Municipal Representative

PRDP Representative

CONFORME:

Name and Signature of HH

Note: Attach donation paper or affidavit of "quit claim "in case the affected person shall not claim for any entitlement.

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Annex G – Form 2

Department of Agriculture Philippine Rural Development Program

INVENTORY & ENTITLEMENT OF PROJECT AFFECTED PERSONS

Compo	nent:															Pro	ject N	lumbe	er:	
																	P	r ovi		
Barang	ay:		-					Mu	nicip	ality:							n	ce:	Region:	
																Econo	omic			
			Land,	Crop	, and	Tree	s Los	ses			Struct	ures	Loss	es		Losse	S			
HH Survey No.	Name of Head of Household	No. of Persons in HH	Total Landholding of HH in sq. m.	Land to be Acquired in sq. m.	Land Type	Land Loss as % of Total	Crops lost type	Crops lost in Sq. Meters	Fruit trees Lost Type	Fruit trees Lost Number	No. & Type of lost structures	Structures Permanent in Sq. M.	Structures Temp.in Sq. M.	Tombs Number	Wells No.	Business lost	Income Lost	Temporary losses (Specify)	Other (Specify)	Total Entitlements n Pesos
TOTAL																				

* Refer to Form No.1 (on file) as source of above data

Annex G – Form 3

FULL RESETTLEMENT PLAN - OUTLINE EXAMPLE

- 1. Sub-project description (e.g., municipal road link, communal irrigation system, water supply system, etc.)
- 2. Avoidance or minimization of displacement and other adverse social impacts (steps taken to minimize land acquisition by modifying designs and other approaches)
- 3. Amount of land acquisition and number of displaced persons and vulnerable groups
- 4. Full inventory
- 5. Socio-economic survey (sample respondents) of the project area and the proposed resettlement site
- 6. Consultation and participation plan
- 7. Entitlement and compensation package
- 8. Rehabilitation and income restoration measures
- 9. Institutional arrangements, required capacity and implementation skills
- 10. Implementation plan and schedule (e.g., what steps are taken to prepare for resettlement and/or paying compensation; when will it take place; how will it be coordinated with civil works of sub-project; etc)
- 11. Training program (if appropriate, as part of rehabilitation measures for affected people)
- 12. Monitoring (internal and external) and reporting (refer to guidelines in Land Acquisition and Involuntary Resettlement Policy Framework)
- 13. Grievance procedures specific to sub-project and location (see guidelines in Land Acquisition and Involuntary Resettlement Policy Framework)
- 14. Information dissemination plan and transparency measures
- 15. Budgeting and funding source

Annex G – Form 4

SAMPLE CHECK LIST FOR LAND ACQUISITION ACTIVITIES FOR PRDP

	Activity	Responsible						
Annual	Annual Planning by Province/Municipality for Infrastructure:							
1	Prepare list of proposed roads for rehabilitation	PPDO						
2	Submit list to Municipal Multi-Sectoral Committee (MSC)	PPDO						
3	Prioritize proposed roads for sub-project	PPDO						
4	Submit list to PPMIU							
Invento	ry/Survey For Each Subproject with Land Acquisition:							
1	Give public notice of intention to acquire land, and grievance period	PPDO						
2	Send written notification to displaced persons	PPDO						
3	Hold public meeting with Barangay Officials and displaced persons	PPDO						
4	Conduct on-site verification of assets to be acquired with each head of household	PPDO/PDC						
5	Complete Inventory and Entitlement Forms of projected affected families	PPDO/PDC						
6	Consult with displaced persons regarding compensation	PPDO/PDC						
7	Sign Compensation Protocol by authorities and head of household	PPDO/PDC						
8	Submit of Inventory & Entitlement Forms to PPMIU	PPDO						
9	Submit Inventory & Entitlement Forms to PCO and World Bank for approval	PPMIU						
	Under PRDP, submission of required documents will follow a two-step process similar to and integrated with the procurement process (refer to Operation Manual): Step 1 - Submit all completed inventories and entitlement forms as well as documentation on consultation for No Objection #1 Step 2 Submit all duly completed deeds of donation and proof of satisfactory completion of resettlement activities (signed Compensation Protocol) for No Objection #2							
10	Review and determine if full RAP is needed (if impacts are significant where people are physically displaced and more than 10% of their productive assets are lost, then a full RAP is required)	RPCO						
11	If full RAP not required, implement compensation activities	PPDO/PDC						
Full Res	ettlement Action Plan (RAP):							
12	Undertake socio-economic survey and complete form	PPDO/PDC						
13	Prepare full RAP (full RAP includes Inventory, Entitlement, Socio- Economic Survey, Relocation and Compensation Plans, Schedules and Budget)	PPDO/PDC						
14	Submit full RAP to RPCO for review	PPDO						
15	Submit full RAP and RPCO comments to DA PSO and World Bank for	RPCO						
	review and approval							
16	Wait for No Objection from DA and WB for full RAP (same as Step 1 in	DA, World						
	# 9 above)	Bank						

	Activity	Responsible
17	Implement full RAP after approval from DA and WB (same as Step 2 in # 9 above)	PPDO
Award	of Contract for Civil Works	
	The Bank will provide "no objection" to award of contract only after all activities for land acquisition, compensation and resettlement have been satisfactorily completed.	
Monito	ring	
1	On-going Internal monitoring and reporting	RPCO/PPMIU
2	Hire Independent Monitoring Agency	NPCO
3	Start external monitoring	External
		Monitor
4	Submit external monitoring report to World Bank (annually)	NPCO

Annex H – 1

Department of Agriculture Philippine Rural Development Program

Indigenous People Plan (IPP) Template for Subprojects

[Before filling out this Template please read the following:

- This IPP template shall be used in cases where Indigenous Cultural Communities/Indigenous Peoples (ICC/IPs) (i.e. an extant, fully functioning ICC/IP community, either organized or only loosely associated but practicing common customs and traditions different from the mainstream society) are present within the Subproject's influence area <u>and</u>when they are <u>either</u>: (a) not the proponent of the subproject; <u>or</u>, (b) only a minority of the proponents.
- 2. Where ICC/IPs are the majority of the proponents of the Subproject, there is no need of this IPP but a proof that the ICC/IPs are themselves the proponent of the Subprojects must be provided such as but not limited to: (a) Letter of solicitation/application from the ICC/IP communities to the Project Management; <u>or</u> (b) ICC/IP Ancestral Domain Sustainable Development and Protection Plan (ADSDPP) showing that the Subproject is included in the ICC/IP development plan; <u>or</u> (c) a Provincial Commodity Investment Plan (PCIP) showing that the Subproject was proposed by the ICC/IP themselves during a planning which involve consultation with the IP/ICC.
- 3. For subprojects whose proposed sites overlap with any IP Ancestral Domain (AD), this template shall be prepared only if: (a) the Subproject is not included (or not part of) the ADSDPP of the ICC/IP; **and** (b) the NCIP-administered FPIC/CP process (or requirements under Admin Order No. Series of 2006) did not include an IP Development Plan, developed as a separate document or implied in the Memorandum of Agreement with the ICC/IP and the Project.
- 4. Hence, filling out of this IPP Template is required only in lieu of:
- (a) ADSDPP showing the Subproject is part of the ICC/IP plan for their AD;
- (b) Any IP Development Plan resulting from the FPIC/CP Process administered by NCIP under the Indigenous Peoples Rights Act (IPRA);
- (c) Memorandum of Agreement resulting from the NCIP-administered FPIC/CP Process under IPRA, between the Project and the ICC/IP indicating any IP development plan, rents and other benefits or conditionalities in their favor as conditions for issuing the FPIC;
- (d) A Provincial Commodity Investment Plan (PCIP) showing that the Subproject was proposed by the ICC/IP themselves during a planning which involve consultation with the IP/ICC; and,
- (e) Letter or Petition from ICC/IP to PRDP signed by majority of the members of the community, soliciting or applying for the said Subproject;
- (f) Other convincing proofs that the majority of the proponents are members of the ICC/IP.
5. It should be noted that World Bank requirement of "Free and Prior Informed Consultation" and "Broad Community Support" must also be fulfilled. Proofs that a Free and Prior Informed Consultations have been conducted (e.g. Dated Presentation Materials and Minutes of Meetings, Dated Photograph of the Consultation, etc.) must be submitted along with this IPP. This IPP when signed by the ICC/IP community representatives/leaders or in its absence, the documents enumerated in #4 above, would constitute sufficient proof of "broad community support" for the Subproject.]

I. Background Information

[These information shall be taken from the Subproject Feasibility Study/Business Plan and the PCIP, particularly the Section on Social Assessment. It is understood that the Social Assessment conducted under the FS had involved a Free and Prior Informed Consultation with the ICC/IP and proofs that these consultations had occurred shall be provided (see note #5 above) as part of the SP proposal package.]

Name of Subproject:
Type of Subproject (I-Build/I-REAP):
Estimated Total Subproject Cost:
Name/s of the IP Group or Groups:
Name of Municipality:
Names of Barangays/Villages:
Population (Number of Families):
Distance of the Community/Village from the Subproject Site:
Main livelihood sources of the Community:

Benefits accruing to the Community from the proposed Subproject (describe/enumerate if there are any):

Adverse Impact of the Subproject to the Community or Members of the Community (describe if there are any):

Expressed Development Needs of the ICC/IP that are related to the proposed Subproject (describe, if there are any and indicate their respective priorities):

II. Identification and Prioritization of Additional SP Component/Activity for the IP Community

A. Identification of possible additional SP activities

[Choose at least three priority development needs by the ICC/IP from Section I. For each development need, identify any activity/ies that might be funded as part of the Subproject. Fill in the rest of the table. Note that more than one activity may be identified for each development need.]

Expressed	Additional Subproject	Priority	How is this Component/Activity
development need	Component/Activity that	Rank to	related to the Subproject's
of the ICC/IP (from	may address this	the	benefits or impacts? (<i>Check one</i>)
Background Info)	development need	ICC/IP	
		(1 is top	
		priority)	
			[] enhances SP benefits and
			mitigates impacts to the ICC/IP
			[] enhances SP benefits to the
			ICC/IP
			[] mitigates SP's impacts to the
			ICC/IP
			[] not related to the SP
			[] enhances SP benefits and
			mitigates impacts to the ICC/IP
			[] enhances SP benefits to the
			ICC/IP
			[] mitigates SP's impacts to the
			ICC/IP
			[] not related to the SP
			[] enhances SP benefits and
			mitigates impacts to the ICC/IP
			[] enhances SP benefits to the
			ICC/IP
			[] mitigates SP's impacts to the
			ICC/IP
			[] not related to the SP
			[] enhances SP benefits and
			mitigates impacts to the ICC/IP
			[] enhances SP benefits to the
			ICC/IP
			[] mitigates SP's impacts to the
			ICC/IP
			[] not related to the SP

B. Ranking of Possible Additional Activities

[Assign scores to each of the possible additional activities as follows]

Additional	Priority to the ICC/IP	Relations to the SP	Total Score
Subproject	Score = (total	Score = (3 for activities that	
Component/Activity	number of activities	mitigate impact and at the	

that may address this development need	considered – priority rank of that activity)	same time also enhance benefits; 2 for activities that enhance benefits; 2 for activities that mitigate impacts; and, 1-not related to the SP)	

III. Agreed Additional SP Activities/Components to be Funded

A. Determining Priorities and Costs

[Based on II-B, list down activities from highest to lowest scores and indicate their cost estimates].

Score	Additional	Estimated	Cost borne by	Cost to PRDP	Cumulative
(highest	Subproject	Cost	the ICC/IP	(C-D)	Cost to PRDP
to	Component/Activity	(C)	(D)		
lowest)	that may address				
	this development				
	need				

B. Final List of Additional Activities to be Funded

The following are the Additional Activities to be Funded under the Subproject [Using the above, list down the first set of activities whose total cost to PRDP does not exceed 20% of the original SP cost (refer to the Section I for the estimated original cost of the SP. Fill in the additional]:

Additional Component/Activity to be Funded	Cost to PRDP	ICC/IP contribution if any	How would this additional activity/component be implemented?
			(Through a modification of SP design; Through additional item in the Program of Works of SP; Through a separate construction/service contract by

		contractor; Through supply of materials and separate service contract by ICC/IP themselves; Through a separate I-REAP subproject for the ICC/IP; others please specify.)
Total Cost <u><</u> 20% of original SP cost		

IV. Signatories

The preparation of this IPP was facilitated by:

MPMIU/PPMIU Head Date _____

In behalf of the ICC/IP Community, we hereby concur with the above plan and certify that the final list of additional activities was arrived at by consensus among the members of the ICC/IP whose signatures and thumb marks are hereby attached:

ICC/IP Leader/Representative Date

NCIP or LGU Representative Date

(Please attach sheets containing the signatures of the ICC/IP members present during the final consultation. The sheet containing the signature must also have a heading containing the title of the Subproject, the Name of the ICC/IP Group, the Date and the Location of the final consultation conducted.)

Annex H –2

Department of Agriculture Philippine Rural Development Program

Chance Archaeological/Paleontological Finds Procedure for Subprojects

- 1. This procedure shall be made known to the Local Government Unit (LGU) Contract Administrator, the Contractor, the Site Engineer, all Construction Foremen and all On-Site Supervisors.
- 2. A copy of this procedure shall be made available at the construction site at all times.
- 3. Upon discovery of artifacts, bones or other objects of interests, all digging, drilling and other earthmoving activities within the radius of 10 meters from the discovery point shall be immediately suspended. The highest ranking officer of the Contractor present at the site must impose the suspension of activities and immediately inform the LGU Contract Administrator or if not available, the highest ranking LGU officer available.
- 4. The highest ranking officer of the Contractor at the construction site with or without the LGU Contract Administrator or LGU representative shall immediately take photographs of the artifacts, bones or other objects of interest. The photographs must be taken at close-ups and at distant range or at wide-shots placing the objects at the approximately the same point and position where they were found and showing other markers.
- 5. The highest ranking officer of the Contractor at the site must ensure that the site is secured and any artifacts, bones or objects of interests already removed from the site must also be placed in a secured place or container.
- 6. The LGU Contract Administrator and/or highest ranking Officer from the LGU shall immediately report the discovery simultaneously to: (a) the Regional Project Coordination Office (RPCO) Social and Environmental Safeguards (SES) Officer and Engineer or if not available, the highest available ranking Officer of the RPCO; and, consistent with RA 8492, (b) to the National Museum.

The following are the contact numbers of the Archaeology Division of the National Museum:

Email: archaeology@nationalmuseum.gov.ph

Telephone Numbers Curator: (+632) 527-03-08 Administrative: (+632) 527-12-35 Records Section: (+632) 527-11-40

Underwater Telephone: (+632) 527-11-57

Photographs of the finds and the site shall also be sent to the RPCO SES Officer and to the National Museum, preferably through email.

- 7. The highest ranking LGU official at the time shall also immediately inform the local police and civil authorities who, consistent with Section 20 of RA 8492, shall preserve and protect the site from illegal exploitation until such time as the National Museum shall have established control over them.
- 8. Upon knowledge of the discovery and prior validation, the RPCO Head shall also inform the PSO Head and NPCO Head who shall coordinate with the National Museum on further actions or evaluations.
- 9. Depending on the National Museum's evaluation, actions and recommendations, the LGU, RPCO, PSO and NPCO shall then determine the fate of the Subproject.
- 10. Any delay due to suspension or any discontinuation or termination of the Contract through or as a result of the application of this Procedure shall be considered "force majeure" and hence the applicable provisions of the Contractors Contract (particularly, the provisions described in Section 20 of the General Conditions Philippine Bidding Documents) shall be applied.