

MONPI SUSTAINABLE SERVICES (MSS) (CFP 058)
Environmental and Social Management Plan (ESMP)

DESCRIPTION OF PROJECT

The purpose of this partnership is to collaborate in a win-win situation through the creation of certified networks of smallholder coffee suppliers where all partners intrinsically engage in implementing “best practices”. By acquiring a certified status, the partnership will prove to be compliant to international standards on best agricultural, environmental and social practices whilst increasing smallholders’ income through production and sales of certified coffees where the highly sought after certified coffee changes hands at premium prices for all parties.

The main objective of the project is **to provide farmer training and extension services to** smallholder coffee growers in husbandry practices, environmental and social practices that comply with various international certification standards, and have an increasing number of partners / smallholder farmers who are prepared to pass all external certification audits. The certification efforts are targeted for the long-term and aim to be sustainable and to significantly contribute to improving rural livelihoods by improving the smallholder coffee growing practices in PNG and provides access for coffee from remote and hard to access areas into the complex international markets for certified coffee.

Specific activities targeted under the sub-project are as follows;

1. Farmer trainings on certification standards and improved practices by MSS extension staff and create a database of number of trainings given + attendance lists. Topics to be addressed:
 - Knowledge of and implementation of Certification Standards and Certification requirements
 - Best environmental practices, incl. development of conservation areas on project sites
 - Marketing, on how to get smallholder coffee onto the international scene?
2. Regular individual farm inspections and follow up with corrective actions focused on compliance levels of the farm and farming practices in preparation for certification audits towards qualifying and maintaining various certification standards.
3. Identify and develop model gardens / demonstration blocks at all project partner sites and record data of number of model gardens and attributes (acreage, tree count, yields, sales volumes) and mapping.
4. The project will also identify conservation areas in primary forest on all project sites that will facilitate for the protection of wildlife in coffee gardens.
5. Increase project ownership and self-empowerment for project sustainability by training local farmers to become ‘Service Providers’ for their community (focus on extension efforts, certification standards and Coffee Marketing efforts) and maintain database of trained service providers and trainings attended.
6. Monitor developments per farmer and project results in measurable deliverables such as Database of yield, acreage, number of trees and volume of sold coffee per co-partner.
7. Obtain a Certified status of various international Certification Standards for project partners through facilitating external audits.
8. 10% network expansion per year targeted by inviting additional partners (smallholder farmers) to join in the certification program and listing and recording in above mentioned database

A. Potentially adverse Environmental impacts and mitigation measures

They are considered to be respectively ‘minimal’ and ‘absent’.

PPAP will not be funding inputs that could directly impact the environment negatively but will provide support in the provision of agricultural extension services and targeted trainings.

It has been the ongoing objective of MSS to encourage and train farmers to adopt environmentally friendly agricultural practices which is also consistent with the objective of achieving and sustaining certified status for all their farmers.

One of the activities will be to identify conservation areas in primary forest on all project sites for the protection of wildlife in coffee gardens.

Monitoring program and responsibilities

- Staff of the PMU will routinely undertake field inspection of the activities of the Lead Partner and the smallholder farmers included in Co-Partnership agreement to verify the Quarterly reports provided by the Lead Partner.
- The Lead Partners will maintain records of individual farms and the activities carried out during the PPAP intervention stage.

B. Potentially adverse Social impacts and mitigation measures

The social impact is a positive one of increased income to the household. However, it requires more time to be spent in the coffee gardens as opposed to other social activities. The high income from these farming activities will assist in the reduction of HIV/AIDS and other anti-social behaviors by the farming population.

Following are descriptions of possible adverse social impacts identified and mitigation measures;

1. Indigenous peoples policy: This project is an up-scaling of an existing partnership that has been established based on the co-partners' need to improve the productivity of their existing coffee gardens and improve the quality of their produce leading to certification by various certification standards to enter into niche markets . The partnership has resulted from intensive consultation and awareness. There is broad community support for the project.
2. Involuntary resettlement policy: All the lands to be utilized for the partnership activities are owned by the beneficiaries themselves. The smallholder farmer (also a beneficiary) that volunteered to offer a piece of land for constructing a warehouse will sign a certificate of voluntary offer.
3. Negative social impacts: To avoid misuse of income from coffee sales, members of participating households will be trained in planning expenses / budgeting and record keeping. Awareness and information sessions will also be provided to reduce alcohol abuse and HIV/ AIDS prevention. Women will participate fully in all activities and parents of school aged children will be discouraged from involving school children in farm activities during school hours. The availability of a grievance mechanism has been made known to the beneficiaries including the locations of the grievance boxes.

Monitoring program and responsibilities

- Staff of the PMU will routinely undertake field inspection of the activities of the Lead Partner and the smallholder farmers included in Co-Partnership agreement to verify the Quarterly reports provided by the Lead Partner.
- The Lead Partners will maintain records of trainings provided and awareness/information sessions.

Cost Estimates and Source of Funds

Funds to implement the ESMP are an integral part of the Partnership budget. These are specified for the initial sub project investment.

Project Stage	Project Activity	Impacts	When Impact Occurs	Mitigation Plan			Monitoring Plan			Costs
				Mitigation Measure	Who	When to be applied	Indicator	Who	When	
A. ENVIRONMENTAL MANAGEMENT PLAN (EMP)										
1. Rehabilitation	Fencing	Post preparation	During coffee rehabilitation	Prepare fencing posts / sticks	Farmers	Coffee rehabilitation period	Fence completed	Village Extension Officer or EO	Farm visit during rehabilitation period	As per project budget
		Post Planting		Making holes and planting posts / sticks						
	Weed Control	Slashing / hand weeding		Slashing and uprooting weeds	Farmers		Weeds under control			
	Shade Management	Thinning	Rehabilitation period (after weed control and drain maintenance)	Some shade trees are cut-down	Farmer	Rehabilitation period	Adequate shade cover	Village Extension Officer or EO	Farm Visit during rehabilitation period	As per project budget
		Shade Lifting		Lower branches are removed	Farmer		At least 5 – 6m space between top of coffee trees' canopy and lower branches / leaves of shade trees			
	Pruning	Recycle Pruning	First pruning during project implementation if pruning is over-due or after harvesting every season	Old/mature stems of unproductive coffee removed	Farmer	After main harvesting period	Only healthy bearing heads and young suckers	Village Extension Officer or EO	Farm Visit during rehabilitation period	As per project budget
		Maintenance Pruning	After harvesting and every 2 to 4 months thereafter	Sucker selection, de-suckering, and skirting	Farmer	Every 2 – 4 months	2 – 4 stems of coffee per stump / main stem	Village Extension Officer or EO	Farm Visit during rehabilitation period	As per project budget
	Drainage	Removal of debris and soil in drains	After harvesting and	Cleaning drains of matter that filled up drains and spreading this under the	Farmer	Rehabilitation period	Clean drains and removed matter spread under coffee	Village Extension Officer or EO		As per project budget

Project Stage	Project Activity	Impacts	When Impact Occurs	Mitigation Plan			Monitoring Plan			Costs
				Mitigation Measure	Who	When to be applied	Indicator	Who	When	
				coffee						
2. Maintenance	Weed Control	Manual	As necessary on a regular basis	Slashing and uprooting weeds	Farmer	When weeds grow and before seeding	Weed under control	Village Extension Officer or EO	Farm visit	As per project budget
	Shade Management	Removal of new shoots and lower branches	As required	Lower twigs and leaves are removed	Farmer	When required	Adequate shade	Village Extension Officer or EO	Farm visit	As per project budget
	Pruning	Recycle Pruning	Annually and immediately after harvesting	Removal of old unproductive stems	Farmer	Immediately after harvesting	2 – 4 stems of coffee per stump / main stem	Village Extension Officer or EO	Farm visit	As per project budget
		Maintenance Pruning	After harvesting and 2 to 4 month intervals	Handling and de-suckering	Farmer	Every 2 – 4 months	2 – 4 stems of coffee per stump / main stem and selected suckers only	Model Farmer / Village Extension Officer	Farm Visit	AS per project budget
	Drainage	Removal of debris and soil in drains	As required	Cutting but not removal of grass along the sides and bottom of the channel together with the removal of accumulated silt and grass cuttings and clean base of drain to maintain original gradient and depth and spread debris	Farmer	As and when required normally after harvesting	Well maintained drains	Village Extension Officer or EO	Farm visit	As per project budget

Project Stage	Project Activity	Impacts	When Impact Occurs	Mitigation Plan			Monitoring Plan			Costs
				Mitigation Measure	Who	When to be applied	Indicator	Who	When	
				under coffee in garden						
	Manuring	Organic	When organic matter is applied & spread	Spread under coffee bushes	Farmer	After pulp decomposition and availability of organic matter	Healthy coffee trees	Village Extension Officer or EO	Farm visit	Negligible
3. Processing	Pulping	Hand-Pulping (by smallholder)	Harvesting Period	Use of small amounts of water and recycle	Farmer	During coffee season	Water source not polluted	Village Extension Officer / EO	Farm visit	NIL
				Decompose pulp and spread under coffee	Farmer	During and after coffee season	Coffee pulp under coffee trees	Village Extension Officer / EO	Farm visit	NIL
B. SOCIAL IMPACT / ISSUES : SOCIAL MANAGEMENT PLAN (SMP)										
1. Indigenous Peoples Policy	<i>All Co-Partners have signed up voluntarily following free, prior and informed consultations</i>									
2. Involuntary Resettlement Policy	<i>All land used are existing coffee gardens owned by beneficiaries themselves but the owner of the land on which the warehouse will be constructed will sign a certificate of voluntary offer.</i>									
3. Negative Social Impacts	Coffee Sales	Increase in disposable income and spent on unnecessary things such as alcohol	Cash is received in payment for coffee	Training on expenses planning and budgeting for both husbands and wives. Farmer Group adopts a policy of income	Lead Partner	During Farm Management Training for households & Capacity Building Training for farmer groups	List of Training materials offered include training on budgeting	Lead Partner, (PMU)	Quarterly (review reports & random verification inspections)	In line with budget

Project Stage	Project Activity	Impacts	When Impact Occurs	Mitigation Plan			Monitoring Plan			Costs
				Mitigation Measure	Who	When to be applied	Indicator	Who	When	
				expenditure record keeping						
	All Activities	If partnership caters only for men's interest resulting in further marginalization of women	When project is implemented	Ensure that women are involved and share all benefits from the project	Lead Partner	When capacity building trainings are provided, when tools and farm implements are distributed, and encourage both men and women to be involved equally	List of proposed activities include the participation of women	Lead Partner, (PMU)	Quarterly (review reports & random verification inspections)	In line with budget
	During Training sessions	Incremental income could worsen existing problems of alcohol abuse and domestic violence	When income potential increases as a result of more income for the household	If alcohol abuse is rampant, ensure that partnership activities include awareness and counselling	Lead Partner	During training sessions	List of proposed training materials should include alcohol abuse prevention, counselling etc.,	Lead Partner (PMU)	Quarterly (review reports & random verification inspections)	In Line with Project Budget
	HIV / AIDS Training	Possible increase incidence of HIV/AIDS	When income potential increases as a result of more income for the household	If HIV / AIDS is prevalent, ensure partnership activities include HIV / AIDS awareness and prevention seminars	Lead Partner	HIV / AIDS awareness and prevention training	List of proposed activities include HIV / AIDS awareness and prevention campaigns	Lead Partner (PMU)	Quarterly (review reports & random verification inspections)	In Line with Project Budget
	During training sessions / awareness sessions	Possible exploitation of children in the farms, preventing	Project Implementation	Ensure farmers / groups adopt policy restricting employment of	Group Leaders, Lead Partner	During training sessions	Resolution from farmer group adopting a policy on employment of children in the coffee farms (ensuring child schooling	Lead Partner (PMU)	Quarterly (review reports & random verification	In Line with Project Budget

Project Stage	Project Activity	Impacts	When Impact Occurs	Mitigation Plan			Monitoring Plan			Costs
				Mitigation Measure	Who	When to be applied	Indicator	Who	When	
		them from going to school		children during school days			is not disrupted)		inspections)	
	During training / awareness sessions	Absence of grievance mechanism	Project Implementation	Ensure that grievance mechanism is in place and the people are aware of it	Lead Partner, (PMU)	During project implementation	(a) Information materials (b) Grievance boxes installed	Lead Partner (PMU)	Quarterly (review reports & random verification inspections)	Negligible