# Encouraging customary landowners in the lowlands of Papua New Guinea's Central Province to reforest their grasslands with high value trees [PD 552/09-F]



Papua New Guinea Forest Authority Port Moresby, National Capital District





20 April 2022

#### Summary

Operation *Painim Graun na Planim Diwai* ("Operation Secure Land and Plant Trees") aims to fast-track the PNG government's afforestation and reforestation strategies, leading to 800,000 hectares of new trees planted by the year 2050. Each province is expected to plant over 1,100 hectares of trees each year.

The ITTO Project has established a model reforestation framework (MRF) that provides customary landowners in Central Province with ongoing access to well-managed information and training services, as well as quality planting materials for trees and food crops. Working in collaboration with 3 target communities and 4 training and extension partners, 3 local outreach centres have been setup at target community schools to provide school teachers, tree growers and field workers with onsite information. Two local distribution centres have also been established to supply landowners with quality seedlings for reforestation enterprises.

The MRF has encouraged the 2 target communities in Rigo District to allocate 110 hectares of grasslands for high-value plantations. To-date, 5 model reforestation enterprises (MREs) have been established and 10.6 hectares of teak planted at roadside locations. Each reforestation enterprise is promoting a model land group, a model business arrangement and a model production system to the wider community. Although the Project has focussed on teak, a series of pamphlets have also been produced to assist landowners to choose, grow make money from 6 high-value trees that grow well in the Central Province lowlands (including teak).

The MRF will continue to be managed by project partners using the tools and techniques that were tested during the project implementation phase. Whilst the face-to-face training, awareness and support services may be constrained at times by resource limitations, the growing network of community outreach centres and schools provides an ongoing source of technical information for landowners and the wider community. The User Guides and Promotional Videos will support the ongoing roll-out of the model reforestation framework across Central Prince and PNG.

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# Abbreviations and Acronyms

ACIAR Australian Centre for International Agricultural Research

ILG Incorporated Land Group

ILO International Labour Organisation

MRE Model Reforestation Enterprise

MRF Model Reforestation Framework

NARI National Agricultural Research Institute

NFS National Forest Service

PIP Pacific Island Projects

PNG Papua New Guinea

PNGFA Papua New Guinea Forest Authority

ITTO International Tropical Timber Organisation

SMEC Small & Medium Enterprise Corporation

#### 1. Project Background

Log exports from primary forests have made a significant contribution to the economy of Papua New Guinea (PNG). As accessible forests become increasingly depleted, however, the PNG Forest Authority (PNGFA) is focusing increasingly on reforestation as a means to maintain a permanent forest estate that supplies existing and new forest industries. Under its national reforestation programme, *Operation Painim Graun na Planim Diwai* ("Operation Secure Land and Plant Trees"), the PNGFA aims to plant 800 000 hectares of trees for commercial, community and conservation purposes by 2050.

The Pacific 2020 Review (AusAID 2006) concluded that, although there is potential to establish large plantations in the Pacific Islands, community and household arrangements are more likely to succeed due to land-tenure constraints. The review recommended growing high-quality furniture timber such as teak and mahogany and reducing the harvesting of natural forest stands, which would drive up demand and export prices. ITTO's Diagnostic Mission to PNG (Lakani et al., 2006) also found that

"large areas of degraded land and grassland areas are available for establishing commercial forest plantations. However, this option is subject to availability of investment funds, willingness of the landowners to participate, ownership rights of the landowners being respected, availability of planting materials and appropriate seed sources. The role of the government agencies, private sector together with the customary landowners is the prime catalyst to stimulate the growth and further the plantation development".

The ITTO Project aims to create a model reforestation framework (MRF) that addresses the key constraints to community reforestation through the provision of tailor-made awareness-raising, training and support services. The project, which involves partnerships with service providers from the public and private sectors, is focusing on teak but also encompasses other suitable species, such as mahogany and sandalwood. The MRF enables the establishment of model reforestation enterprises (MREs) that promote effective land groups, production systems and business arrangements in the wider community.

#### 2. Central Province

The project was implemented in Central Province, which lies on the country's southern coast and has an area of about 3.1 million hectares. The topography comprises coastal lowlands and hills that rise up to the rugged Owen Stanley Ranges. There are extensive areas of tropical savanna (163 000 hectares) and grasslands (535 000 hectares) along the lowland coastal areas and the northern ranges, representing 23% of the total land area. This vegetation is strongly influenced by a monsoonal climate, weathered soils and land-use practices (particularly fire).



**Figure 1:** Typical savannah grassland landscape in the Central province lowlands

Central Province is well-linked to the national capital, Port Moresby, and therefore offers good access to the marketing infrastructure needed to target both domestic and international markets. The province contains large areas of unoccupied land, a good road network, and four administrative districts. Many areas have access to power and a mobile phone network.

#### 3. Creating a Model Reforestation Framework (MRF)

The project selected 3 sites in the Kairuku-Hiri and Rigo districts with a population of around 3000 residents (400 households). Each community has adequate organisational structures and resources in place for the planned reforestation activities. Working closely with 5 landowner groups, the project partners developed a MRF that addresses the key constraints to community reforestation through tailor-made support services (Figure 2).

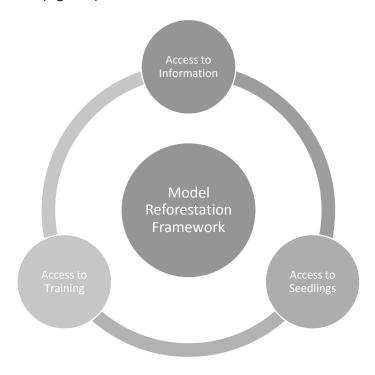


Figure 2: Key components of the model reforestation framework (MRF)

#### 3.1. Access to information

Pacific Island Projects (PIP) was selected to provide project partners and landowners with a one-stop source of information. A rapid appraisal exercise showed that schools in the three target sites had adequate physical resources (e.g. electricity, the internet and communication equipment suitable for accessing, sharing and using information on Google Drive) to act as community outreach centres under the project. Such centres were duly established, with ongoing support from PIP.

The following 3 information kits are now available at each community outreach centre<sup>1</sup>:

a) The Landowner Awareness Kit assists the PNGFA to identify landowners and landowner groups ready to plant trees on their land under *Operation Painim Graun na Planim Diwai*. Landowner awareness activities follow a step-by-step approach, with two awareness-raising steps (A and C) and two datacollection steps (B and D). A User Guide and <a href="Promotional Video">Promotional Video</a> were prepared to support the roll-out of LAK resources across PNG.



**Figure 3:** Landowner awareness activities follow a step-by-step approach

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<sup>&</sup>lt;sup>1</sup> The information kits are also available at <a href="http://pip.com.pg">http://pip.com.pg</a> (Resources menu)

b) The Forest Learners Kit promotes the benefits of trees and forests to the next generation of landowners through the Humanities-Social Science and Science-Mathematics pathways of PNG's Standards Based Curriculum. Fifty-eight new sets of teaching aids were selected to suit the Central Province context (e.g. grassland biomes), as well as fill information gaps (e.g. on climate-change mitigation). The Forest Learners Kit now contains more than 100 sets of multi-media teaching aids for elementary,



**Figure 4:** Teacher giving presentation from a set of teaching aids titled *Carbon Footprints & Offsetting* 

primary and high school teachers to choose from, including games, lesson plans, presentations, puzzles, quizzes, videos, worksheets and more. A User Guide and <u>Promotional Video</u> were prepared to support the roll-out of Forest Learners Kit resources across PNG.

c) The Tree Growers Tool Kit helps landowners and field workers choose, grow and make money from trees. Seven pamphlets (1 "tree selector" and 6 "tree factsheets") were prepared to promote 6 high-value trees that grow well in the Central Province lowlands: damson terminalia (Terminalia sericocarpa); mahogany (Swietenia macrophylla); mango (Mangifera indica); rosewood (Pterocarpus indicus); sandalwood (Santalum macgregorii); and teak (Tectona grandis). These pamphlets



Figure 5: Landowner reading the Tree Selection pamphlet for Central province

provide information on tree products and ecosystem services, site selection, nursery establishment, planting-out and maintenance, and market opportunities and requirements. The Tree Growers Tool Kit now contains over 250 multimedia resources.

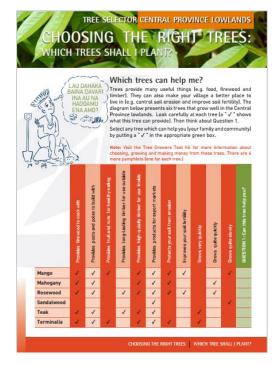




Figure 6: Front page of the tree selector and mahogany factsheet for the Central province lowlands

Open days were held at each target community to showcase the selected resource packs at the community schools, and to register landowners interested in planting trees under *Operation Painim Graun na Planim Diwai* using smart-phones with KoboCollect software. The survey found that a high proportion of active farmers are women. Although only 24% of respondents were currently growing trees (77% were growing cash crops), everyone interviewed indicated they would like to grow (more) trees in the future. Information needs were broad, ranging from reforestation awareness through to technical training. Most people interviewed preferred print to electronic media. All community members who answered the question, "Would you like to use the community outreach centre again?" responded positively.

#### 3.2. Access to training

The National Agricultural Research Institute (NARI), the National Forest Service (NFS) and the Small and Medium Enterprise Corporation (SMEC) continue to provide specialized training services for target communities. The project has assisted these agencies to improve the delivery of their training programmes through the provision of relevant, user-friendly resources for landowners and field workers (such as the information kits described above). The following training services are now available:

a) Agroforestry training services are provided by NARI and NFS field-workers to assist target communities select and manage the most appropriate production systems for their local environment (e.g. regarding soils, slope and accessibility) and local needs (e.g. for woodfuel, timber and soil erosion control). Training topics include land-use planning, site—species election, site establishment, fire control, site operations through to harvesting, and nursery management. Training resources are selected



**Figure 6:** Food crops growing in ploughed soil in beds (left) and between Teak trees

from the Tree Growers Tool Kit (e.g. the 7 new pamphlets for the Central Province lowlands).

b) Business training services are provided by SMEC field workers under their Start Your Business programme. This programme is licensed by the International Labour Organisation and comprises business awareness and planning activities. Various learning approaches are used, including simulation games, case studies and group discussions. Business awareness topics are tailored to individuals and groups and their business ideas. Business planning topics include legality,



**Figure 8:** Participants displaying their cash flow plans during the SYB training at Girabu village

costing, pricing, marketing, cash-flow and start-up capital. Training resources are selected from the Tree Growers Tool Kit (e.g. the checklist "Are you ready to start a tree business?" and the "Cost & returns calculator").

#### 3.3. Access to seedlings

NARI and NFS continue to provide high-quality seeds and seedlings, which are further distributed through local satellite nurseries. The project has assisted in the provision of nursery equipment and materials. The following distribution centres are operational:

- a) Provincial nursery at the Kuriva Forestry Station (NFS) and Laloki Agricultural Station (NARI) provide high-quality seeds and seedlings to model sites and local nurseries. Teak is the principal species at the Kuriva Forestry Station and the nearby Mount Lawes Clonal Orchard. Scientists at the Forest Research Institute have established a replicate clonal seed orchard for teak comprising 208 clonal ramets on secure state land at the Kuriva Forestry Station. This work was undertaken through a project funded by the Australian Centre for International Agricultural Research (ACIAR).
- b) Local nurseries are managed by the 2 target communities in Rigo district to supply highquality seedlings of high-value trees and food crops that grow well in the Central Province lowlands. These local distribution centres provide a cost-effective means for delivering planting stock and materials to reforestation enterprises, minimizing transport costs and seedling mortality while encouraging farmers to plant trees. Issues such as water supply, fire control, security and overall management were assessed carefully each location before at establishment.



**Figure 9:** Local distribution centres such as this one in Rigo district provide a cost-effective means of delivering planting stock and materials to reforestation enterprises.

## 4. Setting-up Model Reforestation Enterprises (MREs)

The MRF has encouraged the two target communities in Rigo district to allocate 110 hectares of grasslands for high-value plantations along the Magi highway. The third target community in Kairuku-Hiri district is also preparing to allocate a suitable demonstration area. Four model reforestation enterprises have been established to date, and 10.6 hectares of teak have been planted at roadside locations. Interplanting with agricultural crops has provided these tree-growers with early financial returns at local and provincial markets. Teak thinnings and prunings have also supplied high-quality building materials for community use. Each community forestry operation promotes the following 3 key components of a MRE to the wider community:

- A land group that ensures transparent and effective governance.
- A production system for delivering planned products and services.
- A business arrangement for delivering planned financial returns.

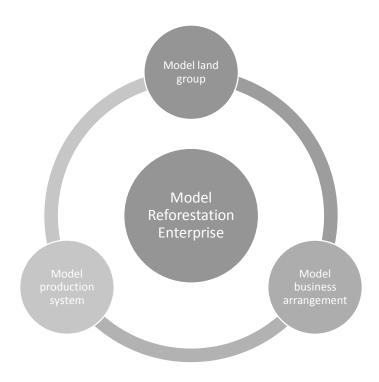
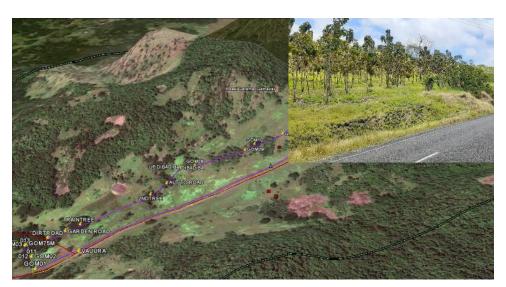


Figure 10: Key components of a model reforestation enterprise

#### 4.1. Model land groups

Incorporated land groups (ILGs) are a recognized mechanism for enabling customary landowners to take part in the formal economy with support from the legal system. An ILG should provide its members with a solid platform for making decisions on the use of their land and its resources, as well as for the sharing of benefits derived from these assets. The ILG application process comprises a number of steps that assist landowners to organize themselves into the most appropriate decision-making body for a given area of land (usually a clan group).

NFS field workers have assisted the target communities in Rigo district with ILG awareness, ILG training, priority setting, land-use planning and participatory clan-land boundary mapping, leading to the formation of three ILGs (another ILG application is underway). Each ILG is governed by its own constitution, management committee and dispute settlement authority and is responsible for managing reforestation activities on its land (on behalf of the clan members).



**Figure 11:** 30 hectares of grassland were made available for reforestation (within purple line) along the Magi highway (red line) by the 3 Incorporated Land Groups from Gomore.

#### 4.2. Model business arrangements

SMEC field workers have assisted the 4 clan groups in Rigo district to identify the most appropriate business arrangements for their situation. This has led to one land group forming the Girabu Farmers' Cooperative with PGK 10 000 (US\$ 3 000) deposited into their bank as seed capital account by SMEC.

Each land group is now engaged in the preparation of model business plans using selected resources from the Tree Growers Tool Kit. This includes the production of a land-use plan and estimates of costs and returns for each reforestation enterprise.



**Figure 12:** Mr. Ralda (Managing Director, SMEC) presenting the Cooperative Passbook account to the Chairman of Girabu Farmers' Cooperative witnessed by Mr. Kaip (PNG Forest Authority).

#### 4.3. Model production systems

NARI and NFS field workers have assisted the 4 clan groups in Rigo district to select the most appropriate production systems for their needs and the local environment (e.g. regarding soils, slope and accessibility). Common community constraints relate to high demand for wood products (i.e. woodfuel and timber) for home and community use, soil erosion, and a lack of planting materials and information.

Two production systems were trialled in Rigo district. In one, the sites were ploughed and vegetables were intercropped with teak trees. In the other, vegetables were planted and harvested before the teak trees were planted. Teak seedlings (stumps) were found to grow best in soil ploughed by local tractors during the wet season. Agricultural crops (e.g. pineapple, corn, watermelon, cucumber and Chinese cabbage) also grew best in soils ploughed by local tractors during the wet season. Pineapple, corn and watermelon were found to grow well when interplanted with teak trees, which reduced the time spent on site maintenance (e.g. weeding) and provided quick returns for tree-growers.



**Figure 13:** Two year old teak trees growing well on ploughed land at Girabu in Rigo District. The Konido family has allocated over 70 hectares of their land for tree planting, with 5 hectares of teak planted to-date.

#### 5. Conclusion

The ITTO Project has managed to create a MRF that addresses the key constraints to community reforestation; providing customary landowners in Central Province with ongoing access to well-managed information and training services, as well as high-quality planting materials for trees and food crops.

The MRF has encouraged 2 target communities in Rigo District to allocate 110 hectares of grasslands for high-value plantations. To-date, 5 model reforestation enterprises have been established and 10.6 hectares of teak planted at roadside locations. Each reforestation enterprise is promoting a model land group, a model business arrangement and a model production system to the wider community. Although the Project has focussed on teak and food crops, a series of pamphlets have also been produced to assist landowners to choose, grow make money from 6 high-value trees that grow well in the Central Province lowlands (including teak).

The model reforestation framework will continue to be managed by project partners using the tools and techniques that were tested during the project implementation phase. Whilst the face-to-face training, awareness and support services may be constrained at times by resource limitations, the growing network of community outreach centres and schools provides an ongoing source of technical information for landowners and the wider community.

# References

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# Annex 1: Landowner Registration Form



# Operation Painim Graun na Planim Diwai: Registration Form for Tree Growers v72



The purpose of this survey is to learn more about landowners who are growing trees now  $\underline{or}$  are interested to grow trees in the future. The information collected will help us to provide better services for tree growers in Papua New Guinea. All respondents who complete this form will be registered with:

• PNG Forest Authority through "Operation Painim Graun na Planim Diwai"

	INTERVIEV	W D	ETAILS				
	First provide some background inform	atio	n (before you start the interview)				
1.	Name of interviewer	2.	Gender of interviewer (select one)				
	Full name:		Female □; Male □				
3.	<u>Date</u> of interview	4.	Time of interview				
	Day-Month-Year:		Start: Stop:				
5.	Name of the organisation you work for	6.	Your position within the organisation				
	Name:		Position:				
7.	Ask the respondent (person being interviewed) to cointerview:	onse	nt to the following terms and conditions of the				
	The purpose of this survey is to learn more about landowners who are growing trees now <u>or</u> are interested to grow trees in the future. The information collected will help us to provide better services for tree growers in Papua New Guinea. All respondents who complete this form will be registered with:						
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12.	How are you <u>related</u> to the members of your household? (select one or	more)			
	Grandmother / Grandfather $\square$ ; Aunt / Uncle $\square$ ; Cousin $\square$ ; Son / Daught	ter □; Husband / Wife □			
	Mother / Father (living with husband / wife) ☐; Mother / Father (not living with husband / wife) ☐; Single adult (NO children) ☐				
	Other (specify)				
13.	Are you employed? (select one)				
	Yes (part-time) □; Yes (full-time) □; Now go to Question a	No Now go to Question 14			
	a. Where do you work? (select one)				
	In village ☐; Near village ☐; LLG centre ☐; District centre ☐; Pro	vincial centre			
	Other (specify)				
14.	What position(s) do you hold within your community? (select one or me	ore)			
	Church leader []; Clan leader []; Farmer []; Group leader []; Ward leader				
	Other (specify)				
	Are you a member of an incorporated land group (ILG)? (select one)	_			
	77 D 77 . 0 .:				
	Yes Now go to Questions a-c	No Now go to Question 16			
	a. What is the registered name of the ILG?	_ 5			
	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?				
	a. What is the registered name of the ILG?				
	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?				
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16.	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?  c. When was the ILG registered?  Are you a member of a grower co-operative? (select one)	No ☐ Now go to Question 17			
16.	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?  c. When was the ILG registered?  Are you a member of a grower co-operative? (select one)  Yes \[ \begin{subarray}{cccccccccccccccccccccccccccccccccccc	No ☐ Now go to Question 17			
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16.	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?  c. When was the ILG registered?  Are you a member of a grower co-operative? (select one)  Yes \[ Now go to Question a \]  a. What is the name of the co-operative?  Do you grow cash crops now? (select one)  Yes \[ Now go to Question a \]	No ☐ Now go to Question 17			
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16.	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?  c. When was the ILG registered?  Are you a member of a grower co-operative? (select one)  Yes \[ Now go to \text{Question a} \]  a. What is the name of the co-operative?  Do you grow \( \frac{\text{cash crops now}}{\text{ow}} \)? (select one)  Yes \[ Now go to \text{Question a} \]  a. \[ Which \( \text{cash crop(s) do you grow now} \)? (select one or more)  Betelnut \[ \]; Cocoa \[ \]; Coconuts \[ \]; Fruit/vegetables \[ \];	No ☐ Now go to Question 17  No ☐ Now go to Question 19  (Oil palm ☐; Tobacco ☐; Vanilla ☐			
17.	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?  c. When was the ILG registered?  Are you a member of a grower co-operative? (select one)  Yes  Now go to Question a  a. What is the name of the co-operative?  Do you grow cash crops now? (select one)  Yes  Now go to Question a  a. Which cash crop(s) do you grow now? (select one or more)  Betelnut ; Cocoa ; Coconuts ; Coffee ; Fruit/vegetables ;  Other (specify)	No ☐ Now go to Question 17  No ☐ Now go to Question 19  (Oil palm ☐; Tobacco ☐; Vanilla ☐			
17.	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?  c. When was the ILG registered?  Are you a member of a grower co-operative? (select one)  Yes \[ \] Now go to Question a  a. What is the name of the co-operative?  Do you grow cash crops now? (select one)  Yes \[ \] Now go to Question a  a. Which cash crop(s) do you grow now? (select one or more)  Betelnut \[ \]; Cocoa \[ \]; Coconuts \[ \]; Coffee \[ \]; Fruit/vegetables \[ \];  Other (specify) \[ \]	No			
17.	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?  c. When was the ILG registered?  Are you a member of a grower co-operative? (select one)  Yes  Now go to Question a  a. What is the name of the co-operative?  Do you grow cash crops now? (select one)  Yes  Now go to Question a  a. Which cash crop(s) do you grow now? (select one or more)  Betelnut ; Cocoa ; Coconuts ; Coffee ; Fruit/vegetables ;  Other (specify)   Why do you grow cash crops? (select one or more)  Cash for daily use (e.g. food) ; Short-term savings (e.g. school fees) ;	No  Now go to Question 17  No  Now go to Question 19  Oil palm ; Tobacco ; Vanilla   Long-term savings (e.g. house)			
17.	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?  c. When was the ILG registered?  Are you a member of a grower co-operative? (select one)  Yes \[ \] Now go to Question a  a. What is the name of the co-operative?  Do you grow cash crops now? (select one)  Yes \[ \] Now go to Question a  a. Which cash crop(s) do you grow now? (select one or more)  Betelnut \[ \]; Cocoa \[ \]; Coconuts \[ \]; Coffee \[ \]; Fruit/vegetables \[ \];  Other (specify) \[ \]	No Now go to Question 17  No Now go to Question 19  Coil palm; Tobacco; Vanilla  Long-term savings (e.g. house)			
16.	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?  c. When was the ILG registered?  Are you a member of a grower co-operative? (select one)  Yes  Now go to Question a  a. What is the name of the co-operative?  Do you grow cash crops now? (select one)  Yes  Now go to Question a  a. Which cash crop(s) do you grow now? (select one or more)  Betelnut ; Cocoa ; Coconuts ; Coffee ; Fruit/vegetables ;  Other (specify)   Why do you grow cash crops? (select one or more)  Cash for daily use (e.g. food) ; Short-term savings (e.g. school fees) ;	No  Now go to Question 17  No  Now go to Question 19  Oil palm ; Tobacco ; Vanilla   Long-term savings (e.g. house)			
17.	a. What is the registered name of the ILG?  b. What is the registration number of the ILG?  c. When was the ILG registered?  Are you a member of a grower co-operative? (select one)  Yes  Now go to Question a  a. What is the name of the co-operative?  Do you grow cash crops now? (select one)  Yes  Now go to Question a  a. Which cash crop(s) do you grow now? (select one or more)  Betelnut ; Cocoa ; Coconuts ; Coffee ; Fruit/vegetables ;  Other (specify)   Why do you grow cash crops? (select one or more)  Cash for daily use (e.g. food) ; Short-term savings (e.g. school fees) ;	No  Now go to Question 17  No  Now go to Question 19  Oil palm ; Tobacco ; Vanilla   Long-term savings (e.g. house)			

	Do you grow trees now? (select one)					
	Yes ☐ Now go to Question a No ☐ Now go to Question 22					
	a. Which trees do you grow now? (select one or more)					
	Balsa : Galip : Kalopulim : Kamarere : Kwila : Malas : Rosewood : Taun : Teak : Acacia : Castanopsis : Casuarina : Cryptocarya : Eucalyptus grandis : Eucalyptus robusta : Hoop pine : Klinki pine : Nothofagus : Pinus spp. :					
	Other (specify)					
20.	. Why do you grow trees? (ask respondent to think of 3 or more reasons)					
	Products for sale (cash) : Products for sale (savings) : Products for home and community use :					
	Firewood □; Fruit and nuts □; Poles □; Seeds and/or seedlings □; Timber □					
	Conserve environment $\square$ ; Control soil erosion $\square$ ; Improve soil fertility $\square$ ; Mark-out land boundaries $\square$ ; Protection from sun, wind, rain $\square$ ; Store carbon $\square$					
	Other (specify)					
21	What are your top-3 reasons for growing trees? (rank 1st, 2nd and 3rd with reference to Question 20)					
	1st choice:  2nd choice:  3rd choice:					
22.	Are you interested to plant some (more) trees in the future? (select one)					
	Yes If the answer to Question 19 was "Yes", now go to <u>Question 23</u> If the answer to Question 19 was "No", now go to <u>Question 39</u>					
	No ☐ If the answer to Question 19 was "Yes", now go to <u>Question 23</u> If the answer to Question 19 was "No", now go to <u>Question 45</u>					
	B. TELL US ABOUT YOUR TREES					
23	B. TELL US ABOUT YOUR TREES  Now start the 2 <sup>nd</sup> part of the survey (with reference to Question 19)					
23.	B. TELL US ABOUT YOUR TREES  Now start the 2 <sup>nd</sup> part of the survey (with reference to Question 19)  How many trees do you grow now? (select one)					
23.	B. TELL US ABOUT YOUR TREES  Now start the 2 <sup>nd</sup> part of the survey (with reference to Question 19)					
	B. TELL US ABOUT YOUR TREES  Now start the 2 <sup>nd</sup> part of the survey (with reference to Question 19)  How many trees do you grow now? (select one)					
	B. TELL US ABOUT YOUR TREES  Now start the 2 <sup>nd</sup> part of the survey (with reference to Question 19)  How many trees do you grow now? (select one)  0 ; 1-10 ; 11-100 ; 101-250 ; 251-1000 ; 1,001+					
24.	B. TELL US ABOUT YOUR TREES  Now start the 2 <sup>nd</sup> part of the survey (with reference to Question 19)  How many trees do you grow now? (select one)  0 ; 1-10 ; 11-100 ; 101-250 ; 251-1000 ; 1,001+  What area has been planted? (estimate area with reference to Question 23)					
24.	B. TELL US ABOUT YOUR TREES  Now start the 2 <sup>nd</sup> part of the survey (with reference to Question 19)  How many trees do you grow now? (select one)  0 : 1-10 : 11-100 : 101-250 : 251-1000 : 1,001+ :  What area has been planted? (estimate area with reference to Question 23)  Hectares:					
24.	B. TELL US ABOUT YOUR TREES  Now start the 2 <sup>nd</sup> part of the survey (with reference to Question 19)  How many trees do you grow now? (select one)  0 ; 1-10 ; 11-100 ; 101-250 ; 251-1000 ; 1,001+   What area has been planted? (estimate area with reference to Question 23)  Hectares:  Who owns the trees you grow now? (select one or more)					

	Where are your trees planted? (select one or more)  In rainforest (highland) : In rainforest (lowland) : In savannah forest : In swamp forest :  In degraded forest (gardening) : In degraded forest (logged) : In degraded forest (other) :  On cleared land : On scrub land : On grassland : On wetland : In mangrove :  Around house : In village : With cash crops : With food crops :  Other (specify) :
27.	How are your trees laid out? (select one or more)  Along boundary : Randomly spaced : In empty spaces : In food gardens : In block/s (trees and crops) : In block/s (trees only) : In plantation/s (trees and crops) : In plantation (trees only) : Other (specify) :
28.	When did you plant your trees? (select one or more)  This year □; Last year □; 1-5 years ago □; 6-10 years ago □; 11-25 years ago □; 26+ years ago
29.	How did you plant your trees? (select one or more)  From cuttings □; From seeds □; From seedlings □; From wildings □  Other (specify) □
30.	Where did you collect the seeds / seedlings / cuttings / wildings from? (select one or more)  Own land (any tree) : Own land (selected tree) : Own land (selected fruit or nut) :  Other land (any tree) : Other land (selected tree) : Other land (selected fruit or nut) :  Local nursery : District nursery : Provincial nursery (PNGFA) : Provincial nursery (other) :  Local market : District market : Provincial market :  Other (specify) :
31.	What are the main difficulties that you face as a tree grower? (ask respondent to think of 3 or more problems  Lack of finance \( \); Lack of land \( \); Lack of planting materials \( \); Poor quality planting materials \( \)  Lack of information \( \); Poor quality information \( \); Lack of training \( \); Poor quality training \( \)  Lack of markets \( \); Poor relationship with buyers \( \); Poor access to markets and services \( \)  Lack of time \( \); Poor family support \( \); Poor community support \( \)  Drought \( \); Fire \( \); Flood \( \); Pests / disease \( \)  Other (specify) \( \)
32.	What are the top-3 difficulties (rank 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> with reference to Question 31)  1 <sup>st</sup> choice:  2 <sup>nd</sup> choice:  3 <sup>rd</sup> choice:

33.	How many more trees would you like to grow in the future? (select one)
	0 📑 1-10 📑 11-100 📑 101-250 📑 251-1000 🗀 : 🗀 1,001+
34.	What area would you like to plant in the future? (estimate area with reference to Question 33)
	Hectares:
35.	Who will own the trees you grow in the <u>future</u> ? (select one or more)
	Myself $\square$ ; Me with my family $\square$ ; Me with my extended family $\square$ ; Me with my clan members $\square$
	Other (specify)
	C. TELL US ABOUT THE HELP YOU HAVE RECEIVED
	Now start the 3 <sup>rd</sup> part of the survey
36.	Has anybody <u>helped</u> you to grow your trees? (select one)  Yes ☐ Now go to Question a No ☐ Now go to Question 39
	a. Who has helped you to grow trees? (select one or more)
	Govt (PNGFA) : Govt (Provincial) : Govt (District) : Government (LLG)
	Non-govt []; Church []; Private sector [] Neighbour []; Friend []; Family member []
	Other (specify)
_	
<b>3</b> 7.	What type of help have you received in the past? (select one or more)
	Finance (grant) ; Finance (loan) ; Finance (advance payment for timber)
	Field visits \( \); Training courses \( \); Printed information \( \); Electronic information \( \)  Planting materials (local nursery) \( \); Planting materials (district nursery) \( \);
	Planting materials (PNGFA provincial nursery) []; Planting materials (other provincial nursery) []
	Other (specify)
20	Annual dill anniale halo anno (alastana)
38.	Are you still receiving help <u>now</u> ? (select one)  Yes ☐ Now go to Question a No ☐ Now go to Question 39
	a. What type of help are you receiving now? (select one or more)
	Finance (grant) : Finance (loan) : Finance (advance payment for timber)
	Field visits : Training courses : Printed information : Electronic information :
	Planting materials (local nursery) []; Planting materials (district nursery) [];
	Planting materials (PNGFA provincial nursery) $\square$ ; Planting materials (other provincial nursery) $\square$
	Other (specify)
	Outer (specify)

# D. HOW CAN WE COMMUNICATE WITH YOU?

-	and	uld you like to <u>register</u> with "Operation Painim G the "Tree Growers Tool Kit"? (select one)	***
	Yes	Now go to Question a	No Now go to Question 45
	a.	What type of information can we send you? (selec	et one or more)
		Why plant trees? ☐; Which trees to plant? ☐; Who	ere to plant trees?
		How to grow trees? ☐; How to grow trees with crop	
		Protecting your environment with trees : Slowing	
		Other (specify)	
<b>40.</b>	Car	n we communicate with you using electronic equip	ment (like radio or mobile phone)? (select one)
	Yes	Now go to Question a	No Now go to Question 41
	a.	What type(s) of electronic equipment can we use?	(select one or more)
		Radio $\square$ ; Computer $\square$ ; Fax $\square$ ; Mobile-phone $\square$ ;	Smart-phone □; Tablet □
		CD $\square$ ; Flash drive $\square$ ; Email $\square$ ; Text message $\square$ ;	; Video □; Website □
		Other (specify)	
41.	Car	n we communicate with you using <u>printed material</u>	s? (select one)
		Now go to Question a	No ☐ Now go to Question 43
	a.	What type(s) of printed materials do you like to r	ead? (select one or more)
		Pamphlets □; Newsletters □; Reports □	
		Other (specify)	
	b.	Where can you collect printed materials from? (see	elect one or more)
		Post office box $\square$ ; Govt (PNGFA area office) $\square$ ; C	Govt (PNGFA provincial office)
		Govt (Provincial) $\square$ ; Govt (District) $\square$ ; Govt (LLC	6) : Non-govt : Church : Private sector :
		Other (specify)	
42.	Wo	uld you <u>prefer</u> us to use electronic equipment <u>or</u> p	rinted materials? (select one)
		ctronic media : Print media :	
42	***		
43.		at <u>language</u> can we use? (select one or more) glish []; Motu []; Tok Pisin []; Tok Ples []	
	EHŞ	gust, Mott, Tok Fishi, Tok Fies	
44.		at are your contact details? (Complete with reference	
			Landline number:
			Email address:
	Pos	t office box:	

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45	How did you find out about "Operation Painim Graun na Planim Diwai"? (select one or more)
45.	Radio : Text message : Pamphlet : Video : Meeting invitation : Word-of-mouth
	Other (specify)
느	
46.	Who gave you this information? (select one or more)
	Govt (PNGFA) : Govt (Provincial) : Govt (District) : Government (LLG) :
	Non-govt ☐; Church ☐; Private sector ☐ Neighbour ☐; Friend ☐; Family member ☐
	Other (specify)
47	Thank you for registering with "On anotice Bairing Course as Blaning Birming and the "Tree Courses To
47.	Thank you for registering with "Operation Painim Graun na Planim Diwai" and the "Tree Growers Too Kit"!
	Advise the respondent that he/she will be sent a confirmation email or text message



# Rapid Appraisal Form: Outreach Partners

Pacific Island Projects (PIP) is a not-for-profit enterprise that supplies the sustainable forestry sector with a holistic, one-stop source of information. Our multi-media resource packs focus on the information needs of landowners, school children, tree growers, field workers and wood processors in Papua New Guinea. We supply audios, videos, pamphlets, posters, research papers, reports and much more. There are currently over 800 files in 300 folders. Everything is freely available online.

We aim to circulate our user-friendly resource packs and news updates to sustainable forestry sector participants everywhere. We collaborate with research and development partners worldwide, and operate though a growing network of resource centres and schools at national, provincial, district and local levels.

The purpose of this questionnaire is to assess how we can help your organization to realize its development objectives by becoming an outreach partner. The information collected will be securely stored within our outreach services database, and will not be shared without permission from your organisation's contact person.

	INTERVIEV First provide some background inform	111000	
1.	Name of <u>interviewer</u>	2.	Date of interview
	Full name:		Day-Month-Year:
3.	Interview <u>location</u>	4.	Photo of location & respondent (select one)
	Full name:		Yes □; No □
5.	Ask the respondent (person being interviewed) if th interview:	ey C	CONSENT to the terms and conditions of the
	The purpose of this questionnaire is to assess how we cobjectives by becoming an outreach partner. The information outreach services database, and will not be shared with	mati	on collected will be securely stored within our
	OK. Please continue		
6.	Note down any <u>additional information</u> collected dur	ing	the interview:
Out	reach Services   Rapid Appraisal Form for outreach partners vi	8 (ha	1 of 5

	A. TELL US ABOUT  Now start the 1		
7.	What is <u>your name</u> ?	8.	What is <u>your position</u> within the organisation?
	Name:		Position:
).	What is your organisation's <u>name</u> ?	10.	When was your organisation <u>established</u> ?
	Name:		Year:
1.	What type of organisation is it? (select one)		
	Registered company □; Registered association □; Ch	urch	organisation □;
	National government ☐; Provincial government ☐; D	istric	t government [ ]; Local government [
	Government school : Government agency school	]; Inc	lependent school [];
	Other (specify)		
_	Whose is your aganization legated?		
	Where is your organisation <u>located</u> ?  Village/Town:		Ward:
	LLG:		District:
_	Province:		Region:
13.	What are your organisation's contact details?		
	Name:		Position:
	Email:		Phone:
	B. TELL US ABOUT YOUR_ORGANISA  Now start the 2		
14.	What are your organisation's community developm	ent 1	oriorities? (select one or more)
4.	What are your organisation's community developm Environment [; Forestry [; Agriculture []; Small b	_	
4.		ousin	ess development []; Financial management [];
4.	Environment []; Forestry []; Agriculture []; Small b	ousin AIDS	ess development []; Financial management [];
4.	Environment : Forestry : Agriculture : Small to Health : Nutrition : Water & sanitation : HIV/	ousine	ess development []; Financial management []; [S []; Social work []

15.	What are your organisation's <u>Top-3</u> community development <u>priorities</u> ? (select from Question 14)					
	1 <sup>st</sup> priority (specify)					
	2 <sup>nd</sup> priority (specify)					
	3 <sup>rd</sup> priority (specify)					
16.	What are your organisation's community development strategies? (select one or more)					
	$Raise \ awareness \ \square; \ Lobby \ government \ \square; \ Disseminate \ information \ \square; \ Provide \ training/education \ services \ \square$					
	Provide training/education resources $\square$ ; Provide planting materials $\square$ ; Provide tools and supplies $\square$					
	Provide online services []; Provide face-to-face services (office) []; Provide face-to-face services (field) []; Provide face-to-face services (classroom) []					
	Collaborate with local organisations : Collaborate with local field workers					
	Other (specify)					
17.	What are your organisation's Top-3 community development strategies? (select from Question 16)					
	1st priority (specify)					
	2 <sup>nd</sup> priority (specify)					
	3 <sup>rd</sup> priority (specify)					
18	Which of your organisation's community development activities need improvement? (select one or more)					
	Quality of goods (e.g. training resources) []; Quality of services (e.g. training sessions) [];					
	Field worker productivity/performance : Field worker coordination : Community satisfaction :					
	Monitoring & evaluation □; Progress reporting □; Donor satisfaction □					
	Other (specify)					
	C. TELL US ABOUT YOUR ORGANISATION'S RESOURCES  Now start the <u>last part</u> of the survey					
19.	Do any people benefit from your community development activities?					
	Yes Now go to Question a No Now go to Question 20					
	a. How many communities benefit (select one)					
	1 community \( \subseteq \); 2-5 communities \( \subseteq \); 6-10 communities \( \subseteq \); 11-25 communities \( \subseteq \); 26+ communities \( \subseteq \) <b>b.</b> How many families benefit (select one)					
	1-10 families : 11-50 families : 51-250 families : 251-1,000 families : 1,000+ families					
	each Services   Rapid Appraisal Form for outreach partners v8 (hard)					

	Yes Now go to Question a No Now go to Question 21				
	a. How many <u>field staff</u> does your organisation employ? (select one)				
	None				
	b. How many office staff does your organisation employ? (select one)				
	None ☐  1 office worker ☐; 2-5 office workers ☐; 6-10 office workers ☐; 11+ office workers ☐				
21.	Does your organisation collaborate with any <u>local partners</u> ?				
	Yes Now go to Question a No Now go to Question 22				
	a. How many <u>local organisations</u> does your organisation collaborate with? (select one)				
	None    1 local organisation   ; 2-5 local organisations   ; 6-10 local organisations   ; 11+ local organisations				
	b. How many <u>local field workers</u> does your organisation collaborate with? (select one)				
	None ☐  1 local field worker ☐; 2-5 local field workers ☐; 6-10 local field workers ☐; 11-25 local f-workers ☐  26+ local field workers ☐				
22.	Does your organisation have reliable access to <u>electricity</u> ? (select one)				
	PNG Power □; Generator power □; Other □; No reliable power service □				
23.	Does your organisation have reliable access to a phone or mobile network? (select one)				
	Telikom landline ☐; Digicel ☐; B-mobile/Vodafone ☐; Other ☐; No reliable phone or mobile network				
24.	Does your organisation have reliable access to an <u>internet network</u> suitable for downloading files? (select one)				
	Telikom ADSL □; Digicel □; B-mobile/Vodafone □; Other □; No reliable internet network				
25.	Does your organisation have any communication equipment? (select one or more)				
	Desktop computer $\square$ ; Laptop computer $\square$ ; Printer (ink jet) $\square$ ; Printer (laser jet) $\square$				
	Tablet $\square$ ; Smartphone (Android) $\square$ ; Smartphone (iOS) $\square$ ; Smartphone (other) $\square$ ;				
	Multi-media projector □; Television with USB port □				
	Other (specify)				
	Outer (specify)				

26.	Who finances your community development activities? (select one or more)
	User pays : User contributes :  Donor partners : Government partners : Non-government partners : Church partners : Churc
	Private sector partners
	Other (specify)
27.	Would you like PIP to <u>assist</u> your organisation secure financial support for its outreach services? (select one)
	Yes □; Not sure □; No □
28.	Thank you for taking part in the rapid appraisal!  Advise the respondent that he/she will be informed in good time about the results of the survey
	reach Services   Rapid Appraisal Form for outreach partners v8 (hard)  5 of 5

# Annex 3: Community Outreach Centre Evaluation Form



## Community Outreach Centre: Evaluation Form

The ITTO Reforestation Project aims to encourage customary landowners in Central Province to grow high value trees on their grasslands. The project team has been invited to establish a **Community Outreach Centre at Barakau Primary School** that will focus on the information needs of landowners, school children and tree growers in Barakau Village. This work is being undertaken with support from the PNG Forest Authority, Pacific Island Projects and SME Corporation.

The purpose of this questionnaire is find out how we can improve our one-stop information service for the Barakau village community. Please complete questions 1-3 with a pen.

1.	COMMUNITY RESOURCES									
	OUR QUESTION (Circle your score for questions a-f and then add an	OUR QUESTION (Circle your score for questions a-f and then add any comments to question g)			YOUR SCORE (1=low, 5-high)					
		Reading scripture	1	2	3	4	5			
a.	Do you like the four BIBLE EXPLORERS PACK	2. Bible themes	1	2	3	4	5			
	folders?	3. Bible stories	1	2	3	4	5			
		4. Bible words	1	2	3	4	5			
		1. Elementary	1	2	3	4	5			
b.	Do you like the three SCHOOL TEACHERS PACK folders?	2. Lower primary	1	2	3	4	5			
		3. Upper primary	1	2	3	4	5			
		4. Choosing trees	1	2	3	4	5			
c.	Do you like the three TREE GROWERS TOOL KIT folders?	5. Growing trees	1	2	3	4	5			
		6. Making money from trees	1	2	3	4	5			
		1. Video	1	2	3	4	5			
		2. Handouts	1	2	3	4	5			
d.	Do you like these five different TYPES OF RESOURCES?	3. Posters	1	2	3	4	5			
		4. Presentations	1	2	3	4	5			
		5. Technical notes	1	2	3	4	5			
e.	Would you like to visit the BARAKAU OUTREACH CE	NTRE again?	7	Yes		N	5			
f.	Do you have a COMPUTER OF TOUCH SCREEN PHONE	?	7	Yes		N	)			
	Would you like to ACCESS our library resource	s on your computer or phone?	7	Yes		N	)			
g.	Do you have any SUGGESTIONS to help us improve	our one-stop information service	?							

ITTO Project: PD 552/09 Rev. 1 (F): Encouraging Customary Landowners in the Lowlands of Papua New Guinea's Central Province to reforest their Grasslands with High Value Trees.

	OUR QUESTIO (Circle your score for questions a-c and then a		_	OU =lo				
		1. Why plant trees?	1	2	3	4	5	
a.	Do you like these three AWARENESS VIDEOS?	2. Uses for young teak trees	1	2	3	4	5	
		3. Gutpela tri blo mi: Sandalwood	1	2	3	4	5	
b.	Would you like to see more VIDEOS at the Bara	akau Outreach Centre?	7	Yes	Т	No	)	
c.	Do you have a COMPUTER OF TOUCH SCREEN PHONE?		Yes			No		
	Would you like to ACCESS our video resource.	rces on your computer or phone?	1	Yes		No	5	

3. LANDOWNER REGISTRATION			
OUR QUESTION (Answer questions a-e and then add any comments to question f)	YOUR ANSWER		
a. What is your name?			
b. Where do you live?			
c. What are your contact details (email address and/or mobile number)			
d. Have you planted any trees on your land?	Yes	No	
e. Are you interested to plant some (more) trees on your land?	Yes	No	
Have you registered with Operation Painim Graun na Planim Diwai?	Yes	No	

 $\label{local-project} \mbox{ITTO Project: PD 552/09 Rev. 1 (F): } \mbox{\it Encouraging Customary Landowners in the Lowlands of Papua New Guinea's } \mbox{\it Central Province to reforest their Grasslands with High Value Trees.}$