

Plan Vivo Project Idea Note (PIN) for Mtakimau Community Forest Association (CFA)



Project Title:	CFA Mtakimau Mangrove Forests Protection in Kilifi County, Kenya
Project Location:	Mtwapa, Takaungu, Kilifi and Mida Creeks Kilifi county, eastern coast of Kenya
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Project Aims & Objectives

The mangrove forests play an important role in shoreline protection, waste assimilation, and carbon sequestration, serve as an important habitat and breeding ground for fish and other fauna.

Besides the ecological importance of mangroves ecosystems, they are a **crucial source of livelihood for the coastal communities**, providing food (fish, crabs, prawns), local medicines, animal fodder, wood products (timber, building poles, thatch for the roofs, firewood, and charcoal, fishing stakes), as well as tourism-based income-generating activities. For poor rural families, the sale of wood or charcoal is usually the only source of income.

However, lack of awareness about its importance and the extreme poverty of people living in the coastal provinces expose mangrove wetlands to extensive cutting, resulting in a recorded loss of 10% (Kairo, 2002). Deforestation and degradation of mangrove forests leads to a reduction in the biodiversity of the forest and of the ocean, loss of their productivity, loss of the carbon-sequestration capacity, and coastal erosion.

Poverty and lack of suitable livelihood alternatives have been outlined as the main contributing factor of the overexploitation of mangrove forests.

The proposed project therefore aims for **protection and restoration of mangrove forests** and for the provision of **alternative livelihoods and materials** to the coastal communities along 4 mangrove “creeks” in Kilifi County in eastern Kenya, which is one of the 10 poorest regions in the country.

The project envisages generating **Plan Vivo Certificates for climate services** (carbon sequestration and GHG emissions reduction).

The revenues from the sale of the credits will be used to ensure the **sustainable management of the mangrove forests** as per the Plan Vivo and the Forest Management Plan, to **improve livelihoods** of the participating communities via food security and new income-generating activities, and to finance various **community development projects** in the Kilifi County.

Proposed Project Area

Project Location

Mangrove forests in Kenya belong to the Indo-West Pacific region. They are 99.98% indigenous, and follow a typical zonation pattern. The major mangrove areas in Kenya are in Lamu, Tana River delta, Mida Creek, Kilifi, Mombasa, and Gazi and Funzi Bays. There are nine mangrove species found in Kenya altogether, with *Rhizophora mucronata* and *Ceriops tagal* being the most dominant species.

The proposed project area involves four creeks along the coast of eastern Kenya:

- Mida creek
- Kilifi creek
- Takaungu creek
- Mtwapa creek

CFA MTAKIMAU MANGROVES FORESTS PROTECTION IN KILIFI COUNTY, KENYA

In the Mida, Kilifi and Mtwapa creeks, typical oceanic mangroves can be found while in the smallest Takaungu creek there are parts of combined oceanic and estuarial mangroves.

The project area involves mangrove forests and adjacent areas within 5 km perpendicularly from the mangrove forest boundary along a stretch of 63.7 km, forming a region of approximately 31,750 hectares.

Total mangrove area is 1,715 ha.

Figure 1 - Map of the project location



Administratively, the project area includes 14 villages along the 4 creeks in the county of Kilifi:

- Mida creek: Matsangoni, Uyombo,
- Kilifi creek: Kukuluni, Ndzombere, Maya, Kadaima, Mnarani, Kibokoni
- Takaungu creek: Takaungu, Kanyumbuni
- Mtwapa creek: Kidatuni, Mtepeteni, Mtwapa scheme, Mtwapa BMU (Customs)

All forests in Kenya are owned by government and their management is assigned to the governmental Kenya Forest Service (KFS).

In terms of the **forest administration**, the project forest area belongs to the Kilifi Zone Mangrove Forest Area, and is under the jurisdiction of the Sokoke Station Forest Manager. The area is then divided into four (4) smaller management units called “beats” (respective to the creeks) with assigned guards.

Legal conservation of areas within/near the project area:

The project area of Mida Creek overlaps with:

- Watamu Marine Park and Reserve

It is part of a complex of marine and tidal habitats stretching from Malindi town, encompassing Mida Creek and Whale Island. The important ecosystems are coral reefs, lagoon of seagrass beds, mangrove forests, and beaches.

<http://cca.kws.go.ke/Watamu.html>

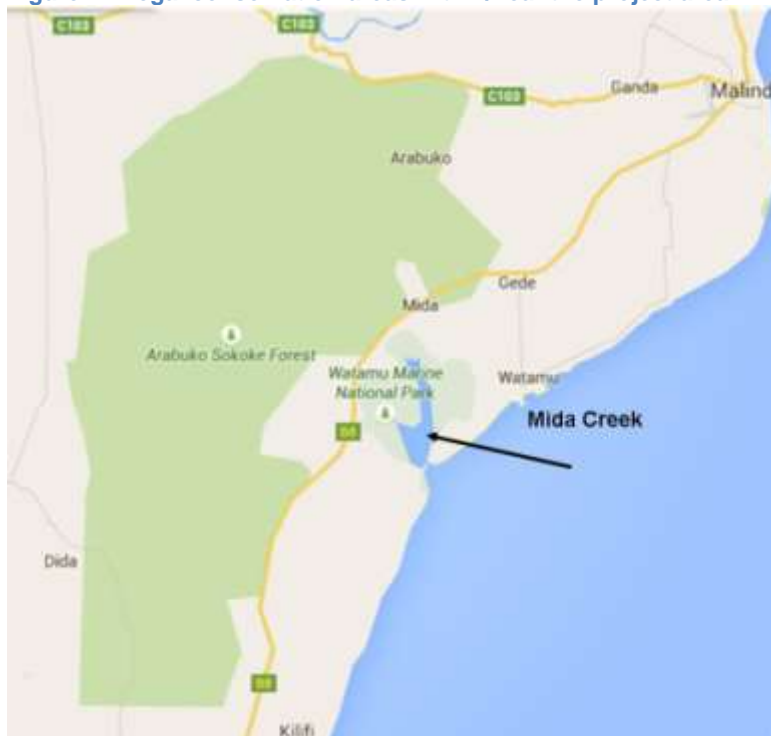
The project area of Mida Creek is adjacent to:

- Arabuko-Sokoke Forest

It is the largest single block of indigenous coastal forest remaining in East Africa, a world-renowned habitat for rare and endangered mammals and birds, as well as plants.

<http://cca.kws.go.ke/Arabuko.html>

Figure 2 - Legal conservation areas within/near the project area



Deforestation and degradation

All mangrove forests are protected by the law in Kenya; however, this is not fully enforced and the negative impacts of human activities keep on reducing and damaging these ecosystems.

Dependence of the local communities on mangroves is extremely high and their degradation and disappearance could have extreme consequences to their livelihoods. However, due the lack of awareness about sustainable ways of utilization

of the natural resources, the communities continue to destroy them. The understaffed and underfinanced government protection activities are insufficient to prevent the illegal cutting, to monitor and control, and to engage with the local communities to spread awareness as needed.

The main drivers of the deforestation and forest degradation:

- Population pressure, causing the ever-rising need for houses, materials, food, fuel wood, and income-generating activities;
- Extraction of several selected species and aged, high trees damages the forest's natural structure and leaves the forest weakened. The driver is income generation from their sale as construction poles (houses, animal shelters, fences, thatched roofs), timber (construction and furniture), and charcoal production as well as the clearing and conversion of the forests to new farmland. Very often these are unplanned and haphazard farms, and use poor farming practices like slash and burn;
- Clearing and conversion of the forests to new tourism facilities;
- Refugee camp (specific issue in the Mtwapa creek).

Socio-Economic Context

The region belongs to ten of the poorest in the country.

The poverty level in the county exceeds 68.5%, threatening mostly farmers and fishermen's families.

The population of the project area is typically rural, major economic activities are subsistence farming, fishing, and animal husbandry.

The major limiting factor to crop production is low soil productivity due to poor or low levels of soil nutrients, erratic and unpredictable rains, and poor farming technologies and practices. Rapid population growth has reduced the amount of land available for crop production.

Other activities include small-scale businesses like groceries, livestock, taxi, tailoring and selling of "makuti" thatches, and sale of wood products – poles, firewood and charcoal. Only 15% of the community people are in formal employment and an estimated 60% youth unemployment rate represents a great challenge for the community.

The total population in the 14 villages bordering the mangrove forest is 42,324 people, with an average family size of 12 people per household.

The population is culturally heterogeneous, with the largest indigenous ethnic group being the of the Mijikenda tribe - Kauma and Giriama people in Kilifi creek, Jibana and Giriama people in Mtwapa creek are its sub-tribe.

Other indigenous coastal ethnic groups in the area are the Taita, Pokomo, Bajuni, Orma, Sagala and Swahili.

Over the last century, a large number of migrants from other parts of the country (Central and Nyanza provinces) moved to the area in search of work in Mombasa and coastal plantations.

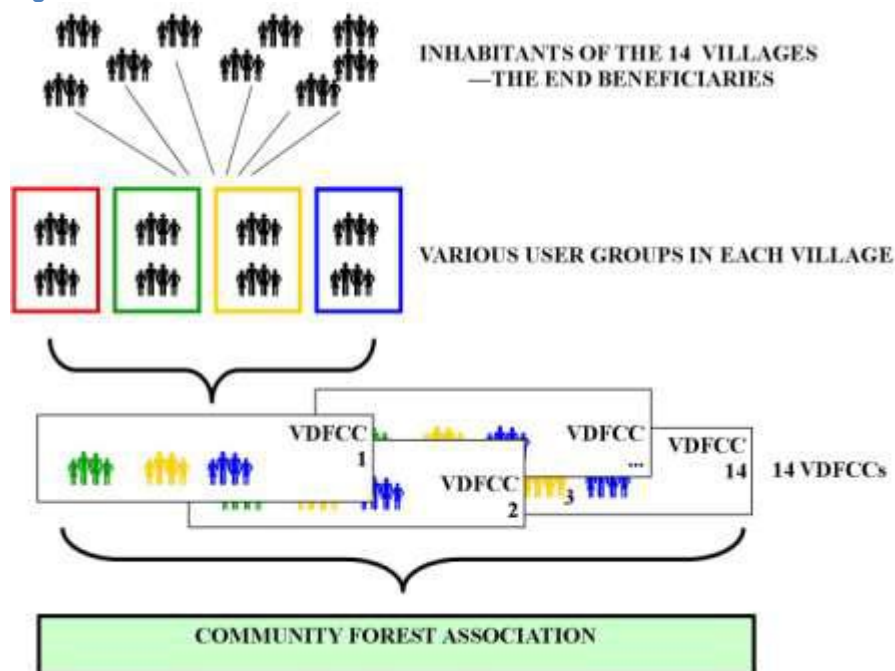
Target Groups & Communities

All the people of the project area will benefit from the project through improved forest conditions and the services that these ecosystems provide, as well as through the transferred knowledge of sustainable living that will be brought and disseminated amongst the people.

In the project villages, there are the so-called **Village Development Forest Conservation Committees** (VDFCCs) established where the members are assembled in **user groups** depending on their skills and interests such as mariculture (breeding of fish and shrimps), bee-keeping or ecotourism. The variety of user groups is large and their range may differ from village to village. However, each VDFCC included in the project has a user group that aims to protect mangrove forests.

In 2014, 13 VDFCCs¹ established the “**Mtakimau Mangrove Community Forest Association**” (further on referred to as “**Mtakimau CFA**”), a non-governmental community-based organisation (CBO) created to obtain the legal user rights to the mangrove forests and their resources according the national legislation. Currently, a 14th village has requested to join the CFA and, while it has since been approved by the CFA, the formal accession process is still on-going. Therefore, the project is prepared for all 14 villages.

Figure 3 - Communities established the CFA Mtakimau



¹ The 14th VDFCC is in the process of accession to the CFA; therefore the project is prepared for all the 14 villages.

Land Tenure & Carbon Rights

All forests in Kenya are owned by the government. According to the Forest Act (2005), the forest management strategies should be addressing genuine needs of the people, including participation of stakeholders in the conservation and management of the forest resources through collaborative management. The communities adjacent to forests are recognized as the key stakeholders and users of natural resources. The communities establish “community forest association” that then enter into an agreement with the government represented by the Kenya Forest Service, they cooperate on preparation of the Participatory Forest Management Plan (PFMP) for their area, and thus have legal tenure rights to sustainably utilize the forest.

The “**Mtakimau Mangrove Community Forest Association**” (further on referred to as “Mtakimau CFA”) has been established in accordance with this Act, and registered on 10.06.2014

The **Participatory Forest Management Plan (PFMP)** is under preparation. The communities are actively involved in its preparation – they have interacted with the Kenya Forest Service and external experts during the mapping and evaluation of the natural resources and the socio-economic situation. The communities also discussed the assignation of certain forest areas for the individual established user groups activities, agreed on forest protection competencies and on the re-plantation of destroyed forest areas.

Figure 4 - Participative mapping of natural resources in villages



Figure 5 - Hand-made map of the region made by the group of the villages' representatives



The PFMP is expected to be finalized in May 2015.

After the finalization of the PFMP, the **User rights agreement** will be signed between the CFA and the KFS and, thus, the legal rights to the forest resources and the carbon credits will be legally ensured for the communities.

Current understanding of carbon/ES rights

Reflecting the forest user rights ownership set-up, the carbon credits generation and distribution of the income will be done on community level.

The final beneficiaries will be the **14 community-level groups – the VDFCCs**, and their umbrella association, the **CFA Mtakimau**.

Thus, the ownership rights to the carbon credits to be generated from the activities in the mangrove forests they have user rights to will be direct and clear.

The principles of the carbon revenues have been introduced to the community already at the early stage, right from the start of the creation of the VDFCCs and the CFA in 2012. Afterwards, the VDFCCs elected representatives have participated in several meetings and trainings on mangroves protection, and carbon credits have been clearly referred to as the financing source for the protection activities. Therefore, they are included in the Participatory Forest Management Plan, prepared in cooperation with KFS and external experts.

The information on the carbon crediting principles, and the specifics of the *Plan Vivo* have been refreshed and further detailed to the VDFCCs' representatives during the CFA Forum in February 2015, where the government authorities representatives have participated, too, and supported the intent to submit the project to Plan Vivo. The understanding is passed on to members of the user groups in each village.

Project Activities

Eligible Activities (Envisaged to Generate PV Certificates)

The proposed project aims for **protection and restoration of the mangrove** forests and provision of **alternative livelihoods and materials** to coastal communities along 4 mangrove “creeks” in Kilifi county in eastern Kenya.

The project envisages generating **Plan Vivo Certificates for climate services** (carbon sequestration and GHG emissions reduction) from the following interventions:

- **Ecosystem restoration:**
 - Enabling natural recovery of degraded mangrove forest ecosystems through **protection (establishing no-cutting zones)**;
 - Restoring degraded mangrove forests by **planting natural species (mainly *Rhizophora* and *Avicenna*) in deforested areas and protecting the plantations**;
- **Prevention of ecosystem conversion or degradation:**
 - Prevention of further degradation of the existing (mature) mangrove forest ecosystems through **protection (establishing no-cutting zones)**;
- **Avoided deforestation** of the existing (mature) mangrove forest ecosystems.

Indicative potential for carbon benefits of the proposed project:

Project activity	Area*	Carbon (For the purpose of PIN assuming average 5 ton CO ₂ eq/ha/year)	Income (Assuming average price of 5 USD/t CO ₂)
Protection of existing (mature) mangrove forest	835 ha	4,175	20,875
Planting and protection of new plantation	2 ha per each village over the project lifetime 28 ha	140	700
Total		4,315 ton CO₂eq/year	21,575 USD/year

*The carbon baselines and potential carbon benefits for individual activities, assumed timeline, and enlargement of the project will be detailed in the PDD stage.

Leakage

Traditional drivers of the deforestation and forest degradation are tackled by the following activities:

Deforestation	Driver	Mitigation activity
	Need for fuel wood	Plantation of short-rotation coppices
		Awareness & trainings in improved cookstoves production and use
	Need for construction wood	Awareness & trainings in clay bricks production and use
	Conversion to farmland	Awareness & trainings in improved farming practices
	Conversion to tourism facilities	Awareness, enabling and promotion of ecotourism
Forest degradation	Need for construction wood & poles	Plantation of short-rotation coppices
	Need for wood for the refugee camp	Awareness (cooperation with government)

The mitigation activities in the Mida Creek will be specially consulted and designed in cooperation with the government bodies managing the two conservation areas Watamu Marine National Park and Arabuko/Sokoke Forest Reserve.

Additional (Non-Eligible) Activities

The project will include other **activities that will improve livelihoods** of the participating communities, and some will even further reduce/avoid CO₂ emissions even though they will not be accounted for the PES:

- Plantation of **short-rotation coppices as alternative** source of poles and fuel wood;
- **Community education**, trainings and pilot activities for:
 - Improved land use management (farming practices, agroforestry);
 - Alternative construction materials – production on un-fired clay bricks;
 - Improving the food security – mariculture, breeding of poultry and rabbits, food preservation and storage, growing of alternative crops;
- Promoting **new income-generating** activities:
 - Herbal products - from neem, aloe;
 - Honey and bees products; Ecotourism – e.g. boardwalk, snake-farm, butterfly-farm
- Promoting **energy saving**
 - Improved cook stoves.

Ecosystem services impacts

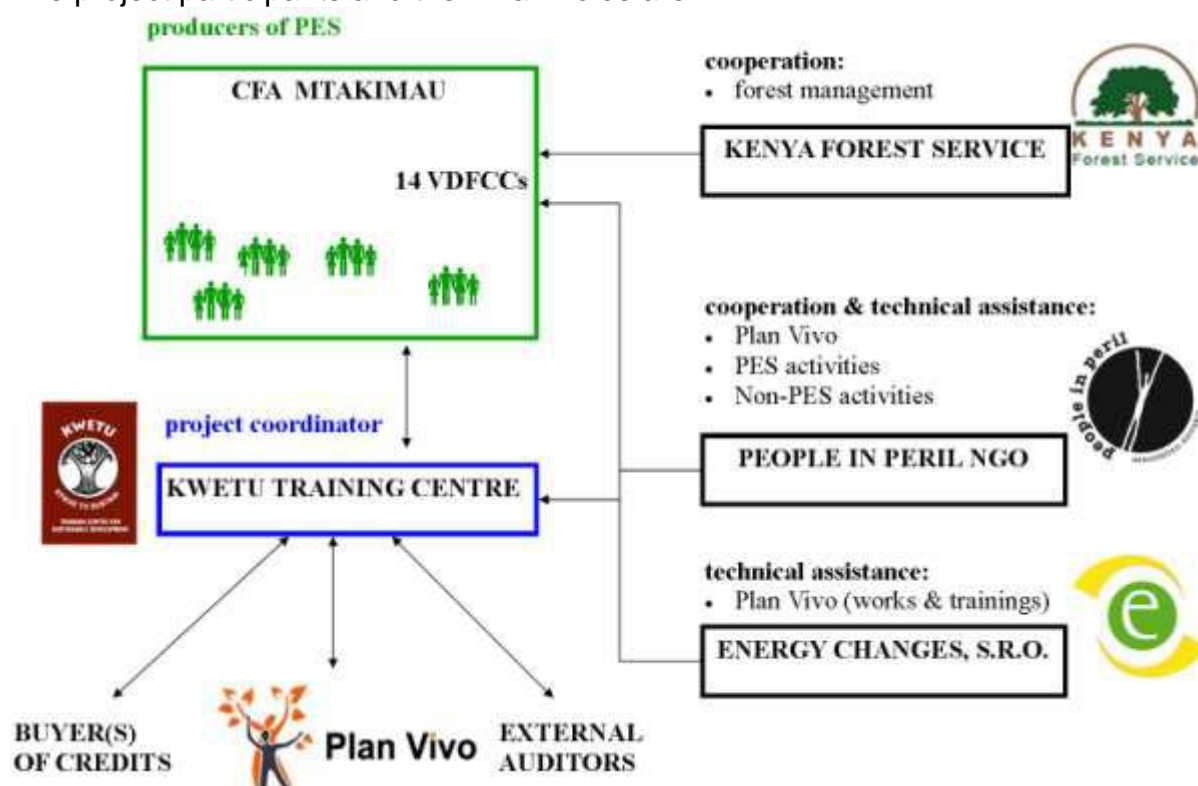
Protection and restoration of the mangroves will, naturally, have positive impact on the overall ecosystem of the coast and the livelihood of the local communities:

- Watershed and water quality benefits:
 - maintain water quality by trapping sediments in the mangrove root system
 - remove agrochemical and heavy-metal pollutants contained in sediments from the water,
 - remove organic and inorganic nutrients from the water
- Biodiversity conservation:
 - maintain the rich biodiversity of the mangrove forests
 - protect important habitats and breeding grounds of animals
- Coastal protection:
 - maintain and restoring protection of land from erosion and salinity
 - maintain and restoring protection of other coastal ecosystems (e.g. coral reefs) from excessive sedimentation
- Livelihoods of communities:
 - maintain the source of food and medicine for people, fodder for animals
 - maintain source of construction material, material for thatches, baskets, dyes
 - maintain the source of fuel
 - maintain the livelihood of rural communities of fishermen, crab, shrimp, and oyster farmers
 - enable ecotourism activities

No negative impacts are assumed due to the project implementation.

Organisational & Governance Structure


The CFA Mtakimau has assigned the role of project coordinator to Kwetu Training Centre. Kwetu is one of the user groups of the Mtwapa VDFCC. The project participants and their main roles are:



Applicant organisation


Name:	CFA Mtakimau
Legal status:	Mangrove Community Forest Association, NO. 45043
Representative:	Mrs. Grace Munga, chair person
Long-term objectives of the organisation	To improve and promote conservation and protect biodiversity, culture and social tradition; To enhance pro livelihoods through sustainable use of the mangrove forest for the benefit of present and future generation; To enlighten the community on the mangroves resources and conservation; Coordinate activities to all organized conservation groups; The enhance the capacity of communities in technical assistance and trainings; To advocate for HIV and AIDS prevention; To develop partnerships with partners, NGOS's, CFA's etc.
Brief history and achievements	Formation process of the CFA has been taking place since the beginning of 2012 with public sensitisation meetings in villages adjacent to the mangrove forests, followed by series of awareness trainings and forums including leadership trainings. CFA was registered on 10 th June 2014.
Summary of current activities including details of scale and range	Currently, CFA MTAKIMAU is taking part in participatory forest management plan preparation, including mangrove forest zonation.
Project roles	Main implementer

Project coordinator

<p>Name:</p>	<p>Kwetu Training Centre for Sustainable Development</p> 
<p>Address:</p>	<p>P.O.Box 685 80 109, Mtwapa, Mombasa, Kenya</p>
<p>Web:</p>	<p>www.kwetukenya.org</p>
<p>Legal status:</p>	<p>Community-based organisation (CBO), a non-governmental organisation (NGO), Reg.No. OP218/051/96178/893 (established 1996)</p>
<p>Representative:</p>	<p>Dr. David Obura, Chairman</p>
<p>Long-term objectives of the organisation</p>	<p>Food security Sustainable utilization of natural resources Environmental protection Protection of human rights Health HIV/AIDS awareness</p>
<p>Brief history and achievements</p>	<p>Kwetu has 25 years of experience with community development work, awareness, mobilisation, and training with objective of sustainable livelihood, food security and health of the local communities. Currently, Kwetu employs 14 people. The centre is financed from grants and sale of natural products – fish, neem products, honey, and bees’ products. Kwetu has a lot of experience with implementation and monitoring of projects funded by national and international donors, such as ReCoMaP, International Ocean Institute (IOI), UNDP Small Grant Program, SEED award, Global fund, Amkeni and Community Development Trust Fund (CDTF).</p> <p>Kwetu has established cooperation with important research and education institutions and governmental agencies:</p> <ul style="list-style-type: none"> - Kenya Marine and Fisheries Research Institute (KEMFRI) – cooperation in sustainable utilization of sea resources; - Kenya Forest Service (KFS) – cooperation in mangroves protection in Kilifi county, Mtwapa and Mida creeks, via education of the local farmers in suitable agroforestry and agriculture techniques; - Kenya Agricultural Research Institute Mtwapa (KARI Mtwapa) – cooperation in establishment of community poultry and cattle breeding activities, as well as organic farming. <p>TC has a strong focus on mangroves protection and their sustainable utilization.</p>
<p>Summary of current activities including details of scale and range</p>	<p>Kwetu TC has a strong focus on mangroves protection and utilization, being one of the user groups of the CFA Mtakimau itself. In mangroves protection, Kwetu has established good cooperation with all relevant government institutions (KFS,</p>

	<p>MFF, KEMFRI) and local communities living along the mangrove forests in the Kilifi county.</p> <p>Kwetu has intensive 4-year cooperation with Slovak NGO People in Peril.</p> <p>In partnership, they have received funding from the Slovak Development Aid for two projects that lead to the proposed Plan Vivo activity:</p> <p>Project SAMRS/2012/01 (June 2012-July 2014) for ecological farming, diversification of economy activities and restoration of mangrove ecosystems; which implemented the initiation and facilitation for the CFA establishment, awareness of the communities on the need of the mangroves protection, participatory mapping of the socio-economic, and natural resources of the area, preparation of the participatory forest management plan;</p> <p>Project SAMRS/2014/ on food security, sustainable farming, which implements trainings on PES and carbon finance, including registration and launch of the Plan Vivo project.</p>
<p>Project roles</p>	<p>Kwetu as the project coordinator will be responsible for</p> <p>Legal and financial issues: ensuring legal compliance by facilitating the process of registration with KFS, fair PES agreement, transparent and due payments</p> <p>Administrative functions: running an office, coordinating the communication, communicating with PV, the auditors, the partners and buyers, ensuring external advisory, fundraising</p> <p>Technicalities: conformance with the Plan Vivo Standard, coordinating the monitoring, facilitating the technical assistance & hands-on training is provided by partner organisation PIPA & external consultant. Social functions: facilitating the community engagement and decision making, ensuring continuous know-how transfer and education.</p>
<p>Personnel to be involved in the project with details of relevant skills and experience</p>	<p>Mr. Brendan Muli</p>

Project Partner 1

<p>Name:</p>	<p>People in Peril</p> 
<p>Address:</p>	<p>Pražská 11 Bratislava Slovakia</p>
<p>Legal status:</p>	<p>Non-governmental organisation (NGO) People in Peril is a non-profit civil society association, established in Slovakia in 1999.</p>
<p>Representative:</p>	<p>Jana Karellová, Director</p>
<p>Long-term objectives of the organisation</p>	<p>PIPA is a non-profit organization helping to bring sustainable improvements to the quality of life for the people in developing and transitional countries. We concentrate on alleviating poverty in the long term by means of economic, environmental and social development.</p> <p>In our activities we are focusing on: agriculture, food security, and environment, livelihoods, health and education, women empowerment, democracy, and human rights awareness. These topics are often closely intertwined; therefore, we have adopted a holistic approach that allows the focus areas of each project to overlap.</p>
<p>Brief history and achievements</p>	<p>Activities range from Humanitarian Aid and Development Cooperation to Human Rights Advocacy and Education and Awareness Raising Activities in Slovakia, and partner countries of the Slovak development aid, including Kenya.</p> <p>Activities include awareness and policy campaigns, capacity building and training for the local partner organizations and communities in the developing countries, field work and volunteers, ensuring analysis and assistance with strategy elaboration for the local partner, fundraising for the project implementation</p>
<p>Summary of current activities including details of scale and range</p>	<p>PIPA has had field workers in Kenyan regions (Nakuru and Mtwapa) for over 4 years, working on development projects in direct cooperation with the local partner organizations.</p> <p>In Mtwapa, PIPA is running a holistic project aimed at food security and community development, with budget around 300.000 EUR for 2 years. Besides animal husbandry, farming, bee-keeping, mangroves protection and sustainable utilization is one the key activities.</p> <p>The mangroves component of the project includes: ensuring elaboration of the background expertise and documentation (social and natural resources mapping); ensuring elaboration of the Participatory Forest Management Plan in cooperation with the Kenya Forest Service; ensuring external consultancy for elaboration of the documents for Plan Vivo; facilitating the registration of Plan Vivo project, launch, assistance with the monitoring, the first verification and sale of</p>

	<p>the credits; providing fitted trainings for the CFA, for Kwetu and the village communities.</p>
Project roles	<p>Facilitating the technical assistance, education & hands-on training: trainings for the CFA representatives from the 14 participating villages on mangroves importance, on PES schemes, on Plan Vivo, on monitoring and reporting; Thorough „learning by doing“ training for the project coordinator Kwetu on Plan Vivo management, monitoring, data processing, reporting, financial management, management of human resources; Education campaign on the project and PES principles directly in the villages, including a ceremony at the launch of the Plan Vivo project.</p> <p>Facilitating the community engagement and decision making. Consultancy/facilitation of the participatory preparation of the PES agreement, the payments structure & distribution form. Assistance with monitoring set-up and administrative processes for Plan Vivo, including the first verification. Start-up financing from SlovakAid.</p>
Personnel to be involved in the project with details of relevant skills and experience	<p>Dr. Lukáš Zorád, project manager, ecologist Over 4 years of experience working on community development projects in East Africa (Kenya, Tanzania, South Sudan) with focus on food security and rational natural resource utilisation and nature protection with special focus on mangrove ecosystems. Member of EAF PES (East African Forum for Payments for Ecosystem Services).</p>

Project Partner 2

Name:	Energy Changes, s.r.o.
Address:	Bratislava Slovakia
Legal status:	Ltd.
Representative:	Laura Martonova – managing director
Long-term objectives of the organisation	Environmental consultancy services in Slovakia and developing countries, focused on sustainable energy and natural resources utilization, emission reduction projects, carbon market, climate change mitigation and adaptation
Brief history and achievements	The company has 7 years history of providing quality environmental consultancy services. In developing countries the references include project development, set-up of monitoring and verification, marketing of carbon credits, environmental and social assessment and public participation. The references include countries of Africa, eastern Europe and Asia.
Summary of current activities including details of scale and range	<p>Excerpt of relevant references:</p> <ul style="list-style-type: none"> • NAMA for rural electrification in Namibia (2014-2015; UNDP); • Consultancy for NAMA application preparation on energy efficiency in Cookstoves Sector, Burkina Faso – (2013; UNIDO, Ministry of Environment and Sustainable Development of Burkina Faso); • Building National Capacity on Carbon Financing Projects Capacity building for carbon project development within a national programme on energy efficiency in the beer brewing sector in Burkina Faso (2012; UNIDO); • Empowering DRC communities through the use of Improved Cook Stoves (Gold Standard CDM PoA), Republic of Congo (2013; UNDP MDG Carbon); • West African Domestic Biodigester Programme of Activities (Gold Standard CDM PoA) (2012; UNDP MDG Carbon & SNV Burkina Faso); • Feasibility study for SSC CDM project in Tanzania “Use of wood waste from harvesting and wood processing for power production and briquettes production” (2010; Green Resources, Norway); • Sustainable Energy Initiative of EBRD, Poland/Turkey - As part of the Sustainable Energy Initiative, JI/VCS Development of a new small scale carbon methodology for Mass Rapid Transit projects, implementation of the new methodology for 2 pilot projects in Turkey and Poland, validation and determination support (EBRD); • Local technical assistance; EIB’s Green Initiative, (2011- ongoing; EIB & Tatra Banka, Slovakia); • UAE Solar Programme of Activities, Preparation of PoA-DD & CPA-DD, monitoring plan and CME Manual Validation support (2012; Dubai Carbon Centre of Excellence (DCCE)); • External expert evaluator for European Commission’s Agency for Innovation and Competitiveness, Intelligent Energy Europe Programme (2010; EAIC Brussels);

	<ul style="list-style-type: none"> • External expert evaluator for EEP - S&EA (Energy and Environment Partnership Programme with South & East Africa), (2010; EEP of Austrian Development Agency).
<p>Project roles</p>	<p>For the CFA Mtakimau Plan Vivo project, the company is providing expert consultancy, advisory and capacity building activities in cooperation with PIPA and Kwetu:</p> <ul style="list-style-type: none"> • Technical assistance – elaboration of the PIN, technical specifications, the PDD, and the monitoring plan; • Assistance with monitoring set-up and administrative processes for Plan Vivo, including validation, communication with the PV and auditors, the first verification; • Thorough „learning by doing“ training for the project coordinator Kwetu on Plan Vivo management, monitoring, data processing, reporting, financial management, management of human resources; • Consultancy/facilitation of the participatory preparation of the PES agreement, the payments structure & distribution form. <p>Assistance with the project promotion, carbon credits marketing and sale.</p>
<p>Personnel to be involved in the project with details of relevant skills and experience</p>	<p>Laura Martonova, senior expert MSc. In environmental geology, and MSc. in renewable energy For the last 7 years, she has been working in the field of international climate policies, strategies and emission reduction projects where her experiences include identification and development of energy and carbon projects, programmes, standardized baselines under different schemes (JI/CDM of the Kyoto Protocol, Gold Standard, Climate Action Reserve, and VCS).</p> <p>Laura has prepared numerous PDDs (including PoA-DDs) covering the countries in transition, developing countries, as well as least developed countries (e.g. in CEE region, East Africa, Sahelian Africa, Arabian Peninsula, and Latin America).</p> <p>Other relevant qualifications include competence for Environmental Impacts Assessment for various activities, Implementation of Environmental Management System (ISO 14 001), lecturing on complex approach to energy efficiency in local and regional energy concepts, and 20 years of experience in public awareness raising and promotion of energy efficiency and renewable energy sources (as member of an environmental NGO) in Slovakia.</p>

Community Participation & Long-Term Sustainability Drivers

Community-Led Design Plan

The community participation and benefits in this project are the central focus, since the early beginning and on all levels:

- Thanks to the recognition of participatory approach to the forest management in the national legislation of Kenya, the communities have the legal user rights to the forest and must be involved in the forest management and utilization;
- The KFS and other involved institutions conscientiously apply the participatory approach during the PFMP preparation – by resource mapping, identification of the important sites, identification of communities needs and utilization patterns, and agreeing on the forest management practices;
- The community development organisation Kwetu (acting as project coordinator for Plan Vivo) in cooperation with the Slovak NGO PIPA have initiated the involvement of the village communities by information campaign, education, and forming of the CFA. Facilitation of the CFA establishment included the necessary cooperation with the government institution, preparation of the CFA establishment papers and creation of the structure, until the successful registration. The CFA establishment was followed by specific education of the representatives of the villages (the VDFCCs);
- Kwetu and PIPA have enabled exchange of information with another Kenyan CFAs, and especially the other mangrove-protecting CFA, which is as well participating in Plan Vivo project, the Mikoko Pamoja. Their insight, sharing approach and wish to pass the know-how further, in order to enable all other communities to benefit from the Plan Vivo and from sustainable mangrove forests, are invaluable for the learning and motivation of the project communities. As a result, the CFA Mtakimau wishes to continue the cooperation and sharing legacy of Mikoko Pamoja as well;
- And last, but not least, the proactive and vigorous involvement of the communities themselves, their interest and enthusiasm are crucial drivers of the project itself, as the whole idea of protection of the natural mangrove treasure of the coastal communities.

Additionality Analysis

The project is not the product of the legislative decree – the Forest Act gives the communities the user rights but does not enforce the activities. All over Kenya, the CFAs are in early stages of formation, requesting large time and energy resources, not being “business-as-usual”. Formation and activities of the existing CFAs are very often funded and supported by external sources and expertise. The other CFA managing the mangrove forests is the Mikoko Pamoja in Gazi Bay. They have profited from the external technical assistance, and they are registered under Plan Vivo as well, proving the need of the source of income from the carbon credits.

The project is not a commercial initiative; it is not economically viable in its own right. Mangrove protection will not bring any direct financial benefit to the communities (in contrary, the objective is to reduce income from illegal cutting).

The project activities will only provide payments to sustain the activities, to educate, and run small development projects in the villages. The plantation of trees to be used as poles in construction works are not planned for sale as additional income, but to replace the need for construction wood and to replace the lost income from sale of the mangrove wood.

Barriers to implementing the proposed project are mainly economic in nature, with interconnected social and cultural barriers, and barriers due to the lack of technical skills and knowledge.

The proposed project aims to reduce, mitigate the barriers. In fact, the project itself is a complex mitigation activity for the target communities towards more sustainable livelihoods.

Barrier		Mitigation activity
Economic	High level of poverty among the forest adjacent communities hence people view forest as a resource for own subsistence and/or to generate income.	Awareness on sustainable use and management of the forest Plantation of short-rotation coppices as alternative for poles and fuel wood
	High level of unemployment in the local population especially young adults who don't have required skills and training to obtain good paying job. They rely on illegal activity within the forest as income generation.	Awareness & trainings in improved cookstoves production and use to reduce the need for fuel wood Awareness & trainings in improved farming practices to increase the yields from the farm land Awareness & trainings in clay bricks production and use to reduce the need for construction materials Awareness on new income generation potentials Awareness, enabling and promotion of ecotourism
	No ownership of resources for running the tree nurseries and plantation activities	The revenue from the credits will be used
Social & cultural	Population rise causing higher pressure on all natural resources	Awareness (as above)
	Low literacy levels leading to low adaptation of new ideas.	
Technical & knowledge	Low knowledge and skill in tree nursing & plantation	Awareness & trainings in tree nursing & plantation
	Missing know how on sustainable forest management practices	Awareness on sustainable use and management of the forest
	Low knowledge and skill in use of alternative source of building materials, i.e. clay bricks.	Awareness & trainings in clay bricks production and use

As demonstrated, the existing barriers prevent implementation of the proposed project but with the benefits derived from the Plan Vivo Certification, the project activities will mitigate the barriers.

Therefore the project is assumed additional.

Compliance with Regulations

As described above, the establishment of the CFA Mtakimau as the project owner has been done in full compliance with the Forestry Act and in cooperation with governmental institutions.

The project activities will be done in line with the agreed and approved Participatory Forest Management Plan.

The project coordinator has notified via emails the relevant national regulatory bodies of the project proposal:

- Kenya Forest Service, National REDD+ Steering Committee
- Ministry of Environment, Water and Natural Resources, National climate change focal point
- National Environment Management Authority, Designated National Authority

After the project is registered with the Plan Vivo system, the project coordinator will re-notify all relevant entities, in cooperation with KFS.

Identification of Start-Up Funding

Kwetu and PIPA have received funding from the Slovak Development Aid for two projects that lead to the proposed Plan Vivo activity:

- Project SAMRS/2012/01 (June 2012-July 2014) for ecological farming, diversification of economy activities and restoration of mangrove ecosystems; which implemented the initiation and facilitation for the CFA establishment, awareness of the communities on the need of the mangroves protection, participatory mapping of the socio-economic, and natural resources of the area.

Implemented activities in detail:

- Purchase and distribution of 500 efficient stoves and trainings on installation and usage (11/2013-05/2014)
- One day stakeholders forum on the importance of mangrove forest protection (12/2012)
- Establishment of the CFA and preparation of PFMP:
 - Four days training on Participatory Forest Management plan (01/2013)
 - One day meetings – introduction to PFMP (02-03/2013)
 - Socio-economic survey of mangrove forests (09-10/2013)
 - Mangrove forest resources mapping (11-12/2013)
 - One day forum of CFA before and after the forest survey
 - Participatory forest management plan preparation
 - Three days training on leadership and management of CBOs
 - Exchange visit between CBO from Kilifi and Koibatek Molo
- Tree planting:
 - One day workshop on tree nursery managements
 - Planting of 200.000 mangrove seedlings
- Project SAMRS/2014/ titled “*Increasing economic self-sufficiency and food security through the agricultural development and protection of natural resources on the East Coast of Kenya*”. The main aim of the project is to

increase economic self-sufficiency and food security through the agricultural development and the protection of natural resources on the East Coast of Kenya, which includes the registration and launch of the Plan Vivo project.

This project provides financing for:

- The initiation of a Participatory forest management planning process for the mangrove forest along the Kilifi – Mtwapa creeks with other key partners (KFS, NEMA, KIMCCO);
- Technical assistance: elaboration of the Plan Vivo documents, validation and registration costs, including the first year monitoring and verification;
- Trainings in monitoring and reporting and PV project management;
- Training of the group leaders for educational campaigns on PES;
- Trainings for the communities in various food sufficiency issues (fish breeding, bee keeping) and trainings in tree planting.

Appendix 1 – Statement

Mtakimau Mangrove Community Forest Association (CFA)
Registered by Register of Societies of Kenya under Nr. 45043, on June 10th 2014

Plan Vivo Foundation
Thorn House
5, Rose Street
Edinburgh, UK
EH2 2RP

Dear Plan Vivo Foundation,

We hereby confirm that for the purpose of registration of our mangrove protection project "CFA Mtakimau Mangrove Forests Protection in Kilifi County, Kenya", the CFA Mtakimau, as the applicant organisation and the Kwetu Training Centre for Sustainable Development (Kwetu), as the assigned project coordinator will comply with both the national and international regulations, and the Plan Vivo criteria.

We hereby authorize our partner NGO People in Peril from Slovakia, and technical consultant company Energy Changes from Slovakia to communicate the project technicalities with The Foundation on behalf of CFA Mtakimau.

The Project Idea Note submitted on April 22nd 2014 for your review has been submitted in our mutual cooperation and on behalf of CFA Mtakimau, thus with our full consent.

Mrs. Grace Munga, chair person
CFA MTAKIMAU
Applicant organisation



Mr. Bréndan Mull
Kwetu Training Centre
Assigned project coordinator



Appendix 2 – Notifications

Mtakimau Mangrove Community Forest Association (CFA)
registered by Register of Societies of Kenya under Nr. 45043, on June 10th 2014

Ministry of Environment, Water and Natural Resources
National climate change focal point
Nhiif Building, 12th Floor, Ragati Road, Upperhill
P.O BOX 30126-00100
Nairobi, Kenya

Dear NCCFP representatives,

Hereby we would like to inform you that we intend to register our mangrove protection project "CFA Mtakimau Mangrove Forests Protection in Kilifi County, Kenya" under the ecosystem services payment scheme of the Plan Vivo Foundation (www.planvivo.org), in order to generate credits for GHG emissions reduction.

The CFA Mtakimau is the applicant organisation.

The **Kwetu Training Centre for Sustainable Development** (Kwetu) is the assigned project coordinator.

The project is developed and will be implemented in cooperation with our partner NGO **People in Peril** from Slovakia, and technical consultant company **Energy Changes** from Slovakia, as well as with support of the **Kenya Forest Service**, Kilifi.

Expected project start is July 2015, after successful registration.

Please, see the details in the attached draft Project Idea Note (PIN).

Yours sincerely,

Mrs. Grace Munga, chair person
CFA MTAKIMAU
applicant organisation



Mr. Brendan Mull
Kwetu Training Centre
assigned project coordinator



Mtakimau Mangrove Community Forest Association (CFA)
registered by Register of Societies of Kenya under Nr. 45043, on June 10th 2014

**National Environment Management Authority
Designated National Authority**

Pepo Road, South C, off Mombasa Road
P.O. BOX 67839-00200
Nairobi, Kenya

Dear DNA representatives,

Hereby we would like to inform you as the Designated National Authority of Kenya for the Kyoto Protocol that we intend to register our mangrove protection project "CFA Mtakimau Mangrove Forests Protection in Kilifi County, Kenya" under the ecosystem services payment scheme of the Plan Vivo Foundation (www.planvivo.org), in order to generate credits for GHG emissions reduction.

The CFA Mtakimau is the applicant organisation.

The Kwetu Training Centre for Sustainable Development (Kwetu) is the assigned project coordinator.

The project is developed and will be implemented in cooperation with our partner NGO People in Peril from Slovakia, and technical consultant company Energy Changes from Slovakia, as well as with support of the Kenya Forest Service, Kilifi.

Expected project start is July 2015, after successful registration.

Please, see the details in the attached draft Project Idea Note (PIN).

Yours sincerely,

Mrs. Grace Munga, chair person
CFA MTAKIMAU
applicant organisation



Mr. Brendan Muli
Kwetu Training Centre
assigned project coordinator



Mtakimau Mangrove Community Forest Association (CFA)
registered by Register of Societies of Kenya under Nr. 45043, on June 10th 2014

Kenya Forest Service
National REDD+ Steering Committee
P.O BOX 30513-00100
Nairobi, Kenya

Dear NRSC representatives,
Hereby we would like to inform you that we intend to register our mangrove protection project "CFA Mtakimau Mangrove Forests Protection in Kilifi County, Kenya" under the ecosystem services payment scheme of the Plan Vivo Foundation (www.planvivo.org), in order to generate credits for GHG emissions reduction.
The CFA Mtakimau is the applicant organisation.
The Kwetu Training Centre for Sustainable Development (Kwetu) is the assigned project coordinator.
The project is developed and will be implemented in cooperation with our partner NGO **People in Peril** from Slovakia, and technical consultant company **Energy Changes** from Slovakia, as well as with support of the **Kenya Forest Service**, Kilifi.
Expected project start is July 2015, after successful registration.

Please, see the details in the attached draft Project Idea Note (PIN).

Yours sincerely,

Mrs. Grace Munga, chair person
CFA MTAKIMAU
applicant organisation

Mr. Brendan Muli
Kwetu Training Centre
assigned project coordinator

