

Asia-Pacific Network for Sustainable Forest Management and Rehabilitation

PROJECT PROPOSAL

Community Tree Planting Project

Voice of Yongos

April 2017

Project Title Community Tree Planting Project	
Supervisory Agency	Papua New Guinea Forest Authority
Executing Agency	Voice of Yongos

Expected Project Duration: 01/05/17_to 30/04/19 (24 months and timeframe is flexible depending on the approval and disbursement of funds from APFNet)

Target Area: Yongomugl Sub-District, Simbu Province. Papua New Guinea (attach map of project site)

Total Budget(USD)	Expected APFNet	Counterpart Contribution (USD)	
	Grant(USD)	\$45,900.00 Project Grants from UNDP & PDCT	
\$223,581.00	\$177,681.00	VOY in-kind contribution not indicated in budget	

Project Summary:

The community tree planting project was initiated in 2011 to address the high depletion of timber resources including land and habitat degradation over the last 30 years. The goal and objective is to create and promote a community supported reforestation project that contributes to socio-economic and environmental benefits to the people of Yongomugl Sub-District, Simbu Province, Papua New Guinea.

The key project activity is to expand the seedlings production by establishing 4 new nursery sites to produce, distribute and plant 320,000 tree seedlings by 2018, capacity building for farmers and project staff on nursery skills and planting site management, raise awareness to increase the knowledge of students, teachers and community leaders on sustainable forest management practices and to create community initiatives to improve and sustain the livelihoods of landowners, nursery volunteers, tree farmers and the local communities

The trees will be planted on degraded grassland areas as enrichment planting to create secondary forest vegetation to restore land and habitat degradation that will play a vital role for sustainable landscape management and biodiversity conservation to provide opportunities for local communities to get things like medicinal plants, firewood, construction poles, thatching grass, fruits, edible mushrooms and fodders.

The project will provide direct and in-direct benefits to the 10,000 plus rural people (men, women and children) mostly subsistence farmers in the sub-district. The main beneficiaries who will have direct benefits are the 5 landowners, 8 nursery coordinators, 8 nursery volunteers, 50 tree farmers and their families and the local communities whose livelihoods will be improved through income generating opportunities and other spin-off benefits like cash flow circulation to be created by the project.

The local project partners are the local PNGFA Simbu Office, the PNG Eco-Forestry Forum (PNGEFF), the Simbu Farmers Market Limited (SFML), the local tree farmers and landowners who will be heavily involved in the proposed project activities. The PNGFA will provide further funding support to the project under its National Reforestation Program. VOY will also liaise with its initial project supporters like UNDP and PDCT to provide further funding support to sustain the project activities.

Project Proponent(s): Contact: Joe Kelly Bik Organization/Entity: Authority Agency: Papua New Guinea Forest Auth	e e
Prepared and Submitted by Joe Kelly Bik	Reviewed and Nominated by
Project Proponent Signature on behalf of EA Date: 26/09/16	Council Representative Signature Date:

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Acronyms

APFNet Asia-Pacific Network for Sustainable Forest Management and Rehabilitation

UNDP United Nations Development Program
PDCT Pacific Development & Conservation Trust
CBFMP Community Based Forest Management Plan

PNGEFF PNG Eco-Forestry Forum

PNGFA Papua New Guinea Forest Authority

PSC Project Steering Committee
SFML Simbu Farmers Market Limited
CBO Community Based Organization
SFM Sustainable Forest Management

VOY Voice of Yongos NC Nursery Coordinator NV Nursery Volunteer **Extension Officer** EO Forest Officer FO PM Project Manager PS Project Supervisor CO Communication Officer

LOs Landowners TFs Tree Farmers

Project Details

1. Background and Rationale

The lowland natural forest resources like nothofagus, castanopsis and casuarina tree species in the Yongomugl Sub-District, Simbu Province have been highly depleted over the last 30 years to get sawn timber for various construction activities, domestic use such as fencing and fuel wood for rural household use, coupled with clear felling and intensive slash and burn subsistence farming practices. The area is inundated with land and habitat degradation, loss of local ecosystems functions. reduce the quality, quantity and natural standard of food and water systems, because they all are weak and vulnerable, and lose their standard of health wholesomeness.

The whole area is deforested and becomes degraded bare grassland. There are no reforestation activities to restore land and habitat degradation, sustaining the timber resources and fuel wood for the future generations. The increase in population has a major impact on the forest resources, particularly in terms of building construction and fuel wood for household use which is a substantial consumption in the rural village communities. The availability of trees is very limited at the present time to meet the growing demand.

In 2011, Voice of Yongos (VOY) had initiated the Community Tree Planting Project to address the above issues in the sub-district by establishing nurseries to raise and plant more trees to increase and sustain the timber resources, restoring land and habitat degradation, and contribute to mitigate the effects of climate disasters at the local level with funding support from the UNDP and Global Environment Facility under its Small Grants Programme.

The original planting sites were covered by forest and dominated by high mountain tropical tree species such as Nothofagus sp, Podocarpus sp, Lithocarpus sp, Castanopsis sp, Syzygium sp, Zanthomyrthsis sp, Papuacedrus sp and other native timber species, but it was converted to bare grassland due to human disturbance over time through clear felling, logging, shifting cultivation and bush fires. The local tree species has been highly depleted.

The PNG Forest Authority (PNGFA) has introduced couple of commercial tree species in various parts of the country over the years to support and sustain local timber resources. As for the Highlands Region, the Eucalyptus Grandis, Pinus Strobus and Pinus Patula tree species grows at fast rate in moist and watery soil. Currently, these are the most sought after hard and soft wood in the Highlands Region of the country which has high commercial value. As for the ecological perspective, these tree species can regenerate vegetation fast on degraded grassland and enhance soil fertility and improves local biodiversity Below is the current market value for each tree species.

Commercial Tree		
Species	Market Value	
	Natural Stand	Artificial Stand
1. Pinus Strobus	US\$20/m ₃	US\$35/m ₃
2. Pinus Patula	US\$25/m3	US\$35/m3
3. Eucalyptus Grandis	US\$35/m ₃	US\$50/m ₃

These trees were planted on degraded grassland as enrichment planting to create secondary forest vegetation which plays an important and vital role for sustainable landscape management and biodiversity conservation because secondary forest provides opportunities for local communities to get things like medicinal plants, firewood, construction poles, thatching grass, fruits, edible mushrooms, fodder and sawn wood products.

Pinus strobus and pinus patula grows at a fast rate and fairly long-lived trees. Suitable for light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in nutritionally poor soil and it prefers dry or moist soil and can tolerate drought. These two pinus species are able to stabilizes and enhance soil fertility and improves local biodiversity, pinus strobus has chemical properties to heal fresh cuts and its leaves can be used as herbal medicine to cure cervical cancer which will provides more aid to rural mothers.

These three genus species are dominantly introduced as commercial species in the Highlands Region because of high potential market value and can grow well at fast rate because of the suitable climatic and soil conditions and provide canopy shade cover to the native tree and plant species from direct sunlight contact. Under the Food & Agriculture Organization (FAO) soil classification system, the site soil type is located under the Umbrisols group. The soil here have thick, dark colored, humus-rich horizon with low base status (Umbric) because the parent rock that forms the soil is limestone (calcium).

Because of the topographical settings of the planting sites, soil formation is greatly affected. Periods of instability due to gravity and water down slope leads to considerable variation in the soil depth across the site, with steep areas having thin top layer (A horizon) compared to flat sites, which have slightly thicker A horizon. However, the top soil is thicker (30 - 50 cm) and is still more suitable to plant the three mentioned species in the area as we are currently witnessing the smooth and healthy growth of the trees which were planted in 2011.

The demand is very high for both the introduced and natural trees. Nowadays, the people are concentrating more on the introduced eucalyptus grandis, pinus strobus and pinus patula tree species, these are the industrial hardwood and softwood which are now currently on high demand for infrastructure development, as end users are growing, the sawn wood demand is now projected to be doubled in the next 15 years.

Since the initiation of the Community Tree Planting Project in 2011, there have been challenges and opportunities that have now become a VOY's bank of experience in carrying out the project and some of these valuable experiences and responses are;

Working with Landowners and local communities on customary land

The Community Tree Planting Project was implemented with landowners on their customary land. Any project despite who the implementation agencies are, still face major issues with customary landowners if the projects are going to be implemented on customary land. VOY have gained the experience to openly discuss with the local customary landowners regarding land issues, raising public awareness, supporting long-term socio-economic activities, assist in mediating conflict and encouraging partnership with landowners and the rural communities to take ownership of the tree planting sites.

Customary Landowners Consultation

The local people are the customary landowners and they are key stakeholders in the Community Tree Planting Project. Landowners Consultation is a very important process in the project. Thus, VOY takes this process very seriously because the success of the project in terms of community or landowners' participation, mobilization, support and taking ownership depends on it. This has now become one of VOY's strength in the implementation of the community tree planting project.

Lack of Community Awareness on the socio-economic and ecological importance and benefits of trees.

Whilst implementing the Community Tree Planting Project, VOY came to face the sad fact that the over 95% of the communities and landowners lack the knowledge on the long-term socio-economic and ecological importance and benefits of the trees. That ignorance has been the main driving force for deforestation and careless forest clearance over the last 30 years. Raising

community awareness at the village level is a major project activity to educate the rural people on the importance of the tree planting and its benefits.

Helping communities to understand the slow return in cultivating trees than other cash crops and long term benefits.

The local communities are used to short-term benefits or quick benefits of cultivating cash crops and food crops for their own consumption or for selling at the local markets for quick small cash income. Not only that trees take time to grow, the benefits are not short-term but long-term. This is one of the major challenges VOY has been confronted with whilst implementing the project. However, the opportunity is that people are receptive to information and are willing to listen and learn if the project will provide short and long-term benefits to them This is the striking line VOY has been taking and will continue to do so through the landowner and community consultation process.

It is true that, the local tree farmers and landowners will not generate any economic benefits at the early stages of the tree planting activity. VOY will work closely with them to achieve short economic returns through agricultural projects such as vegetable production and marketing. VOY will also encourage intercropping with fruit trees like banana, orange, guava and other crops like taro and cassava for household consumptions and selling at local markets to earn small cash income while nurturing the trees and maintaining the planting sites.

Land Shortage due to Population Growth

Population growth remains a major challenge and putting pressure on Land. Land shortage is a real threat. Therefore, VOY has been very sensitive on this part when implementing the community tree planting project. The plantings are done with the consent of the local landowners, families and communities through the community consultation process. This is an essential part for a successful project implementation, sustainability and ownership.

Demand for Tree Planting

The interests shown by the local people to plant trees is very high as they see the long-term societal, community and environmental benefits. The new project expansion with the support from the APFNet is to meet this very high demand.

Socio-Economic Benefits

Improved Water quality.

Clean water is essential for all human communities. Some communities have access to water supply through water supply projects yet some depend on the creek and streams for water sources. Community water supply projects also depend on the natural source of water from streams and creeks. Deforestation are having a negative impact on the quality and quantity of this essential natural resource. Therefore, the Community Tree Planting Project will improve and protection the important water catchment and water systems.

Increase stock of Firewood

Firewood is the main source (fuelwood) for cooking and lighting in all the rural village communities because it is cheap and available. As the population increases, the demand for firewood has increased thus more woods have been felled which is now depleting the tree resources. Firewood is becoming costlier for those who don't have trees and because of the high demand, the firewood suppliers are causing a lot for forest destruction. There is a need for affordable or easy access to firewood, thus this project will provide this long-term benefits.

Increase timber stocks.

Sawn timbers are essential materials to build semi-permanent or permanent houses to improve the rural housing and lifestyle. The depletion of timber resources has resulted in increase in cost for timber for housing and other construction needs. There is a need to increase timber stocks by planting more trees to meet the growing demand for the future generations through this project.

Cash flow.

The circulation of cash in the village communities through this project has improve the livelihoods of many rural people directly and indirectly through income generating opportunities and other spin-off benefits that was created by the project.

Environmental Benefits for the people

Community tree planting plays an important role in supporting and providing many valuable ecosystem services such as climate stabilization, carbon storage, protection of hydrological function and biodiversity functions. There are also many other forms of benefits humans from the trees. These important values and benefits from the forests has been destroyed due to extensive logging practices and shifting cultivation (subsistence gardening). Through this project the local environment and biodiversity will be improved and the benefits are;

- Improve watershed protection
- Improve local biodiversity and ecosystem services
- Increase carbon sequestration
- Improving land and wildlife habitat.
- Reducing local climate disasters like landslide
- Reduce soil erosion and enhance soil fertility

The full economical value of the community tree planting must be analyzed so that both environmental and economical values are recognized based on the values. Therefore, the following NTFP must be taken into consideration as it provides both direct and in-direct benefits and values;

- a) Direct use values (goods and services directly consumed and used)
- Local NTFP are ornamentals, herbal medicines, thatching grass, fruits, edible mushrooms and fodders
- Recreation
- Waste assimilation
- b) Indirect-use values (benefits arising from ecological systems)
- Biological support links to other species and improve habitats
- Physical protection disaster defense function (reduce flooding, landslips, soil erosion, etc)
- Climate regulation contributes to reduce global carbon emissions
- Global life support supporting human existence and life on earth
- c) Non-use values
- Conserving resources for future generations
- Respecting forest resources, taking ownership to preserve and reduce degradation for future generations

- d) Intrinsic value
- Supporting organisms for human well being

These four (4) values give the community tree planting project its environmental values and benefits. Therefore, all those benefits will be taken into consideration and address so that the local communities reap maximum long-term benefits.

VOY will adopt the existing working arrangements to minimize costs and get maximum benefits. The implementation of the proposed project activities will be based mainly on the project activity work plan. The project manager will coordinate and delegate activities to its partners and project staff, establish network of leaders, share resources, and transfer knowledge, skills and techniques to target beneficiaries. Much of the attention will be given to upscale small-holder tree farmers and encouraging them to plant more high value trees to receive maximum benefits in the future.

The project is in-line with the PNG Forest Authority's (PNGFA) plans to replant 250,000 hectares of land in PNG by 2025 through reforestation and afforestation under its "Secure land, grow trees and manage them on sustainable level" program to create ecological, economic and societal benefits through sustainable forest management.

The PNGFA is encouraging the full participation of local landowners and groups in village communities to involve in community forestry activities. Much of the focus is now in the Highlands region of the country to replant large sections of degraded grassland areas to create secondary forest cover, sustain the timber resources and improving local environmental conditions.

The Community Tree Planting Project complements the priorities and reforestation plans of the PNGFA and contributes to the mission and objectives of the Asia-Pacific Network for Sustainable Forest Management and Rehabilitation (APFNet) to create forest cover, restore and rehabilitate degraded forest areas to enhance forest quality, strengthen ecological functions, increase socio-economic benefits of forests and mitigate the effects of climate change at the local level.

The annual seedling production target is 160,000. The seedlings will be distributed by the project team to small holder tree farmers and they will supervise the planting and support them to maintain planting sites while at the same time assisting the 5 landowners to plant the trees on their 180 hectares of land. VOY will continue to negotiate with interested landowners for new planting sites, undertake surveys on new and planted sites.

To have an effective management approach, VOY will collaboratively develop specific Community Based Forest Management (CBFM) plans of each site, through a participatory model, working with landowners, tree farmers and the local communities living close to the planting sites. The participation of local communities and tree farmers in sustainable management of secondary forest (enrichment planting) will give more power to manage their own trees and resources to sustain the established planting sites for long-term ecosystem services and benefits. This will also reduce costs, creates income opportunities and ensures sustainability, and in turn lead to the better maintenance, protection of planting sites and better utilization of created secondary forest.

The CBFM will be a best practice for secondary forest management by the local communities. The principal landowners will take ownership and manage the planting sites, provide directions and ensure that all the safeguards are in place. The main activities to be done under the CBFM are; seedling planting, boundary clearing, firebreaks building to control and avoid spread of fires, putting up warning signboards, planting fire resistant plants, removing fire hazards like broken glasses, site patrolling to prevent tree theft and other illegal activities and site maintenance

activities like weeding, fertilizing, pruning and replace dead seedlings. The planting sites will be managed for the provision of fuel wood, non-forest products, vegetation restoration and soil conservation, and restoring local habitat.

VOY and its partners will continue to provide guidance, materials and technical support, community incentives, and will conduct more awareness on sustainable shifting cultivation methods and promoting community forestry to the local communities living close to the planting sites.

2. Goal and Objectives

The goal is to create and promote a sustainable community supported reforestation project that contributes to socio-economic and environmental benefits to the people of Yongomugl Sub-District, Simbu Province, Papua New Guinea.

The project objectives are;

- 1. increase the number of project nurseries to produce, distribute and plant 320,000 tree seedlings by 2018
- 2. capacity building for farmers and project staff on nursery skills and planting site management
- 3. increase the knowledge of students, teachers and community leaders on sustainable forest management
- 4. improve and sustain the livelihoods of landowners, tree farmers and the local communities

3. Outputs and Strategic Activities

Below are six (6) key project outputs with detailed activities that will be undertaken by the project staff, project partners, volunteers, landowners, tree farmers, local groups and communities;

Output 1: Four (4) new nurseries sites established & 71 people were trained

Activity 1.1 Establishment of the Nursery Sites

Voice of Yongos (VOY) will establish 4 new nurseries at selected locations in order to strengthen its seedlings production capacity. The 4 new sites were selected based on the following factors; easy access to road and water sources, provision of free land, central location for effective coordination and distribution of seedlings, local support and commitment for planting, security for seedlings, nursery and project materials.

Furthermore, having 4 strategic nursery sites will cut the logistics cost for seedling production, distributions and delivery to effectively covered the whole sub-district. The identified locations were indicated in the project site map (Annex A) are: 1. Laswara, 2. Bolgewa, 3. Terebona, 4. Parua

Activity 1.2 Nursery Management, Maintenance and Quality Control.

a) Management

• The four (4) nurseries will be managed by VOY staffs while the PNG Forest Authority (PNGFA) as the Project Supervising Agency (PSA) will second an officer to provide full technical advice, supervision and support for the project's implementation and will report to the Project Steering Committee (PSC). Nursery training and seedling silvicultural treatments will be taught to the nursery coordinators, assistants and volunteers by the PNGFA and will be monitor and evaluate the whole project activities.

VOY will have eight full-time (8) nursery coordinators and each nursery will have two local
volunteers to support and assist in the seedlings production and distribution. The local
youths, women and church groups will be engaged from time to time to involve in the
nursery activities based on the project activity plan.

b) Maintenance

- Erect fencing around the nursery sites to prevents destruction of seeds and seedlings by animals
- Build green house to store seedlings and seeds sown on trays to prevent infection and destruction by pests, diseases and prevent total sunlight exposure by allowing minimum exposure

Construct seedling beds with concrete and diamond (mesh) wire to be tied over for tube tree seedlings construct nursery sheds to store soil, sand and with mini-storeroom for nursery equipment and materials

c) Quality Control

- Site to be flat (180°)
- Constant water supply
- Direct sunlight to nursery area (seedlings)
- Good drainage
- Nursery site to be at least 0.3 ha 1 ha
- Seeds procured to be of high mortality (80-100 %)
- Seeds to be stored in fridge inside greenhouse to preserve mortality. Different species have different mortality rate, therefore must be properly stored to maintain quality.
- Soils (Umbrisols) and sand from site to be sieved for sowing of seeds
- Soil tubing to be firmly packed with soil (tubing)
- Seeds to sown on seed trays and stored in green house to prevent from infection and destruction by pests and diseases
- Transplanting (prickling) of seedlings from seed tray to poly tubes after 2-3 weeks
- Seedlings to exposed to minimum sunlight for 2 weeks under shade cloth (hardening)
- Seedlings to be watered between 7am 9am in the morning and 4pm 6pm in the evening
- Dead and infected seedlings to be uprooted and disposed
- Seedlings to be placed in wired seed beds for spacing purposes to prevent competition and suppression between seedlings
- Singular species seedlings will be stacked on singular beds in order for easy management (e.g. stocktaking) and reduce spread of infections to other species.

Activity 1.3 Capacity Building for Nursery Workers & Tree Farmers

The PM, PS and the FO will plan, organize and conduct;

(1) 1st nursery skills, management, & quality control training to 36 tree farmers, nursery staff and volunteers at the central nursery in Terebona village for 2 days.

(2) 2nd nursery skills, management, & quality control training to 35 tree farmers, nursery staff and volunteers at the central nursery in Terebona village for 2 days.

The 2 trainings can be conducted anytime in May or in mid June, 2017 depending on the availability of funding from APFNet. The reason to conduct 2 training is that, it will be manageable to have 2 small groups for the training where participants will be fully participating than having a bigger group because of the availability of space at the central nursery site where the training will be conducted and accommodation in the village.

Output 2: Seedlings Production

The target number of seedlings to be produced by the 4 nurseries is 320,000 by 2019. The annual seedling production target is 160,000 and each nursery will produce 80,000 during the project period and it is anticipated that more seedlings will be produced and distributed for planting.

The new nurseries will have the capacity to hold 40,000 plus seedlings at any one time while the 3 old nurseries will be expanded to produce 60,000 plus seedlings annually. Additional seedlings will be produced by individual tree farmers from small nurseries currently supported by VOY.

Activity 2.1 Activities for Seedlings Production

PS, NCs and NVs will be responsible for all seedlings production activities;

- (1) purchase of all seedlings production materials
- (2) collect seed and distribute them to each nursery sites for germination.
- (3) engage the local women, youth or church groups from the local communities on short term basis to collect soil and sand, soil straining and tubing.
- (4) seedlings transplanted into poly bags and assemble seedlings at nursery beds
- (5) watering, fertilizing, weeding, replace death seedlings
- (6) keep daily records of seedling production

Activity 2.2 Seedlings Distribution

Distribution of seedlings will be strictly controlled according to VOY Seedlings Distribution Procedures as stipulated below.

- 1. Seedling Request Form to be filled and signed by the recipient(s) and received by a VOY official
- 2. Request Form has to be approved by VOY Project Manager or Project Supervisor
- 3. Seedlings Release Form must be signed by a VOY coordinator in charge of the nursery and the delivery transport driver.
- 4. Seedling Delivery Form must be signed upon the delivery of the seedling on planting site by a VOY coordinator, delivery driver and the local recipient(s)
- 5. Planting Confirmation Tally Sheet has to be finally signed by a VOY coordinator and the local recipient(s).
- 6. A Computerized Seedling Accounting System will be set-up so that all the forms, dockets and tally sheets data will be updated regularly.
- 7. After releasing of seedlings from each nursery, staff will conduct a seedling stocktaking to confirmed the remaining number of seedlings and species still in stock.

Seedlings will be distributed in a way that all information concerning tree farmers, planting area (sites) and other activities involving the project will be closely monitored. Groups to be targeted are;

- Landowners
- Tree Farmers
- Interested tree farmers
- Individuals and Institutions

Output 3: Plant 180 hectares on degraded grassland areas

Activity 3.1 Baseline Study & Monitoring

VOY will conduct pre-planting baseline study for each planting sites to collect baseline data prior to tree planting activities so that it will provide quantitative information on each site to serve as basis to assess change of re-vegetation on the state of the physical environment on the planting sites. Signs of return of re-vegetation will take time but indigenous local species that will regenerate much sooner will be such plants as Ficus sp Alpinia sp, Trema sp, Zingiber sp, Marcaranga sp. These are secondary species that dominate quickly after the primary forest is cleared.

The information will be also used to monitor the project's progress and impact on the contribution to the environment, biodiversity and local communities. Day to day monitoring and field assessments will be employed to evaluate the project's progress. VOY will also conduct a post-planting site assessment for each planting site 24 months after planting to assess changes and make comparison on vegetation changes and below are the process to follow;

- (a) Pre-Planting Photographs at least a week before clearance for planting
- (b) Planting Photographs straight after planting
- (c) Post Planting Photographs 12-24 months after planting

Activity 3.2 Site Survey & Planting

PS and FO will conduct;

- (1) survey new planting sites
- (2) supervise planting on each new sites with baseline arrangements, digging and planting
- (3) engage local communities and groups to involve in the planting by carrying seedlings to the planting sites

The supplied seedlings will have their planting sites surveyed and mapped. They will be registered under the VOY's tree farmers list so that goods and services generated by the project will be distributed equally and to the rightful project participants. Information about the project will also be easily gathered for appraisal, monitoring and planning.

Activity 3.3 Site Management & CBFM Plan

The PS and FO will assist LOs to

- (1) develop the community based forest management plan (CBFM) for each site.
- (2) engage local groups to assist to use CBFM plans for site maintenance activities like boundary clearing, firebreaks, putting up warning signboards, plant fire resistant plants, removing fire hazards like broken glasses, site patrolling to prevent tree theft, weeding, fertilizing, pruning, replace death seedlings

Output 4: Increase the knowledge of 2000 students & 8000 people on sustainable forest management

Activity 4.1 Poster Design

PM and PNGEFF will engage

- (1) a local graphic artist to design a couple of awareness posters,
- (2) sample posters will be review by PM, PS, FO and PNGEFF and select one sample for printing

Activity 4.2 Poster Printing

PM and PNGEFF will

- (1) engage one reputable printer after getting 3 different quotes
- (2) print, packaging and deliver 5000 posters

Activity 4.3 Social Media

The PM, PS and PAA will

- (1) upgrade the current FaceBook page
- (2) upload pictures and stories of project activities,
- (3) respond to feedbacks and comments from followers,
- (4) record number of visits, likes and shares of each picture or stories posted.

Activity 4.4 Awareness & Poster Distribution

The PM, FO and PNGEFF will

- (1) organize, plan, raise public awareness in 7 schools & 15 villages
- (2) distribute posters to 7 schools and 15 villages on tree planting

Activity 4.5 School Essay & Poster Competition

The PM and PNGEFF will

- (1) organize and coordinate school essay and poster competitions,
- (2) selection will be done by a team of local experts
- (3) present prizes to winning entries.
- (4) competition is part of the monitoring process to determine the insights of student's knowledge and understanding on trees and its benefits, and the progress and impact of the awareness activities

The competition will involve 7 schools (2 high schools and 5 primary schools) where 2000 plus students will be attracted to enter the essay and poster competitions. It will assist students to learn and develop their understanding on environment and the important of tree planting and its benefits. An awareness education program will be carried in these schools before announcements will be made for the competition. A team of local experts will be asked to screen and select the winning entries. The winning entries will be published in newsletters of our partner organizations. The potential topics to highlight is the importance of tree planting, what are the long term environmental and socio-economic benefits to the local communities and how the trees can contribute to reduce the greenhouse gas emissions.

Activity 4.6 Seminar for Community Leaders

The PM, PS, FO and PNGEFF will

- (1) organize, plan and conduct a seminar for 60 community leaders & village court officials
- (2) conduct random interviews to evaluate seminar presentations and information shared
- (3) increase the knowledge of community leaders on sustainable forest management
- (4) influence village court officials to enforce tougher penalties on bushfires. These leaders are in better position to dissemination information in their respective village communities.

Activity 4.7 Seminar for Teachers

The PM, PS, FO and PNGEFF will

- (1) organize, plan and conduct a seminar for 75 school teachers to increase their knowledge on sustainable forest management
- (2) conduct random interviews to evaluate seminar presentations and information shared
- (3) influence them to teach students on the importance of tree planting and its benefits as they are in a very good position to educate and change the attitudes and behaviors of students.

Activity 4.8 Merchandise for Publicity

The PM and PNGEFF will

- (1) purchase 100 polo shirts, 200 tee shirts and 100 caps
- (2) logos will be embroidery
- (3) distribute to project staff, LOs, TFs and others.

The project team will consult with APFNet on the layout of the logos on the shirts and caps before embroidery.

Output 5: Improve and sustain the livelihoods of 71 families and local communities

Activity 5.1 Vegetable Production Training

The VOY and SFML will

- (1) plan, organize and conduct 1_{st} vegetable farming training to 36 family members of the landowners, tree farmers, nursery volunteers and other members of the communities at Laswara village for 2 days.
- (2) plan, organize and conduct 2_{nd} vegetable farming training to another 35 family members of the landowners, tree farmers, nursery volunteers and other members of the communities at Parua village for 2 days.

The selected vegetables for training are bulb onion, carrot and cabbage, the reason is that, these vegetables are on high demand in the country from major wholesalers, supermarkets and catering firms. The local markets are readily available and accessible so it will bring maximum benefits to the tree farmers and their families. The 2 trainings will be conducted in August, 2017 at 2 different locations. The reason is that; it will be manageable to have 2 small groups for the training at these locations due to availability of space for accommodation and local materials for the training in these villages.

Activity 5.2 Extension, Marketing & Support Services

VOY and SFML will carry out

- (1) all extension services after the trainings,
- (2) purchase and distribute seeds and supplies to those who attended the training for initial vegetable production
- (3) assist and organize farmers to harvest, packaging and arrange transport to take the produce to SFML purchase depot for payment.
- (4) coordinate and organize with PNG Micro Bank to open bank accounts for farmers so that they can save their income from the sales for future use.

Output 6: Effective implementation of the project activities

Activity 6.1 Internal Monitoring & Evaluation

PM will

- (1) engage a local consultant to conduct internal monitoring & evaluation of project activities and administration
- (2) provide finding reports to VOY

Activity 6.2 Auditing

PM will

- (1) engage a local auditing firm to audit its accounts on an annual basis.
- (2) present the final audit report to VOY

Activity 6.3 External Project Evaluation

In line with the APFNet project management regulations, APFNet will organize a terminal evaluation respectively. Relevant experts will be recruited to conduct the evaluation and expenses will be retained by APFNet.

4. Risks and assumptions

Possible Risks	What to do (Risk	Who to take actions
	Management)	
Bushfires	Build firebreaks, conduct public	VOY, PNGFA, District
	awareness rising & put up sign	Administration,
	posts, plant fire resistant species	landowners, village court
		officials,
Landslips & road blocks	Engage volunteers &	VOY, volunteers & local
	communities to clear the	communities
	landslips	
Lack of landowner support &	Engage direct meetings with	VOY, & partners
participation	landowners & family members	
Land disputes among families	Landowner consultation &	VOY, village court & land
	mediation	mediators
Loss of funds through	Seek funds or in-kind support	VOY & partners
exchange rate	from partners or review work	
	plan to minimize cost	
Project personnel sick or die	Reschedule activity	VOY
Unavailability of seeds	Buy seeds in bulk & store it	VOY& partners
Seed mortality	Supervise all planting	VOY & partners

5. Human Resources and capacity assessment

Name	Position	<u>Organization</u>	Specific Tasks
Joe Kelly Bik	Project Manager	VOY	Coordinates & manage the overall project
			implementation
Gaima Takai	Project Supervisor	PNGFA	Will be seconded to the project by PNGFA
			to supervise all project activities
Peter Kunma	Nursery Coordinator	VOY	Coordinates all nursery activities
Peter Mulua	Nursery Coordinator	VOY	Coordinates all nursery activities
Alice Winogl	Nursery Coordinator	VOY	Coordinates all nursery activities
Apo Siune	Nursery Coordinator	VOY	Coordinates all nursery activities
Simon DamaKlen	Nursery Coordinator	VOY	Coordinates all nursery activities
Johnny Boi	Nursery Coordinator	VOY	Coordinates all nursery activities
John Tisa	Nursery Coordinator	VOY	Coordinates all nursery activities
Florence Laswara	Nursery Coordinator	VOY	Coordinates all nursery activities
Samson Kupale	Communication	PNGEFF	Provide technical advice & support public
	Officer		awareness education programs
Ben Kimbe	Extension Officer	SFML	Provide support for vegetable training,
			production & marketing

VOY became a registered member of the PNG Eco Forestry Forum (PNGEFF) in 2007, a national membership based organization whose role is to advocate and promote sustainable forest management and is recognized locally and internationally. The Director of VOY (Joe Kelly Bik) was appointed by the PNG Forest Authority (PNGFA) in 1994 to represent the community-based organizations (CBOs) on the Simbu Provincial Forest Management Committee (SPFMC). VOY had been involved with the two (2) organizations for a long time apart from the other project partners.

The composition of the local project partners are; Simbu Provincial Forest Office, the PNG Eco-Forestry Forum (PNGEFF), Simbu Farmers Market Limited (SFML), tree farmers and the local landowners. Below is a brief on the capacity of each project partner to deliver specific project activities with shared responsibilities to deliver benefits to the 126 families and the local communities;

- 1. The PNGFA as the supervisory agency of the project will engage its local office (Simbu Provincial Forest Office) to provide technical support and advise, involve in all project activities and will assign one of its extension officer to work closely with VOY in the project. The provincial office involves in community forestry extension programs and has the experience and capacity to provide strong supervisory role to implement the project activities. The PNGFA will involve in all aspects of the project by providing training on nursery skills, quality control of seedlings, fire prevention, planting site management, planting and facilitating community awareness, seminar and workshop.
- 2. The PNG EFF is a strong advocate of sustainable forest management in PNG and involves in lobbying, advocacy, publicity and awareness. PNGEFF will work closely with VOY in the awareness and publicity component to delivery information and awareness on the importance of tree planting and its socio-economic and environmental benefits to communities through a participatory shared learning process, beginning with local knowledge and needs, in which information prepared by PNGEFF to be jointly presented with project partners to the communities. The PNGEFF has the experience, capacity and technical communication skills to involve in the publicity, awareness, training and capacity building activities. PNGEFF will also promote the project activities

through their quarterly newsletter, as they normally do to support the activities of the member organizations.

- 3. The Simbu Farmers Market Limited (SFML) is a marketing company established by the Simbu Provincial Government (SGP) to create market opportunities for rural people to sell their fresh food produce. The role of SFML as a buyer is also involves in extension services to assist farmers in all aspects of vegetables farming to produce high quality produce for marketing. The 10 landowners, 100 tree farmers and the 16 nursery volunteers had shown personal interest with willing heart to involve in the project by providing land, labour and commitment. VOY will not provide payment or compensation as it will set a bad precedence but as a token of appreciation will create income generating opportunities for them as the market is readily available. SFML will work closely with VOY by providing extension services, training and marketing to 126 families and other members of the local communities to grow and sell fresh food produce to SFML to sustain their livelihoods.
- 4. VOY and the PNGFA will provide training on basic nursery skills and site management to the 10 landowners and the 100 tree farmers to enhance their capacity to take ownership and manage their own planting sites to ensure sustainability and better utilization of the trees. The main activities to be done under the CBFM are; seedlings planting, boundary clearing, building firebreaks to control and avoid spread of fires, putting up warning signboards, plant fires resistant plants, removing fire hazardous like broken glasses, site patrolling to prevent tree theft and other illegal activities and site maintenance activities like weeding, fertilizing, pruning and replace dead seedlings.
- 5. VOY has gained a lot of project implementation experience over the last 5 years with the tree planting project and has the capacity to implement the planned project activities, with physical assets like office building funded by the New Zealand AID in 2009, office equipment, permanent nursery sites and local technical expertise. VOY has established local networks within the local communities, has the dedicated support of 10 full-time project staff and 16 nursery volunteers. VOY is positioned well to coordinate and implement the project activities with the support from Simbu Provincial Forest Office, the PNG Eco-Forestry Forum and the Simbu Farmers Market Limited.

The Project Manager is fully responsible for the overall implementation of all project activities; his role is to delegate project activities to partners and project supervisor, and communicate between them so that partners and project supervisor undertakes project activities with other stakeholders on the ground. He is also responsible for ensuring proper staff reporting, synthesizing the reports into project reports, and reporting to the APFNet, and will work, as much as possible, according to the work plan.

- **6.** VOY will have the following people as the Project Steering Committee (PSC) members due to the nature of their position and involvement during the project implementation period and also their valuable contribution, inputs and support will be sought to sustain the project;
 - 1. Joe Kelly Bik, Director of Voice of Yongos
 - 2. Arnold Mundua, Provincial Forest Officer, PNG National Forest Authority
 - 3. Bal Numapo, Chief Executive Officer, SinaSina Yongomugl District Administration
 - 4. Ben Kimbe, Extension Officer, Simbu Farmers Marketing Limited
 - 5. Anna Gola, community representative
 - 6. Apo Siune, representing local tree farmers
 - 7. Representative from APFNet (observer)

6. Budget, funding resources and financial management

Funding Source	Amount	Status of Disbursement and Comments
UNDP/GEF	US\$49,111.33	US\$14,733.40 was released in August 21, 2015
Small Grants		and the remaining balance is US\$34,377.93 is yet
Program		to be released so this amount is included in the
		budget as counterpart contribution
Pacific	US\$10,000.00	The grant agreement was signed on 14/09/16 and
Development &		currently awaiting disbursement of funds, its
Conservation		included in the budget as counterpart contribution
Trust		so hopefully the funds will come in October, 2016

To maximize the cost, the project manager will liaise and work closely with project staff, partners and volunteers to make use of locally available materials and existing resources, control activities and expenses, request project partners for in-kind support through resource sharing. Identify 3 potential suppliers and procure three estimate quotes before negotiating and finalizing one based on reasonable quote and reliability to save costs and time. VOY will maintain a stock and inventory list to prevent excess or unnecessary purchase and reduce wastage.

As a small community based organization (CBO), VOY has operated one single bank account to access and manage project funds but it creates separate Cash Books for each donor to register bank deposits and drawdown of funds which helps to keep records of all transactions. The cashbook is regularly maintained and updated so cash balances are also inked up on daily basis which helps the Project Manger to check and sign the cashbook on monthly basis to avoid overspending and to control expenses within approved budget line items.

VOY will create a separate cashbook for APFNet funding to procure timely and accurate financial reports that will create a stable financial management on drawdowns of funds and transactions, to ensure that funds are used in accountable and correct manner based on the itemized and approved budget. The Project Administration Assistant (PAA) will assist the Project Manager by handling the cashbook and all payments will have vouchers to be printed and will have an individual serial number to maintain daily records of payments, invoices and receipts. The PAA will prepare payment vouchers and it be only approved by the Project Manager, the payee also signs the voucher on receiving the payment.

We use Excel in the project office to keep track of all project expenses and all our project financial reports are in Excel format so it is devoid of any alteration, in case of any mistakes, it is corrected by passing an entry of rectification. The PAA will prepare and present all necessary information to the auditor for auditing under certified auditing standards of the country.

The counterpart contribution from UNDP/GEF Small Grants Programme and the Pacific Development & Conservation Trust (PDCT) is supporting the on-going project activities currently under the implementation for specify project activities. The project outcomes from APFNet will be reported separately so that each donor know the value of their contribution towards the project. based on the funding and scope of activities of each donor

The funding support from APFNet will be used for the new proposed project activities which will be undertaken separately but complimenting on the expansion of the tree planting

project. VOY will provide separate details of the project value and outcomes directly to APFNet.

7. Monitoring and evaluation

Please kindly see the attached internal Monitoring & Evaluation tool that will be used by VOY to track and monitor the project activities and its impacts that will form the basis to prepare project reports. The project will be appraised quarterly and annually by VOY and the project partners based on the following methods;

- a) VOY will use an appraisal form with specifications to appraise the seedling production, distribution, planting, nursery activities, capacity building, training and awareness
- b) VOY will assess and do baseline study on planting sites before planting
- c) PNGFA will conduct interviews with project partners, land owners, tree farmers and the local communities to get their opinions and comments to assess the project activities
- d) In line with APFNet project management regulation, APFNet will organize a terminal evaluation.

8. Dissemination and sustainability

VOY plans to promote and disseminate the importance of community tree planting and encourage sustainable forest management practices to the people of Yongomugl Sub-District through community awareness education activities. The specific target audiences are the;

- 1. the primary target audience are the school students with the communication objective to increase their knowledge by disseminating more information on the functions of trees and the importance of planting more trees. The key message for the students is to learn and understand the functions of trees so that they have a better knowledge to act responsibility. To measure the effectiveness, school essays and poster competitions will be held to determine the knowledge and understanding of the students. Six months after the face to face awareness campaigns, at least 80% of the students are able to write good essays and produce posters, and getting scoring good marks
- 2. the secondary target audience are the village community leaders, village court officials and teachers with the communication objective to educate them to have a better knowledge and understanding on the current situation and needs in the area. Two (2) separate seminars will be conducted with the key message to plant more tree, straight after the seminars, the community leaders will be able to educate the people in their respective village communities, the village courts set tougher penalties on bush fires and the teachers continue to educate and teach students on the importance of tree planting through the agricultural lessons.
- 3. the other secondary audience is the local people in the village communities with the communication objective to have an interactive face to face mobile awareness campaign to educate the illiterate people with the key message to put a stop to cutting down of trees and plant more trees for their children, 3 months after the awareness campaigns, at least 90% of the people plant 20, 000 trees and change their behavior.

VOY had developed 3 key messages for the specific target audience based on the current situation and needs in the area which fits into the project objective as the audience will be hearing, believing and accepting because they have seen the current situation. The communication tools that will be used to disseminate the message is interactive communication through face to face public awareness campaigns in schools and villages, seminars, printing and distribution of educational posters, conducting school essay and poster competitions. The use of social media (facebook) is to promote the project activities to the outside world.

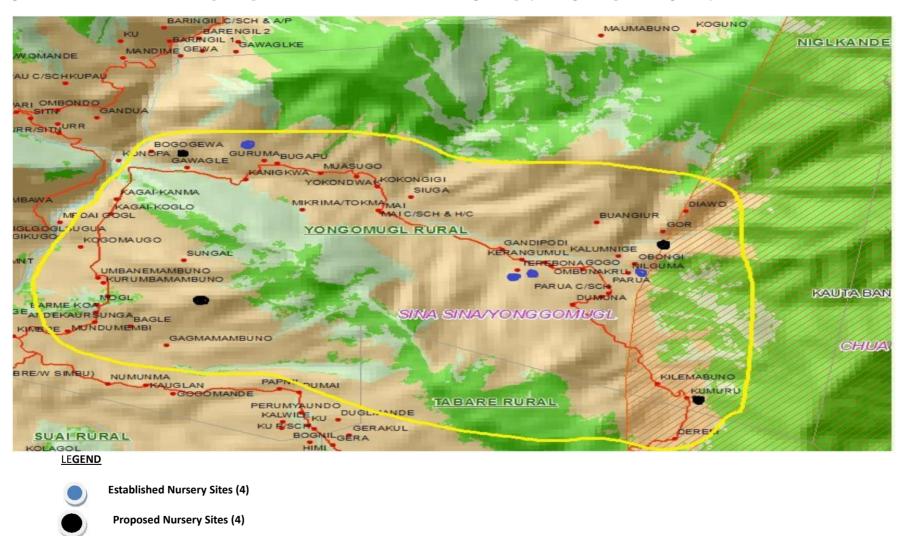
The extend of the project's impacts is to encourage behavioral change at the community level, promoting and supporting tree planting, influence village court officials to set and enforce tough penalties for people who destroy local environment or setting bush fires. The students and local people have a better knowledge on the importance of tree planting.

This is a viable project and it is very important to generate sufficient funds to sustain the project activities and also to meet the administrative costs beyond the funding period. The project is generating more support as the tree planting becomes a project brand over time since its inception in 2011.

VOY will sign a Memorandum of Agreement with the PNGFA in October, 2016 to provide further technical and funding support over the next three (3) years under the National Reforestation Program while technical support will be provided by the PNGFA Office in Simbu VOY will also liaise with its initial project supporters like UNDP and PDCT to continue supporting the project activities.

Annex A: Project sites map and relevant information

The brown colour indicates the bare and degraded grassland areas with less trees and shrubs, there's less than 10,000 eucalyptus grandis with some casuarina and pinus strobus trees growing. The land use activity is subsistence farming. This project is easy to implement and can be replicated in other nearby districts and provinces. There are 120,000 trees growing since 2011, raised and distributed for planting by VOY, planting in small plots by tree farmers in various location.



Annex A: Project sites map and relevant information

Annex B: Project logical framework

Items	Intervention logic	Objectively verifiable indicators of achievement ⁵	Sources of information and means of verification ⁶	Assumptions ⁷
Goal(s) ¹	To create and promote a sustainable community supported reforestation project that contributes to socio-economic and environmental benefits to the people of Yongomugl Sub-District, Simbu Province, Papua New Guinea.	320,000 seedlings produced, distributed and planted 180ha of degraded grassland areas replanted Livelihoods of 71 households improved	The following data source and methods will be used: Baseline study report Seedling production, distribution and planting report Quarterly internal reports Mid-year reports Annual reports External Evaluations	Positive funding, logistics & technical support from PNGFA Favorable climate conditions and weather patterns. A prolonged dry spell or rainy period will be of disadvantage of the project. Timely release of project funds will ensure effective implementation of project activities
Objectives ² i	1.increase number of nursery sites to produce, distribute and plant 320,000 tree seedlings by 2018 2.capacity building for farmers and project staff on nursery skills and planting site management by April, 2017 3.increase the knowledge of students, teachers and community leaders on sustainable forest management by 2017 4.create incentives to improve and sustain the livelihoods of farmers and local communities	4 nursery sites established 4 trainings conducted awareness activities carried-out income incentives created seedlings produce and planted program implementation executed as planned	Activity reports Training reports Seminar reports Monitoring reports Baseline survey report External evaluation report	Project partners remain supportive throughout the project duration Timely release of project funds Favorable climate conditions and weather patterns.

Expected outputs ³ Output 1 Activity 1.1	Four (4) new nurseries sites established & 71 people were trained Identification of the Nursery Sites	Site visits, identified. prepare nursery sites, purchase project materials, econstruction of nursery sheds and beds Project staff and farmers were trained, skilled and equipped to actively execute project activities	Nursery establishment reports Training reports Evaluation & feedbacks	Arrange project materials in advance Manage land issues Reschedule activities
Activity 1.2	PM, PS and Nursery Coordinators will work together to identify the best nursery sites based on the following factors: (1) Easy access to road and water sources (2) No land disputes (3) Central location for effective coordination and, and distribution (4) Local support and commitment (5) Security for seedlings Establishment of Nursery Sites The PM, PS, NC and local communities to work together to establish the 4 new nurseries; (1) Engage local people for site preparation; clearing, site works and fencing. (2) Purchase and transport project materials to nursery sites (3) Engage local carpenters to construct nursery sheds, greenhouse and nursery beds	2 visits are made to each proposed nursery sites for assessments 4 nurseries fully established with the capacity to function 2 trainings conducted for 71 people, well trained and equipped to build nurseries and are able to manage nurseries and practice community forest management	Meeting records for project implementation/plans Site assessment reports Site construction updates and reports. Nursery activity reports Training reports	Project activity reports are destroyed by virus Unavailability of project materials, may delay construction There is less likely of landslide with the newly constructed road Participants taking initiatives to build their own nurseries
Activity 1.3	Capacity Building for Nursery Workers & Tree Farmers The PM, PS and the FO will plan, organize and conduct; (1) 1st nursery skills, management, & quality control			

	training to 36 tree farmers, nursery staff and volunteers at the central nursery in Terebona village for 2 days. (2) 2 nd nursery skills, management, & quality control training to 35 tree farmers, nursery staff and volunteers at the central nursery in Terebona village for 2 days.			
Output 2	Production & distribution of 320,000 tree seedlings	Purchase of seeds and poly bags Seed germination Soil collection and tubing Seedlings transplant into poly bags Seedlings assembled at beds Daily record of production	Seedling production record Nursery activity reports Number of poly bags used	Favorable climate conditions and weather patterns.

Activity 2.1	Seedlings Production.			
Activity 2.2	PS, NCs and NVs will be responsible for all seedlings production activities; (1) purchase of all seedlings production materials (2) collect seed and distribute them to each nursery sites for germination. (3) engage the local women, youth or church groups from the local communities on short term basis to collect soil and sand, soil straining and tubing. (4) seedlings transplanted into poly bags and assemble seedlings at nursery beds (5) watering, fertilizing, weeding, replace death seedlings (6) keep daily records of seedling production Distribution of seedlings	Record of seeds purchased and distributed to the sites for germination Daily record of seeds transplant to the poly bags monthly production is 1666 seedlings per nursery Annual production is 20,000 seedlings per nursery	Daily record of seedlings Daily record of transplant Monthly production record Nursery activity reports Number of poly bags used Photographs of seedlings	Regular monitoring of nursery sites, seed germination preparation and transplanting to the poly bags.
	NCs and NVs will			
	 (1) create seedlings traceability records (2) create distribution list and types of species supplied (3) control seedlings stock (4) distribute seedlings 			

Output 3	Plant 180 hectares (199,980 seedlings) on degraded grassland areas	Undertake baseline survey Develop CBFM plans Planting site surveys	Baseline survey report Number of seedlings planted Seedlings distribution list Maps of planting sites CBFM plan Photographs of planting	Land disputes are managed Landowners use CBFM plans Community support Fires are managed
Activity 3.1	Baseline Study & CBFM plans			
	The PM, PS and FO will conduct; (1) baseline surveys on 5 planting sites of the 180 hectares of land voluntarily provided to get quantitative information on the areas before planting so that the information will be used to monitor the project's progress and impacts	Physical area surveys is done and CBFM plans developed for 5 sites Awareness activities conducted near 5 planting sites 5 warning sign posts are erected	Awareness activities reports Reports of the survey and recommendation Reports of the local communities involved in the planting	Posters or warning post are subject to destruction from public No fire hazard that will potentially destroy the planting sites No presence of pest and
Activity 3.2	(2) develop the community based forest management plan (CBFM) for each site.Site Survey & Planting	at planting sites 5 planting sites surveyed is conducted for 180 hectares of land for planting	Baseline survey reports CBFM Plans Records of trees planted Map of surveyed planting	Appropriate law enforcers will be engaged if destruction are identified
	PS and FO will conduct;	CBFM plans are used.	sites Photographs of planting	with CBFM
	(1) survey new sites	Big number of communities and	0 1 1 1 1 1 1	Community taking

	(2) supervise planting on each new site.(3) engage local communities and groups to involve in the planting by carrying seedlings to the planting sites, arrange baselines, digging and planting.	local groups are involved in the planting		ownership of the project vision and run with it.
Activity 3.3	Site Management			
	The PS and FO will assist LOs to			
	(1) use CBFM plans for site maintenance activities like boundary clearing, firebreaks, putting up warning signboards, plant fire resistant plants,			
	(2) removing fire hazards like broken glasses, site patrolling to prevent tree theft,(3) weeding, fertilizing, pruning, replace death seedlings(4) engage local groups to assist			
Output 4	Increase the knowledge of 2000 students, 75 teachers, 60 leaders & educate 8000 people on sustainable forest management practice	Production & distribution of posters Conduct public awareness Conduct school competitions Conduct seminars	Awareness activity reports Numbers of posters Number of competition entries Seminar reports	Favorable weather conditions Approval from education office Favorable response from schools Support from local people

Activity 4.1	Poster Design			
	PM and PNGEFF will engage (1) a local graphic artist to design a couple of awareness			
Assistant A.2	posters, (2) sample posters will be review by PM, PS, FO and PNGEFF and select one sample for printing	5000 posters are developed and distributed to 25 schools and 15 villages	Comment and feedback posts from public	Reliable printing sources are arranged or printer is establish to aid printing
Activity 4.2	Poster Printing	Ü	schools activity report Records of awareness created	needs
	PM and PNGEFF will	Project activities are uploaded to the facebook page	or pictures	Teachers teach students on the importance forest
	(1) engage one reputable printer after getting 3 different quotes	Awareness are conducted to 7	poster distribution list	management
	(2) print, packaging and deliver 5000 posters	schools and 15 villages		Village court officials
Activity 4.3	Social Media	60 community leaders and village court official increase their	Reports of awareness conducted to the schools and village communities	enforce tougher penalties for bushfire
	The PM, PS and PAA will	knowledge on sustainable forest and management and	Reports of seminars	
	 upgrade the current FaceBook page upload pictures and stories of project activities, respond to feedbacks and comments from followers, record number of visits, likes and shares of each 	75 school teachers receive knowledge and skills through seminar	conducted to the community leader, village court officials and school teachers.	
	picture or stories posted.	100 polo shirts, 200 tee shirts and	Distribution list of merchandize items	
Activity 4.4	Awareness & Poster Distribution	100 caps are distributed to project staff and others	Annual activity report from	
	The PM, FO and PNGEFF will		PNGEFF	
	 (1) organize, plan, raise public awareness in 7 schools & 15 villages (2) distribute posters to 7 schools and 15 villages on tree planting 			
Activity 4.5	School Essay & Poster Competition			
	The PM and PNGEFF will			
	(1) organize and coordinate school essay and poster			

	competitions, (2) selection will be done by FO and PM		
	(3) present prizes to winning entries.		
	(4) competition is part of the monitoring process to		
	determine the insights of student's knowledge and		
	understanding on trees and its benefits, and the		
	progress and impact of the awareness activities		
Activity 4.6	Seminar for Community Leaders		
	The PM, PS, FO and PNGEFF will		
	(1) organize, plan and conduct a seminar for 60		
	community leaders & village court officials		
	(2) conduct random interviews to evaluate seminar		
	presentations and information shared		
	(3) increase the knowledge of community leaders on		
	sustainable forest management (4) influence village court officials to enforce tougher		
	penalties on bushfires. These leaders are in better		
	position to dissemination information in their		
	respective village communities.		
Activity 4.7	Seminar for Teachers		
receivity 1.7	ociminat for reactives		
	The PM, PS, FO and PNGEFF will		
	(1) organize, plan and conduct a seminar for 75 school		
	teachers to increase their knowledge on sustainable		
	forest management		
	(2) conduct random interviews to evaluate seminar		
	presentations and information shared		
	(3) influence them to teach students on the importance of tree planting and its benefits as they are in a very		
	good position to educate and change the attitudes		
	and behaviors of students.		
Activity 4.8	Merchandise for Publicity		
	The PM and PNGEFF will		
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	 purchase 100 polo shirts, 200 tee shirts and 100 caps logos will be embroidery distribute to project staff, LOs, TFs and others. 			
Output 5	Improve and sustain the livelihoods of 71 people and their families	Organize and conduct training for vegetable production & provide initial start-up seeds and materials	Training report production reports, marketing report annual activity report from SFML	Full participation of family members Initial start-up materials are properly utilized Participants fully understand farming skills
Activity 5.1	Vegetable Production Training			
Activity 5.2	The VOY and SFML will (1) plan, organize and conduct 1st vegetable farming training to 36 family members of the landowners, tree farmers, nursery volunteers and other members of the communities at Laswara village for 2 days. (2) plan, organize and conduct 2nd vegetable farming training to another 35 family members of the landowners, tree farmers, nursery volunteers and other members of the communities at Parua village for 2 days. Extension, Marketing & Support Services VOY and SFML will carry out (1) all extension services after the trainings, (2) purchase and distribute seeds and supplies to those who attended the training for initial vegetable production (3) assist and organize farmers to harvest, packaging and arrange transport to take the produce to SFML purchase depot for payment.	71 family members of tree farmers and nursery volunteers trained on vegetable farming Seeds and materials are purchased and distributed to training participants for initial start Each family members sell fresh vegetables and generate cash income marketing of fresh produce that generates income to Family members open bank accounts New household items acquired by family members & livelihoods sustained	Training report production reports, marketing report annual activity report from SFML	No pest Good weather condition No landslides on road Availability of logistics

	(4) coordinate and organize with PNG Micro Bank to open bank accounts for farmers so that they can save their income from the sales for future use.			
Output 6	Effective implementation of the project activities	Conduct internal M & E Engage external evaluation Engage audit of funds Quarterly meetings for project implementation with the project partners	Internal M & E report External evaluation report Audit report	Reliable local consultants
Activity 6.1 Activity 6.2	Internal Monitoring & Evaluation PM will (1) engage a local consultant to conduct internal monitoring & evaluation of project activities and administration (2) provide report to VOY Auditing PM will (1) engage a local puditing form to audit its accounts.	Internal M&E of project activities and administration identify issues and provide action plans External project evaluation identifies issues and provide strategic action plans Audit of the accounts and accompany report details the use of finds and provides financial.	Internal M & E report External evaluation report Audit report Annual reports to APFNet	All reports submitted on time Project activity reports are destroyed by virus
Activity 6.3	(1) engage a local auditing firm to audit its accounts (2) present the final audit report to VOY External Project Evaluation APFNet will organize a terminal evaluation. Relevant experts will be recruited to conduct the evaluation and expenses will be retained by APFNet.	of funds and provides financial advice. Detail reports are made available and submitted to APFNet		