

## Agroforestry in Palm Oil Plantations, Indonesia – Terms of Reference

We are looking to contract an experienced individual to conduct research to identify best practices in agroforestry for palm oil plantations in Indonesia, where community-based ecosystem restoration and livelihood development projects are being developed.

### I. CONTEXT

PUR Projet is a social business specialized in the implementation of long-term projects, aiming at improving smallholder farmers' livelihoods and increasing the resilience to Climate Change that impacts the ecosystems they depend upon. Projects are funded either by renowned private foundations or by insetting corporate programs.

Since its establishment in 2008, PUR Projet has been developing and implementing agroforestry, agroecology and capacity building projects in more than 50 countries with smallholding vanilla, cocoa or coffee farmers.

In 2013, PUR Projet began its first agroforestry project in Indonesia in the Gayo Highlands of Aceh Province, Sumatra, working with smallholder coffee farmers to help them build agroforestry into their land, and learn about Good Agricultural Practices (GAPs) for coffee production. So far, working with the KBQB cooperative, we have supported 800 farmers holding 600ha of land to implement these practices and plant >500,000 trees. Tree species planted include avocados and oranges, designed to create an important new revenue stream for farmers. Learning from successful implementation in Aceh Province we expanded our beneficiary area into Lampung and North Sumatera to improve coffee production and restore the ecosystem.

In 2016, we began a coral reef and mangrove restoration project in Pejarakan, Bali. Here, mangroves have been deforested to make way for shrimp farms and coral reefs have been destroyed over the last 60 years due to destructive fishing practices. Since then, we have planted 12,000 corals of 15 species and 72,000 mangroves. This project includes a waste collection program designed to remove plastic from the ocean, as Indonesia is the 2<sup>nd</sup> largest contributor to marine plastic.

In 2018, PUR Projet started operating in South-East Sulawesi, working with patchouli farmers to plant trees on farms, and designing community-empowerment programs. In 2020, we expanded our operations in the province to work with cocoa farmers, training them on agroforestry models and supporting the delivery of free tree seedlings. The objective is to reach out to 2,000 farmers and plant 56,000 agroforestry trees by the end of 2022.

The latest addition to the Indonesia project portfolio is a project in Java which kicked off early 2021. Working with coconut traders and farmers, the objective is to improve the coconut sugar supply chain's sustainability by providing training on regenerative agriculture practices, supporting the improvement of cooking stoves, and enabling increased environmental awareness among the community.

## II. THE STUDY: BEST PRACTICES IN PALM OIL AGROFORESTRY

The focus of this research study is the agronomic aspects of palm oil plantations, specifically in Indonesia but also identifying best practices that might exist in other regions. Research is expected to identify the following:

1. Palm oil in the Indonesian context, including but not limited to recent conditions, market actors, NGO actors, development trends, regulation, farming schemes, farmer behavior.
2. Correlation between palm oil plantations and deforestation, specifically drivers, trends, key regions
3. Agroforestry techniques and planting models for agroforestry in palm oil plantations, from Indonesia and/or other best practices around the world
4. List of tree species appropriate for palm oil agroforestry, with the following objectives: complementarity and non-competitiveness with palm oil, delivery of ecosystem services such as soil fertility & pest predation and sources of new incomes (timber, non-timber forestry products). Specify which are native to Indonesia and which have been used in other palm oil agroforestry in the world.
5. Complementary crops in addition to trees that could be planted in palm oil plantations, with the goals of rejuvenating soils and diversifying incomes, for example legumes to fix nitrogen (to rejuvenate soils) or other crops that could exist in a polyculture (to improve incomes).
6. Impacts (qualitative, quantitative) of agroforestry projects in Indonesia or other areas of the world on palm oil cultivation, including on deforestation, biodiversity, livelihoods, soil.
7. Regions of potential ecosystem restoration in palm oil areas in Indonesia, including scale (#ha, # farmers)
8. Carbon sequestration: high level analysis from restoration on palm oil plantations.
9. Any aspects of the VCS Carbon certification process that might be unique to palm oil.

### **III. Roles and Responsibilities of the Consultant**

The candidate will be responsible for conducting desk and field research and provide a report in English to PUR Projet no later than August 15th, 2021.

### **IV. Roles and Responsibilities of PUR Projet**

PUR Projet would like to follow the research progress closely, review the research protocol and methods, and provide additional clarification and/or deeper topics to research at a mid-point review with the consultant.

Compensation for this contract is fixed at \$3000 USD.

### **V. APPLICATION PROCESS**

The consultant is encouraged to submit to PUR Projet their CV, a short description of their research plan and timeline (1pg max), as well as an example of their work focused in sustainable palm oil cultivation and/or agroforestry in the region by Thursday June 24th, at 6pm Jakarta time. Submissions should be sent to [allison.bain@purprojet.com](mailto:allison.bain@purprojet.com) with “Application for Indonesia Palm Oil Consultant” in the subject line.