



2021 Plan Vivo Annual Report Mikoko Pamoja

Submitted by the Mikoko Pamoja Community Organization

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Acronyms

ACES	Association for Coastal Ecosystem Services
CFA	Community Forest Association
GOGACOFA	Gogoni-Gazi Community Forest Association
KFS	Kenya Forest Service
KMFRI	Kenya Marine & Fisheries Research Institute
MPCO	Mikoko Pamoja Community Organization
NGO	Non-governmental Organization
PES	Payment for Ecosystem Services
PFMP	Participatory Forest Management plan
PVC	Plan Vivo Certificates
KCNRN	Kwale County Natural Resource Network
WOD	World Ocean Day
HSH	Home Street Home
VBf	Vanga Blue Forest
WAP	Women Working Against Poverty
CI	Conservation International
ICCF	International Conservation Caucus Foundation

Glossary

Blue Carbon; The carbon captured by living organisms in oceans which is stored in the form of biomass and sediments from mangroves, salt marshes and sea grasses.

Carbon credits; A carbon credit is a generic term for any tradable certificate or permit representing the right to emit one tonne of carbon dioxide or the mass of another greenhouse gas with a carbon dioxide (tCO_{2e}) equivalent to one tonne of carbon dioxide.

Plan vivo foundation; The Foundation reviews and registers projects according to the Plan Vivo Standard, issues Plan Vivo Certificates annually following the submission and approval of each project's annual report, and acts as overall 'keeper' of the Plan Vivo System which is periodically reviewed in consultation with projects and other stakeholders.

Summary

Project Overview	
Reporting period	1 st January 2021– 31 st December 2021
Geographical areas	Gazi Bay mangrove forest
Technical specifications in use	Mikoko Pamoja

	Historical (2014- 2020)	Added/Issued this period (2021)	Total
No. smallholder households with PES agreements	0	0	0
No. community groups with PES agreements (where applicable)	1	0	1
Approximate number of households (or individuals) in these community groups	700	381	1081
Area under management (ha) where PES agreements are in place	117.4ha	0	117.4ha
Total PES payments made to participants (USD)	\$96,915.10	\$22,408.71	\$119,323.81
Total sum held in trust for future PES payments (USD)	\$4,064.05*		
Allocation to Plan Vivo buffer (tCO ₂)	2,483	369	2,852
Saleable emissions reductions achieved (tCO ₂)	13,966	2,043	16,009
Unsold Stock at time of Submission (PVC)	0		
Total Unsold Stock (PVC)	0	0	0
Plan Vivo Certificates (PVCs) issued to date			13,966
Plan Vivo Certificates requested for issuance (2021 Vintage)			2,043
Plan Vivo Certificates available for future issuance (REDD only)			0
Total PVCs issued (including this report)			16,009

*this is the total balance in the ACES account, including anticipated costs. See Table G1

Part A: Project updates

A1 Key events

12th January 2021 – Vanga Committee Training

A training on project governance was held at the VBF boardroom in Vanga. In attendance were members and/or officials from MP, VBF, KMFRI, Social Service Department and ex- official members from both projects (Village head and Area Chief). This training aimed to inform the VBF and MP committee members of the project operations/functions as well as how to effectively run a project. Concerns were addressed with an action plan formulated, among which the formulation of by-laws and a sequel induction was meeting for the committees.



Figure 1: Left: committee members from VBF and MP. Right: A representative from the Social Service Department speaking to participants on project governance.

29th February 2021 – Shimoni Port

The National Environmental Complaints Committee (NECC) through the Kwale Natural Resource Network invited MP to a stakeholder meeting held at the KWS headquarters in Shimoni. The NECC was set out to carry out monitoring on the infrastructural project at Shimoni Port engaging stakeholders from government lead agencies, communities, Civil Society Organizations and Community Based Organizations as well as other interest groups in Kwale County. The aim of the activity was to ensure that anticipated environmental degradation was well mitigated.

4th and 5th March 2021 – School Outreach programme

MP visited Emely Primary School for an engagement with the students as part of its awareness creation program in matters of sustainable conservation. We believe that the young generation has a bigger role to play in securing a healthy planet where empowerment serves as a productive tool. The 2-day activity was graced with the participation of Ms. Marianna Stamati, a biologist from the Ministry of Environment in Argentina, who volunteered her efforts into MP's field activities. Among the sessions were presentations on mangrove ecosystem conservation, socio-economic and environmental aspects of Argentina, marine animal art and a dance session. The school also received some gifts i.e. football, snacks, stationery, courtesy of Ms. Marianna.



Figure 2: Left: Ms. Marianna giving a presentation on the Social, Cultural and Environmental aspects of her country, Argentina. Right: Class 8 students from Emely Academy

March 29th to April 4th

Mikoko Pamoja project was selected as one of the success stories to be showcased in the Earth Optimism Nairobi Summit. The virtual event took place from March 29th to April 4th with a series of activities '*showcasing Stories of Hope*' being one of the main activities. Mikoko Pamoja's work on restoration and conservation of mangroves among other projects was able to inspire over 20,000 people reached through the summit.



Figure 3: A woman from Gazi Bay participating in the forest monitoring exercise

9th March, 19th July, 2nd August 2021 – Sea grass stakeholder consultation meeting

Several consultation meetings were held to inform and gain opinion from the Gazi BMU members about the sea grass bundling concept. The concept seeks to merge sea grass conservation with mangrove conservation as part of an MP PES scheme. These meeting were attended by representatives from Gazi BMU, MP, KMFRI, KFS and Vanga BMU. Further discussions are set to take place to conclude.

14th March 2021- KWS stakeholder meeting

Mikoko Pamoja, among other organizations, was invited to a stakeholder meeting conducted at KWS offices, Shimoni. The meeting was graced with several representatives from various organizations such as VBF, Diani Turtle Watch, Wasini Women Group, Kibuyuni Sea weed farmers, REEFolution Foundation, Mkwiro BMU, among others. Participating organizations got to interact with the KWS board members, and discussed further ways of collaboration to ensure sustainable natural resource utilization and management.



Figure 4: representatives from various public and private organisations within Kwale county attending the KWS stakeholders attending

22nd and 23rd March 2021 – Stakeholder Policy Dialogue in Climate Change Budgeting

Organized by the Initiative for Law and Environmental Governance (ILEG) and the Kwale County Natural Resource Network, the policy dialogue brought together 30 participants drawn from the local communities, NGOs, private sector, national and county governments. It sought to provide a platform for debate to appreciate and prioritize climate change in budget making processes as well as build capacity to local communities to advocate for county budgetary allocations to support public participation on the Draft Policy and Bill.

25th April 2021- COVID-19 support program

Mikoko Pamoja continued to support the local communities as part of its COVID-19 rapid support programme by donating food packages to the needy groups. Among those considered were the elderly, physically challenged, widow and widowers. USD2000 was used to facilitate the activity to 230 households in both villages.



Figure 5: A member of the MPCO committee giving away a food package to an elderly woman from Gazi Village.

8th June 2021 – Celebrating World Oceans Day

This year's celebrations marked the theme "Oceans and Livelihoods", recognizing people's efforts in the conservation of coastal ecosystems, their importance and contribution to economic empowerment. The event was hosted by the Makongeni Pry School with representatives from KCNRN, KFS, KISCOL, HSH and Emely Academy participated. 700 terrestrial tree seedlings of three species were planted namely *Arborrhea*, *Terminalia* and *Senna sp* as part of the MP's leakage mitigation strategy. Due to unavailability of *Casuarina sp* seedlings, the three served as good alternatives as they too were fast growing species with the *Arborrhea sp* in particular, being resistant to herbivory. This exercise served also as an awareness creation initiative for the school children and an effort to sustainability in environmental conservation. However, the effects of climate change have been limiting the amount of rainfall received, resulting in death by drought for 80% of the planted seedlings.



Figure 6: Left: Participants from KISCOL, Makongeni Pry, Emely Academy, KFS, KCNRN and HSH celebrating WOD. Right: Mr. Muhammad, a KFS official helping students from Makongeni Pry and Emely Academy plant a tree.

23rd July 2021 - Launch of GOGAGOFA PFMP

The GOGAGOFA CFA renewed its PFMP and signed a management agreement with the KFS in a colorful event held in Makongeni football ground. The PFMP 2021-2025 allows for the co-management of natural resources between KFS and the local communities. Mikoko Pamoja, as one among the user groups, showcased its activities, detailing on the project implementation, milestones and aspirations. Among other attendees were KMFRI, VBF, WWF-Kenya, Base Titanium, etc.



Figure 7: Left; Ms. Rahma Kivugo, Mikoko Pamoja's PC giving a presentation on the project to KFS senior officials. Right; Officials from KFS and the GOGAGOFA CFA sign the new PFMP.

26th July 2021 - World Mangroves Day

This year's mangrove celebrations were held in Jomvu, Mombasa County. Civil Society Organizations, NGOs, private companies/individuals, local community members, national and county governments participated in the event to recognize and appreciate the contributions made by mangrove ecosystems to economies, biodiversity and climate change.



Figure 8: Left; Ms. Mwanarusi Mwafrika, VBF's project coordinator and a member of the VBF committee presenting on their project.

22nd August - Lulu High School Visit

18 students from Lulu High School visited the project for an educational tour to the mangrove ecosystem. The students got to learn about marine ecosystem conservation and

management with insights into associated career pathways. This was one among several other visits made by university, private organizations, government and individuals to learn about the ecosystem, project replication and partnership development.



Figure 9: Left; Form 4 students from Lulu High School getting a field lesson on mangroves. Right; Mikoko pamoja committee meets with a researcher from Oxford University to discuss how the project is making blue economy a reality as well as possible collaboration around blue carbon research

2nd and 9th July Community barazas

Gazi and Makongeni villages held barazas to prioritize on 2021's community projects. With both meetings registering a good turnout of participants. Gazi prioritized on matters of water access and sports, while Makongeni listed out the following;

- Business stalls
- Football team equipments (balls, first aid kit, uniform)
- Mosque water tower and tank
- Community toilets



Figure 10: Left; Gazi community baraza. Right; Makongeni community baraza

Sept and October 2021-Seminar (Understanding the constitution and its amendment

30 participants from the committee, selected community members from both villages, representatives from KMFRI, Kenyatta University and the Social Service Department went on a workshop to discuss the project constitution. A formal request made by the committee was to create an understanding and review the constitution for possible amendments.



Figure 11: MP Chairperson, Mr. Abdillahi Changu, addressing participants.

25th November – REDD+ assessment and Mikoko Ujamaa visit

Representatives from Conservation International (CI) visited MP to undertake a short field research assessment on REDD+ safeguards. CI has been supporting the Government of Kenya on nesting discussions and this endeavor is in line with advancing nesting arrangements on all fronts, including regarding safeguards. The team gave a presentation on REDD+ Nesting attended by students and staff from KMFRI, Mikoko Pamoja and Women Against Poverty (WAP), a non-profit organization in Tanzania established to improve socioeconomic conditions of women and youth living in vulnerable conditions. Ms. Mary Gemela visited the project for insights on the establishment and implementation of a blue carbon PES scheme. She and her team wish to start a similar venture for the benefit of the environment and the local people in a project called Mikoko Ujamaa.



Figure 12: Left; Ms Mary Gamela introducing her project Mikoko Ujamaa. Right; Staff and students from KMFRI, MP and WAP listening in on a REDD+ nesting presentation from CI officials.

6th December 2021

The International Conservation Caucus Foundation (ICCF) Group visited Gazi on 6th December for the East Africa Regional Inter Parliamentary Field Mission. The purpose of the field mission was to raise legislative awareness on importance of mangroves to coastal management, and feasibility of blue carbon markets. Invited participants were ten Members of Parliament from Kenya, Mozambique and Tanzania who are members of parliamentary

conservation caucuses in their countries.

During the Field Mission, the parliamentarians were able to engage with organizations working within the Gazi Mangrove Site, visit the mangrove boardwalk, and hear on the importance of mangrove ecosystems for fisheries, shoreline protection, carbon storage as well as to the community. The goal was to discuss the feasibility of Blue Carbon markets through mangroves to help each country reach their Nationally Determined Contribution (NDC) and additionally address the public commitment to address climate change.



Figure 13: The Gazi Bay community, parliamentarians, ICCF, pose for a group photo. Right; MP chairperson addressing participants.

17/18th December - AGM and Committee elections

MP held its Annual General Meeting for the two communities. These discussed the progress of the project, finances, activity work plan 2020, committee elections, employment opportunities, community development projects, water projects, project implementation challenges and aspirations.



Figure 14: MPCO holding an AGM in Makongeni village.

A2 Successes and challenges

Successes

Revenue

Sales of carbon credits this year have earned GBP 17907.39 for Mikoko Pamoja. This revenue has benefited the local community (further information in Annex 2).

COP 26

With this year's COP 26 event held in Glasgow to enhance global efforts in climate change mitigation adaptation and resilience through financing and collaboration, our Project Coordinators, Ms. Rahma Kivugo and Mwanarusi Mwafrica from Mikoko Pamoja and Vanga Blue Forest respectively, represented local community efforts in marine ecosystem conservation in the Southern Coast of Kenya. The duo participated in various events in relation to COP26, among them being;

- Community Conservation, corporate action and COP26
- Discussing climate action at all levels with Edinburgh Napier University
- Talking with students from StrathUnion-After the Pandemic, RETHINK, REIMAGINE, REDESIGN
- Finisterre's Ocean Mic
- Discussions on blue carbon panels
- Talking mangroves, Kenya and COP26 at Haddington Primary School



Figure 15: Right; Ms. Mwanarusi Mwafrica and Rahma Kivugo, VBF and MP project coordinators respectively attending COP26 in Glasgow. Left; Ms. Rahma Kivugo sitting in one of the blue zone's panel discussions on the importance of blue carbon ecosystems in climate change mitigation and adaptation.

Ass. Project Coordinator

The project is set to recruit a new Ass. Project Coordinator early 2022 to assist with office administration and community engagement duties. This will facilitate more job opportunities for the locals, while in turn building knowledge and skill capacity in the area.

Partnerships

Mikoko Pamoja has secured a long-term partnership with a German organization called HEIMATLICHTER GMBH, an organization working on fine art, landscape photography and training around photography with a goal of sustainability and addressing issues on climate change. HEIMATLICHTER GMBH will provide Mikoko Pamoja with financial, equipment and on-site support from employees to help in the implementation of various programs and activities.

Challenges

Change in weather patterns

Delayed and very little rains were received this year. This is proof of the impacts of Climate Change. Heavy rains usually expected in April-July were late and short. The short rains in October-November came in December with much less intensity. This adversely affected the timing of planned activities such as mangrove restoration/planting, woodlot establishment, and the survival rate of planted seedlings.



Figure 16: A dried-out tree seedling.

A3 Project developments

The project constitution was amended to include by-laws and a few other additions i.e the Office of the Project coordinator, forest scouts and Ass. Project coordinator selection criteria and responsibilities, among others. The Project Constitution will be made available in various digital platforms as well as have distributed copies across the villages. Community members will further be engaged in barazas, and smaller group sittings to inform them of the constitution starting 2022.

The current committee (2020-2021) is set to hand over the MPCO office to the newly elected committee 2021-2022. Elections will take place in the respective villages on the 7th and 8th of January 2022.

A4 Future Developments

Energy Saving Jikos

To reduce exploitation pressure on the mangrove ecosystem, improve health and consequently reduce GHG emissions, Mikoko Pamoja intends to install low carbon/fuel-efficient cook stoves to households in Gazi and Makongeni. A feasibility assessment on the adoption of these stoves previously done proved a high level of acceptance and efficiency of the installations done. The stoves aim to use local manpower and materials, some of which are recycled, making them cost-effective and equivalently a good avenue to enhance creative skills within the villages.

Waste Management and Marine Plastic Pollution

Gazi and Makongeni villages have for the longest time lacked a proper waste management system. Solid waste is randomly disposed of and can be found scattered across the village. A dumpsite has also been created adjacent to the mangroves which negatively affects the health of the ecosystem. Additionally, a lot of plastic, rubber and glass waste from around the globe ends up on the local shores through wave action creating “marine dumpsites”. Mikoko Pamoja will facilitate the sensitization of proper waste management to the communities, identify best areas to dispose-off waste and incentivize these problems through recycling to promote the circular economy. This will also serve to create more awareness on marine plastic pollution as one of the global challenges to the ocean and related marine ecosystem in support of Global Agendas i.e. Ocean Decade 2021-2030.



Figure 17: Left: “marine dumpsite” formed from deposition by wave action. Right; Illegal dumpsite created on the edge of the shoreline in Gazi village.

Part B: Project activities

B1 Project activities generating Plan Vivo Certificates

Mikoko Pamoja has a single technical specification that covers three activity areas, involving avoided deforestation/forest recovery activities in areas 1 and 2 and planting activities in area 3. The responsibilities for and benefits from these activities are shared communally within the single project community organization.

Table B1: Project activity summary

Name of technical specification	Area (Ha)	No smallholder households	No Community Groups
Natural mixed forest (Activity area 1)	107	1081	1
Indigenous plantation (Activity area 2)	10	1081	1
Degraded beach site (Activity area 3)	0.4	1081	1

B2 Project activities in addition to those generating Plan Vivo Certificates

Publicity and awareness raising

Mikoko Pamoja presented most of its work on various virtual and in-person discussions e.g. Pangea Accelerator and StrathUnion. The project's efforts continue to gain international recognition in the intervention against climate change as represented in blue carbon panels during COP26. Avenues used by the project for publicity are social media platforms such as Facebook, twitter and Mikoko Pamoja related websites. The project was featured on CGTN TV, UN News among others as one of the successful blue carbon projects positively contributing to climate change, biodiversity conservation and improved livelihoods. The project has also been featured on local news (Annex 3.1).

Part C: Plan Vivo Certificate issuance submission

C1 Contractual statement

This issuance is based on signed PES agreements with participants complying with all the minimum requirements stated in these agreements.

C2 (b) Issuance request for projects where issuance is made on the basis of ongoing activities on land already managed by the project (e.g. avoided deforestation, calculated ex-post)

Table C1: Statement of tCO₂ reductions available for issuance as Plan Vivo Certificates based on activity for reporting period 01/2021 – 12/2021

Area ID	Total area (ha)	Tech. Spec	tCO ₂ available from previous periods	Total tCO ₂ achieved this period	% Buffer	No. of PVCs allocated to the buffer account	No. PVCs requested for issuance from saleable carbon	tCO ₂ available for future issuances
Project area 1	107	Mikoko Pamoja	0	2259	15	339	1920	0
Project area 2	10	Mikoko Pamoja	0	195	15	30	165	0
Project area 3	0.4	Mikoko Pamoja	0	0	15	0	0	0
TOTAL	117.4		0	2454		369	2043 ₁	0

¹this sum represents 98% of credits, after 15% buffer subtraction, given a 2% penalty for area 3 (since we failed to meet our threshold planting target).

Table C2: Allocation of issuance request for this reporting period

Buyer name/ Unsold Stock		No. PVCs transacted	Registry ID (if available)	Tech spec
Zero Mission		500	Not available - transfer	Mikoko Pamoja
Zero Mission		109	Not available - transfer	Mikoko Pamoja
Common Seas		7	PV-PVC-KE- 103000000008881- 01012020-31122020- 6943181-6943187-MER- O-P	Mikoko Pamoja
Yacht Carbon		300	Not available - transfer	Mikoko Pamoja
Yacht Carbon		985	Not available - transfer	Mikoko Pamoja
Madeiline Pott		8	PV-PVC-KE- 103000000008881- 01012020-31122020- 6943142-6943149- MER-O-P	Mikoko Pamoja
The Association of Surfing Professionals, LLC d/b/a World Surf League		100	PV-PVC-KE- 103000000008881- 01012020-31122020- 6943188-6943287- MER-O-P	Mikoko Pamoja
Ocean Bottle		31	PV PVC KE 103000000008881 01012020 31122020 6943150 6943180 MER O P	Mikoko Pamoja
Mark Boyd		3	PV-PVC-KE- 103000000000 8881- 01012020- 31122020- 6943288- 6943290- MER-O-P	Mikoko Pamoja

C3 Data to support issuance request

Please refer to Annex 1.

Part D: Sales of Plan Vivo Certificates

D1 Sales of Plan Vivo Certificates

All sales of Plan Vivo Certificates to date (including forward sold certificates for current issuance request) are presented in table D1.

Table D1: Sales of Plan Vivo Certificates

Vintage	Buyer	No of PVCs	Price per PVC (\$)*	Total sale amount (\$)*	Price to participants per PVC (\$)*	% Sale price received by participants
SALES OCTOBER 2013 – October 2014 (note change in reporting year)						
2014	Earthwatch	1000				68.3**
2014	Paolo Merlini	10				68.3**
SALES OCTOBER 2014 – DECEMBER 2015 (note change in reporting year)						
2014	Zero Mission	720				68.3**
2014	Algarve Students	34				68.3**
2014	Imperial College	2				68.3**
2014	Nico Koedam Research Group	38				68.3**
2014	Nico Koedam Family	10				68.3**
2014	Will Ashley-Cantello	10				68.3**
SALES 2016						
2014	Iain and Julia	10				68.3**
2014	Farid - Tropimundo	189				68.3**
2015	Edinburgh Napier University	660				68.3**
2014	Steve Crooks	30				68.3**
2015	ZeroMission	700				68.3**
2015	SCB Marine Section	1,200				68.3**
SALES 2017						
2017	Vrije Universiteit Brussel	100				68.3**
2016	Zero Mission	1369				68.3**
2016	Farid - Tropimundo	29				68.3**
2016	Farid - Tropimundo	20				68.3**
2016	Farid - Tropimundo	25				68.3**
2017	Farid - Tropimundo	190				68.3**

SALES 2018						
2017	Farid - Tropimundo	178				68.3**
2017	SCB delegate offsetting	1200				68.3**
2017	Zero Mission	224				68.3**
2017	Koedam family	11				68.3**
2017	CCF conference	9				68.3**
SALES 2019						
2018	Zero Mission	500				94.3
2018	C Level	25				94.3
2018	Charles and Kate Hussey	36				94.3
2018	Ruth Malleson	12				94.3
2018	Elfin Book NL	9				94.3
2018	Alison Baker	7				94.3
2018	Common Seas	18				94.3
2018	Arcadia Fund	851				94.3
2018	TROPIMUNDO	190				94.3
2018	Ruth Malleson	5				94.3
2018	GRID-Arendal	259				94.3
SALES 2020						
2019	C-Level	200				89.8
2019	Université Libre de Bruxelles	226				89.8
2019	Vrije Universiteit Brussel	32				89.8
2019	Vrije Universiteit Brussel	29				89.8
2019	Echo Shoppe	15				89.8
2019	Alison Baker	9				89.8
2019	Zero Mission	500				89.8
2019	Ocean Bottle	432				89.8
2019	SuperFlex	140				89.8
2019	Charlie's Travels	238				89.8
2019	MOYU	20				89.8
2019	Charles and Kate Hussey	30				89.8
2019	Common Seas	26				89.8

SALES 2021						
2019	Carbon Chameleon	100				81.8
2020	Zero Mission	500				81.8
2020	Zero Mission	109				81.8
2020	Common Seas	7				81.8
2020	Yacht Carbon	300				81.8
2020	Yacht Carbon	985				81.8
2020	Madeiline Pott	8				81.8
2020	The Association of Surfing Professionals, LLC d/b/a World Surf League	100				81.8
2020	Ocean Bottle	31				81.8
2020	Mark Boyd	3				81.8
TOTAL		12,920				88.9

*Pricing reported for internal monitoring purposes only. Pricing information will be removed from the final published document.

** Due to a change in the processes by which % share is reported, the % sale price received by participants for the sale of vintages 2014 – 2017 has been calculated as an average across those years

D2 Unsold stock available for sale

The total unsold stock of Plan Vivo Certificates per year of issuance as at reporting period end is presented in table D2.

Table D2: Unsold stock of Plan Vivo Certificates

Vintage	No of PVCs	Price to participants
2020	0	n/a

Part E: Monitoring results

E1 Ecosystem services monitoring

Monitoring results that support the request for new issuances are presented in Annex 1.



Figure 18: A member of MPCO committee participating in a forest monitoring exercise.

E2 Maintaining commitments

All participants maintained commitments this year.

E3 Socioeconomic monitoring

We undertook a major review of participation and benefit sharing in the project during October 2021, as part of a broader research project (conducted by Dr Anne Kairu). The work is being analysed and will be finished and published in 2022; it will inform project decisions on fairness in benefit sharing.

E4 Environmental and biodiversity monitoring

See Annex 1 for core monitoring results; additional faunal monitoring was not possible this year because of Covid restrictions on travel by students and researchers.

Part F: Impacts

F1 Evidence of outcomes

With adequate funds from the sale of PVCs, prioritization was done on projects in water, sanitation and youth empowerment.

Gazi Village



Figure 19: Constructed water tower and purchased water tank for Gazi community development projects. Among other things done was new piping, pipe repairs and the purchase of foot balls for the Wayzata football club.

Makongeni Village



Figure 20: Renovated classrooms (roofing) done in Makongeni Pry School in 2020. 2021's projects were the construction of village toilets, water tower as well as the purchase of a water tank and football materials.

Part G: Payments for Ecosystem Services

G1 Summary of PES by year

Table G1: Summary of payments made and held in trust

1. Reporting year (2015 – 2021)	2. Total payments received (USD)	3. Total payments made (USD)	4. Value retained by ACES* (USD)	5. Total payments held in trust (USD)
10/13 – 10/14	6,081	11,984		0
10/14 – 12/15	9,834	12,510		475**
1/16 – 12/16	29,574.21	14,833		13,787**
1/17 – 12/17	22,229	13,401		19,544**
1/18 – 12/18	18,216	5,963		32,779**
1/19 – 12/19	23,255	17,562	7,759***	7,063
1/20-12/20	23,063.63	20,662.10	3,937***	6,675.37
1/21 – 12/21	27,401	22,408.71	6,435.58***	4,064.05***
TOTAL	159,694	119,324	18,132	

* Includes operating costs for ACES, Plan Vivo issuance fees and funds ringfenced for verification. Column added in 2020 AR, hence no data pre-2020.

** The % sale price received by participants (table D1) and the 'total payments held in trust' column were reported incorrectly in years 2014-2018, resulting in an apparent accumulation of payments held in trust that did not reflect actual finances (the % sale price was reported as 100% when in fact averaged around 70%; this was an error). The 2019 year 'total payments held in trust' figure is now correct and subsequent years will account for overheads spending reducing the % sale price received by participants.

***Numbers do not exactly add up due to fluctuations in exchange rates between USD and GBP and year-to-year carryover

Before transfer to the Mikoko Pamoja Community Organization, funds are held by the charity The Association for Coastal Ecosystem Services (ACES).

Part H: Ongoing participation

H1 Recruitment

No new recruitments were made for the year 2021.

H2 Project Potential

Energy Saving Jikos

As part of its leakage mitigation strategy, MP intends to install low-carbon cook stoves in households within Gazi and Makongeni villages. This shall not only help to reduce pressure on the mangrove ecosystem, but also improve health, cut costs and address matters on gender disparity.

Waste Management and Marine Plastic Pollution

To create a healthy marine and human ecosystem and to enhance the circular economy, Mikoko Pamoja will sensitize its communities on proper waste management. It will also organize local youth to collect and recycle waste thereby contributing to livelihoods. This shall be done in partnership with different organizations with a similar mandate to MP.

H3 Community participation

Mikoko Pamoja supports two villages namely; Gazi and Makongeni. As defined in its annual work plan, the project should incorporate members from the supported communities in the implementation of the planned project activities. These activities include vegetation monitoring, nursery establishment, restoration, community project consultations, among others. An elected committee of 13 members from Gazi and Makongeni is also in-charge of overseeing the running of the project affairs in a timely, transparent and participatory manner.



Figure 21: Community members participating in mangrove restoration on the degraded beach site using the Riley encasement experiment.

Figure H3.1: Community participating in vegetation monitoring activity

The table below provides details on community engagement in different project activities

Activity	Men	Women	Total
community Baraza	xx	xx	xx
Environmental and biodiversity monitoring	14	17	31
Mangrove Planting	9	10	19
socio-economic monitoring	6	3	9
constitution amendment	13	10	23
AGM	39	32	71
Total			153

Mikoko Pamoja held several meetings during the 2020-2021 reporting year to plan for the annual activities including monitoring, planting and nursery establishment. Other agendas include project security, community projects to be implemented and change of bank account signatories (Annex 2).

Part I: Project operating costs

I1 Allocation of costs

All expenditure this year was met from PVC sales. The project income for the year 2020-2021 was GBP 18,805.17. With an average exchange rate of GBP1=KSH150.83 in 2021, the project earned a total revenue of KSH2,836,383.79.

GBP 4,463.33 funded community projects, with the rest facilitating salary payments and related project activities as detailed below:

Project Income (GBP)	Average exchange rate	Expenditure	GBP	KSH
18,805.17	150.83	Community project funds	4463.33	673,204.04
		Salary payments	6,364.78	960,000.00
		Office expenses and other project related activities (forest monitoring, woodlot establishment, restoration, meetings, workshops, covid-19 support, etc.)	3119.8	470,559

In Gazi village, the 16% allocation for community development projects per village, in the year 2020 was unused. This amount was carried forward to 2021 giving a total of KSH673,204 as community development funds. Makongeni village, having prioritized on the local school's renovation of two classrooms, utilized KSH176,000 of 2020's allocated funds. Therefore, the project received a total of KSH485,919.53 as community development funds for the year 2021.

Annexes

Annex 1: Monitoring results for issuance request

Mikoko Pamoja operates on three main project areas. Areas 1 and 2 deliver PVCs through avoided deforestation and forest conservation activities. Area 3 involves planting trees in degraded beach sites that used to support mangrove forests. 98% of the PVCs are generated through activities in Areas 1 and 2.

Monitoring targets (of basal area occupied by cut stumps and of stocking rates indicating forest recovery) have been met in these areas. Monitoring targets in area 3 were missed; as well as the threshold for 50% of PVC (>2000 trees planted) was not met. Hence total PVCs earned this year are 98%.

Annex 1.1: Forest protection and surveillance (Areas 1 and 2)

Having successfully recruited forest scouts, Mikoko Pamoja has also improved the frequency of forest monitoring to three times a year with much involvement of the locals. This is in an effort to increase the annual activities in the project areas with an aim of discouraging illegal harvesting. With apparent drop in the stocking rates, there was no indication of illegal harvesting in the project areas. Most of the stumps encountered during the monitoring exercise were old with no occurrence of recent ones. In general, the forest attributes are significantly higher than the baseline and MPCO has not experienced any illegal harvesting in its project area during the reporting period therefore the forest condition can be said to be recovering.

Activity area	Forest attribute	Quantity/ha	Measure last year	Baseline	Remarks
1	AGB (t dw)	234.9	198.6	118.8 (2012)	There is a continuing increase in AGB and a drop in stump counts.
	Natural regeneration (# juveniles \pm SD)	10250 \pm 7296	7740 \pm 580		
	Stump count Per ha	620	890	2720 (2013)	
2	Stocking density	2720 \pm 414	2760 \pm 391		Little change in stocking density suggesting natural thinning is leveling off. Stumps similar to last year *
	Natural regeneration	2660 \pm 934	5160 \pm 6249		
	Mean stump density	140 \pm 313	280 \pm 268		

*data for activity area 2, the 10 ha plantation, was based on 5 plots; these are randomly chosen each year so show higher levels of variation than permanent plots in area 1.

Annex 1.2: Tree planting (Area 3)

MPCO is committed to plant 4,000 mangrove seedlings per annum for the 20 years contracting period. During the reporting period, 714 seedlings of *Sonneratia alba* were planted (Table Annex 1.2). Since the objective of rehabilitation was for coastal protection, all planting was carried at a spacing of 1 m by 1m.

Table Annex 1.2: Planted seedling in activity area 3

Date	Species planted	Number planted	Survival rate %
12/05/21	<i>Sonneratia alba</i>	714	40

Annex 2: Community meeting records

Please find the community meeting records below.

MINUTES OF AN EXECUTIVE COMMITTEE MEETING HELD ON 23/04/2021 AT 2.29P.M., AT THE KMFRI GAZI STATION.

Members Present

1. Abdillahi Changu – Chairperson
2. Dala Enea – Vice Chairperson
3. Rahma Rashid – Project Coordinator
4. Muhammad Bomani – Treasurer
5. Mwanakombo Chirenje
6. Hamadi Salim

Agenda

1. Community development projects.
2. Community barazas.
3. Restoration activity
4. Nursery establishment.
5. Woodlot establishment.
6. Monitoring.
7. Bank withdrawal.
8. Finances.
9. Benson's volunteering.
10. MP Branding.

Preamble

The meeting started at 2:28 P.M. with a word of prayer from Hamadi Salim.

MIN 1/23/04/2021: Community development projects.

It was agreed that the Makongeni Village Chairperson look over the remainder of the Makongeni Pry School project with one of the school BOM members. Mohammed Ali, a mason from Makongeni, was hired for the job. The school renovation was set to be done by end of April.

The Gazi windmill project was set to proceed as phase one with the purchasing of the non-pump assemblies. Ksh 52,000 was assigned to cover all costs with Ksh 5,000 designated for the transportation costs. This was to be obtained from the total Ksh170, 000 set aside for the project. Phase two of the project would come after materials were found available and enough funds were available from the 2020 generated carbon funds.

MIN 2/23/04/2021: Community barazas.

2021 had not held any public barazas for the two villages to initiate discussions on the year's to be proposed projects. This was mainly because the previous year projects were not complete. It was stated that once both projects from Gazi and Makongeni were done, planning for the barazas would begin.

The set timeline for this was July. To assist with the attendance by the community members, the village chair would appoint representatives from several locations in the village that would serve to make personal invitations to project meetings therefore ensuring that every villager is informed.

MIN 3/23/04/2021: Restoration.

MP's restoration activity was set for the 29/04/2021. This was different from the previously set date as it was advised, with input from KMFRI, which the tide levels would best allow for the activity to happen then. Ksh 33,000 was set aside for this activity where Ksh3, 000 would cater for seedling transportation costs, and the rest would cover allowances for the day. Participants involved members of the two communities from Gazi and Makongeni, KMFRI and volunteers from Home Street Home, a social rescue and training center from Makongeni. Nursery establishment activity would then follow once the conditions of the soil at the site were most favorable

MIN 4/23/04/2021: Woodlot establishment.

The Chairperson confirmed that the Makongeni Pry School had offered to give some plot of land to MP to establish a woodlot as part of their leakage mitigation strategy. Ms. Rahma mentioned that an MOU existed between the school and MP that allowed for past implementation of the same venture. However, this needed to be renewed as it had expired. Any amendments to this can be made in both parties presence once the school project was done.

MIN 5/23/04/2021: Monitoring

Following the forest monitoring activity conducted on 15/16th/04/2021, some errors were observed in the data collected i.e. reduction in number of trees covered, some tree species not registered, and lack of specification on the tree species for regeneration. This called for a re-doing of the activity for five of the plots, i.e. plot 6, 7,8,9,1, done on the 26th and 27th/04/2021. Ksh 5,000 was designated for this.

MIN 6/23/04/2021: Bank withdrawal

A total of Ksh159,200 was to be withdrawn on 27/04/2021 to facilitate all mentioned activities as follows:

- Restoration – 33,000
- Monitoring re-done – 5,000
- Scouts salaries – 30,000
- Gazi project – 52,000
- Monitoring allowance balance (KFS) – 3,000
- Bank transport – 3,000
- Meeting allowance – 4,200
- Make-shift saddle – 1,000
- 1,000

MIN 7/23/04/2021: Finances.

Ms. Rahma informed that about Ksh950,000 was sent into the MP account from ACES. Use of tis funds was to be as per allocation in the benefit sharing structure. More funds were expected to come in estimating to a total of Ksh 3,000,000. She emphasized that this is always subject to how the carbon

market rates are. Much explaining on how previous funds were managed would be done in the next committee meeting by DR. Caroline and Lang'at as promised in the trustee meeting recently held.

MIN 8/23/04/2021: Benson's volunteering.

As explained by the PC, an individual called Benson had reached out to the project in 2020 seeking placement as a volunteer. He had then moved to Gazi in 2021 to start his service. The committee, however, agreed that he was not fit for the position based on his geographical status. The PC advised that such opportunities are open to everyone as it opens a symbiotic relationship where both parties benefit from each other, and since no member from the communities had so far expressed interest, slots were open for others to come in. The committee members however, agreed that only members from the community should be given priority for such opportunities.

MIN 9/23/04/2021: MP Branding.

Mr. Bomani was of the opinion that, to help address the issue of the community members not responding to meetings and to help eradicate any negative attitudes present for the project, much effort in awareness and outreach needed to be done. To start off, it being the month of Ramadhan, MP would donate food to the neediest families. Among those to be captured in this program would be the elderly, disabled, widows and widowers. An estimated amount of Ksh200,000 was mentioned. It was requested that the PC inquire from ACES on how this can be facilitated.

MIN 10/23/04/2021: A.O.B.

There being no other agenda, the meeting was closed at 4.10P.M. with a word of prayer from the chairperson.

Minutes compiled by:



Rahma Kivugo

Project Coordinator

Minutes approved by:



Abdillahi Changu

Chairperson

MINUTES OF A COMMITTEE MEETING HELD ON 30/03/2021 AT THE GAZI WOMEN BOARDWALK FACILITY STARTING 10.00A.M.

Members Present

1. Rahma Rashid – Project Coordinator
2. Mohammad Bomani - Treasurer
3. Salim Hamadi
4. Omar Hamadi
5. Changare John
6. Khadija Bakari
7. Fatuma Mashobo
8. Mwanakombo Chirenje
9. Bakari Mwaropia
10. Hamisi Mwarandani – Makongeni village head (Ex-official)
11. Iddi Bomani – Gazi Village head
12. Saumu Ali
13. Biasha Gambere
14. Abdillahi Changu - Chairperson

Members Absent

1. Yahya Makoha

Agenda

1. First quarter activity and financial report
2. Community projects
3. Planting/Nursery establishment
4. Trustee meeting
5. Woodlot establishment
6. Monitoring
7. Change in mode of payment
8. A.O.B.

Preamble

The meeting began at 10.14 a.m. with a word of prayer from Omar Hamadi.

MIN 1/30/3/2021: First quarter reporting.

As outlined at the beginning of the year, community barazas were the main activity in MP's first quarter activity calendar. However, this had not been possible due to the incomplete nature of 2020's proposed community development projects. It was important that this was soon established. The PC emphasized that both projects should be finished by end of April to allow for community consultation on this year's project as well as to give room for other matters to take course. Ksh 6,000 was agreed to be withdrawn from the bank to add on to another Ksh 6,000 held in possession by the chairperson as balance from the initial Ksh 170,000 assigned to Makongeni village. To ensure equal distribution of

finances for both villages, Ksh 6,000 would also be withdrawn to add to the Gazi project allocation bringing a total amount of Ksh170, 000 after Ksh 6,000 had been used to start off the project as labor charges.

Ms. Rahma also reported that carbon funds were soon to be received from ACES to facilitate this year's activities.

MIN 2/30/03/2021: Community Projects.

Ksh 6,000 was agreed to be withdrawn from the bank to add on to another Ksh 6,000 held in possession by the chairperson as balance from the initial Ksh 170,000 assigned to Makongeni village. To ensure equal distribution of finances for both villages, Ksh 6,000 would also be withdrawn to add to the Gazi project allocation bringing a total amount of Ksh170, 000 after Ksh 6,000 had been used to start off the project as labor charges.

MIN 3/30/03/2021: Planting/Restoration and Nursery Establishment.

The planting date was set for 24/04/2021 after a site assessment to be done by the PC and Hamisi, KMFRI's lab technician. Seedlings would be obtained from the nursery. Ms. Rahma advised that the nursery establishment activity will follow after restoration once the site's physical conditions are deemed fit. 30 participants were to be sourced from the two supported villages and KMFRI.

MIN 4/30/03/2021: Trustee meeting.

A meeting with the trustees deemed essential for the project's progress would be held on 08/04/2021 to discuss on successful ways of governing MP as a project. This meeting was also intended to clear/resolve any underlying issues/concerns amongst members. The activity was to be facilitated by the generated carbon funds.

MIN 5/30/03/2021: Woodlot establishment

As part of the leakage mitigation plan for MP, woodlots were to be established in each of the villages to provide an alternative source of timber and firewood. Ms. Rahma asked for proposals on where to put up the woodlots within or outside the villages. Plots in Fihoni, a neighboring village, were suggested and the two village chairpersons assigned to follow up on it. A committee member, Mr. Kindururu offered to lease his land in Makongeni and another proposal was made to renew the agreement previously done with Makongeni Pry. The chairperson was asked to follow up on this and report back to the PC.

MIN 6/30/03/2021: Monitoring

It was scheduled that the forest monitoring activity would take place on 10/04/2021. A total of 12 individuals from the two villages would participate. These included the PC, surveillance team, committee members as well as other community members.

To ensure that more people had the skills and know-how of how carbon accounting is done and to create an understanding of the importance of MP's operations, new members were always selected to participate. Suggested members from the communities were as follows;

- Amana - Gazi
- Tamim - Gazi

- Kassim Lomba - Makongeni
- Bibiana – Makongeni

Abdillahi Changu, Dala Enea and Biasha Gambere were selected as part of the monitoring team from the committee.

MIN 7/30//2021: Change in mode of payment for the PC.

Ms. Rahma informed that there were some changes in the manner to which salaries would be administered. Discussions had been had with ACES on the convenience in the means of payment used. Direct payment by MPESA was a better option as it was less costly. A letter from ACES explaining the same in detail was read out by the PC. All members agreed to the changes starting end of March 2021.

MIN 8/30/03/2021: A.O.B.

Inquiries were made on the progress of a trip initially planned by the committee to KASGAU. The PC advised that it would be best to proceed with it once everything i.e. community projects were accomplished.

Minutes recorded by;



Rahma Kivugo

Project coordinator

Minutes approved by;



Abdillahi Changu

Chairperson

Annex 3.1: Media

1.



2.

<https://www.ima.gov.tt/2021/06/21/there-is-no-place-like-a-mangrove-forest/-institute> of marine affairs
<https://oceanbottle.co/blogs/news/a-deep-dive-into-life-at-the-world-s-first-two-blue-carbon-projects-ocean> bottle
<https://www.youtube.com/watch?v=i98cIlkaP7g> - by Earth Optimism
https://www.youtube.com/watch?v=XExn1ddl1_0&t=12s – CGTN Africa
<https://youtu.be/HclSowcHwCO> - UN news
<https://youtu.be/HclSowcHwCO> - COP26 Commonwealth Pavillion
<https://youtu.be/NVmE47UDNJQ> - StrathUnion
https://youtu.be/_qa0wJGF5-s – Finisterre Ocean Mic

3. **Project receipts** – provided to Plan Vivo