



# 2020 Plan Vivo Annual Report

## Mikoko Pamoja

Submitted by the Mikoko Pamoja Community Organization  
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2020



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## Acronyms

ABSA	Amalgamated Banks of South Africa
ACES	Association for Coastal Ecosystem Services
KFS	Kenya Forest Service
KMFRI	Kenya Marine & Fisheries Research Institute
MPCO	Mikoko Pamoja Community Organization
PDD	Project Design Document
PVC	Plan Vivo Certificates
UNEP	United Nations Environment Program
KEFRI	Kenya Forest Research Institute
VBF	Vanga Blue Forest
BMU	Beach Management Unit

## 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<sub>2</sub>e) 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 <sup>st</sup> January 2020– 31 <sup>st</sup> December 2020
Geographical areas	Gazi Bay mangrove forest
Technical specifications in use	Mikoko Pamoja

	Historical (2014-2019)	Added/Issued this period (2020)	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	0	700
Area under management (ha) where PES agreements are in Place	117.4ha	0	117.4ha
Total PES payments made to participants (USD)	\$76,253	\$20,662.10	\$96,915.10
Total sum held in trust for future PES payments (USD)	\$6,675.37*		
Allocation to Plan Vivo buffer (tCO2)	2,114	369	2,483
Saleable emissions reductions achieved (tCO2)	11,923	2,043	13,966
Unsold Stock at time of Submission (PVC)	141		
Total Unsold Stock (PVC)	0	141	141
Plan Vivo Certificates (PVCs) issued to date		11,923	
Plan Vivo Certificates requested for issuance (2020 Vintage)		2,043	
Plan Vivo Certificates available for future issuance (REDD only)		0	
Total PVCs issued (including this report)		13,966	

\*Some of this money will be used to pay for ACES overheads, and set aside for future verifications. The remainder will be paid to the community.

## Part A: Project updates

### A1 Key events

#### 29<sup>th</sup> May 2020

Mikoko Pamoja and VBF (Vanga Blue Forest) merged efforts to support 148 households from Gazi, Makongeni, Vanga, Kiwego and Jimbo villages respectively, with food and sanitary provisions. Ksh 240,000 was donated by the two projects with facilitation from Association of Coastal Ecosystem Services (ACES) in a bid to cushion the arisen socio-economic impacts from the COVID-19 pandemic that was then majorly affecting the region and the country at large. Several basic food items, sanitary materials e.g. soaps and masks were provided. Door to door deliveries were

done for the Gazi bay region and a small event was held in Vanga to officiate the effort. The event was graced with the presence of officials from KMFRI (Kenya Marine & Fisheries Research Institute), Mikoko Pamoja, VBF and community members from the various villages. Much awareness was made on preventive measures against COVID-19.



#### **7<sup>th</sup> July 2020**

KMFRI and Mikoko Pamoja hosted visitors in a follow up exercise that sought to identify cultural heritage sites and/or potentials in Gazi. This was in order to facilitate a more comprehensive project toward cultural resource management related to the historical and cultural materials associated with Gazi and the immediate environs. These efforts were meant to aid in developing a broader framework and quorum for enhancing the Gazi area as a proof-of-concept initiative to replicate to enhance cultural tourism in the Diani, Gazi, and Msambweni regions. This will in turn serve as a related income generating activity for the Gazi Bay community and further help to reduce exploitation pressure on the mangrove ecosystem.

#### **19<sup>th</sup> September 2020**

A reconnaissance study was conducted in Gazi Bay to identify potential sites for the conservation of seagrass ecosystems. The activity was carried out by representatives from the United Nations Environment Project (UNEP), KMFRI, Mikoko Pamoja and the Beach Management Unit (BMU). Two potential sites were identified measuring 140ha (site 1) and 70ha (site 2). The areas were chosen based on their accessibility for monitoring, threat potentiality to ecosystem and willingness by users. Efforts to officially mark the sites are underway. The sea grass conservation venture seeks to contribute to the efforts of the mangrove carbon offset scheme carried out by Mikoko Pamoja.



#### 4<sup>th</sup> and 30<sup>th</sup> November 2020

Mikoko Pamoja, Base Titanium Ltd. and KMFRI held a tree planting activity around the village of Gazi. 29 fruit trees of different species were planted around selected households and routes within the village as a pilot case for future similar programs. With assistance from the village chairperson, local youth were engaged in the activity. Sensitization on the importance of trees was made with strong emphasis on sustainable tree harvesting for conservation.



*Figure 3: Mikoko Pamoja's project coordinator, Ms. Rahma Rashid (left) and Mr. Geoffrey (right) from Base Titanium Ltd. planting a tree. Photo credits: Rahma Rashid*

### 14<sup>th</sup> November 2020

The Gazi mangrove boardwalk reopened after several months of closure that saw through its renovation into a more sustainable venture. The event marked the completion of phase 1 of the renovation intended for the 500m walkway. 200m of wooden boards from mangroves and other hardwood trees have so far been replaced using 3tonnes of plastic waste manufactured by Ecopost Ltd. The event was launched by the Director, Kenya Forestry Research Institute (KEFRI), Dr. Joseph Cheboi. Present during the launch were Gazi Bay community members, Base Titanium Ltd., and other project partners who include Amalgamated Banks of South Africa (ABSA, KMFRI and Mikoko Pamoja. The project is committed to conserving the surrounding mangrove ecosystem, empowering women and generating income to the locals from ecotourism activities.



Figure 4: Left: Dr. James Kairo (KMFRI Chief Scientist) addressing the invitees. Right: Dr. Joseph Cheboi (KEFRI Director, officially marking the launch. Photo credits: Rahma Rashid Kivugo and Anonymous.

## A2 Successes and challenges

### Successes

**Revenue:** Sales of carbon credits this year have earned USD 22,999.63 for Mikoko Pamoja. This revenue has benefited the local community (further information in Annex 2).

### Challenges

**Project work plan:** The COVID-19 pandemic disrupted the project work plan as regulations and consequent restrictions were made on gatherings, alternative work spaces and travelling. Activities such as community barazas during community consultations were substituted with the use of questionnaires to collect data needed. This was a much slower process and required more resources to facilitate. However, Mikoko Pamoja successfully conducted the consultations and obtained good results for implementation.

**Restoration:** The annual nursery establishment activity was conducted at a much later date than earlier planned due to the onset of COVID-19. This consequently resulted in the postponement of the restoration activity originally planned for November 2020 to April/May 2021 as the seedlings were observed to be immature for any physical disturbance. From this, Mikoko Pamoja has failed to meet the threshold of <2000 seedlings and hope to recover in 2021.

**The Project Coordinator**, Ms. Rahma Rashid, was not able to report to office in time due to the cessation of movement declared upon the Coastal counties. Much of the activities planned were delayed as a result. However, we are proud of how much positive progress she has impacted on the project.

**Monitoring:** Monitoring activities for the year 2020 were done twice instead of three times in a year. This is because of the lack of GPS equipment needed for the identification of plots. For years now, Mikoko Pamoja has been collaborating with the Kenya Marine and Fisheries Institute (KMFRI) for technical expertise as well as resources i.e. GPS equipment. Inconveniences arose when the equipment could not be accessed due to its unavailability. Mikoko Pamoja is currently making plans to have its own equipment to avoid future inconveniences/delays.

## A3 Project developments

The PDD was modified, following the five-year verification and work to incorporate seagrass carbon as additional (non-credit bearing) ecosystem service, as described in A4. So, the main changes were to include seagrass in our activities and to change the penalty incurred for failure to meet our planting targets. Over the past 4 years we have not managed to achieve 4000 seedlings as anticipated in our original PDD. Our monitoring protocol stipulated that this would incur a 10% loss in credits issued, even though the technical specification showed that only ~ 1.3% of our total carbon benefits were lost; hence we were suffering a disproportionate penalty. We have submitted a correction to this and hope to be judged by Plan Vivo against this new standard for our 2020 issuances. The planting target has also been revised down to 2000 seedlings to reflect a more realistic target for the project.

## A4 Future Developments

### Incorporation of sea grass into Mikoko Pamoja

Efforts directed at up scaling Mikoko Pamoja to include seagrass conservation are underway, following five years of scientific research on the scale and vulnerability of seagrass carbon stocks in Gazi Bay. Initial plans had been made to officially launch the seagrass conservation project in March 2020, but unfortunately, the onset of the COVID-19 pandemic put a halt to progress made. The project had then engaged the local stakeholders in consultative meetings to appraise them on the incorporation of seagrass conservation to the Mikoko Pamoja project. Baseline mapping of potential conservation sites has thus far been done where the activity was conducted in 19<sup>th</sup> September 2020 by officials from UNEP (the funding organization), KMFRI, Mikoko Pamoja and the local BMU. Further consultations are essential with the community on functionality, benefits and limitations of the program. This should begin early 2021.

**Project Coordinator:** With Josphat Mwamba having left to pursue his masters studies, a new project coordinator was recruited in March following an interview session that was conducted late February 2020. The Project Coordinator, Ms. Rahma Rashid Kivugo is a graduate from Egerton University with a Bachelor's degree in Natural Resources Management.

**Assistant Project Coordinator:** Mr. Uthman Sadik, who was appointed by the committee to serve as the Assistant Project Coordinator late 2019, resigned from his position to pursue other fields. We are grateful for his contributions to Mikoko Pamoja over the past years. Further reviews about the vacancy will be made in 2021.

## 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	700	1
Indigenous plantation (Activity area 2)	10	700	1
Degraded beach site (Activity area 3)	0.4	700	1

### B2 Project activities in addition to those generating Plan Vivo Certificates

#### Publicity and awareness raising

With the associated COVID-19 traveling and gathering restrictions, Mikoko Pamoja presented most of its work on various digital platforms e.g. PANORAMA. The project's efforts were also acknowledged by the President of the Republic of Kenya, Uhuru Kenyatta, in the intervention against climate change during the virtual launch of the African Chapter of the Global Centre on Adaptation at State House as one among the pilot adaptation initiatives to be scaled up in Africa. Other avenues used by the project for publicity are social media platforms such as Facebook, twitter and Mikoko Pamoja related websites. The project is to be featured on CGTN TV early next year as one of the successful blue carbon projects positively contributing to climate change, biodiversity conservation and improved livelihoods. The project has also been featured in 1 local newspaper (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 tCO<sub>2</sub> reductions available for issuance as Plan Vivo Certificates based on activity for reporting period 01/2020– 12/2020**

Area ID	Total area (ha)	Tech. Spec	tCO <sub>2</sub> available from previous periods	Total tCO <sub>2</sub> Achieved this period	% Buffer	No. of PVCs allocated to the buffer account	No. PVCs requested for issuance from saleable carbon	tCO <sub>2</sub> 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 <sup>1</sup>	0

<sup>1</sup>This 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
C-Level	200	NA - TRANSFER	Mikoko Pamoja
Université Libre de Bruxelles	226	PV-PVC-KE-10300000008881-01012019-31122019-5608547-5608772-MER-0-P	Mikoko Pamoja
Vrije Universiteit Brussel	32	PV-PVC-KE-10300000008881-01012019-31122019-5609302-5609333-MER-0-P	Mikoko Pamoja
Vrije Universiteit Brussel	29	PV-PVC-KE-10300000008881-01012019-31122019-5609273-5609301-MER-0-P	Mikoko Pamoja
Echo Shoppe	15	PV-PVC-KE-10300000008881-01012019-31122019-5609364-5609378-MER-0-P	Mikoko Pamoja
Alison Baker	9	PV-PVC-KE-10300000008881-01012019-31122019-5608300-5608308-MER-0-P	Mikoko Pamoja
Zero Mission	500	NA - TRANSFER	Mikoko Pamoja
Ocean Bottle	432	PV-PVC-KE-10300000008881-01012019-31122019-5609405-5609836-MER-0-P	Mikoko Pamoja
SuperFlex	140	PV-PVC-KE-10300000008881-01012019-31122019-5609842-5609981-MER-0-P	Mikoko Pamoja
Charlie's Travels	238	PV-PVC-KE-10300000008881-01012019-31122019-5608309-5608546-MER-0-P	Mikoko Pamoja
MOYU	20	PV-PVC-KE-10300000008881-01012019-31122019-5608080-5608099-MER-0-P	Mikoko Pamoja
Charles and Kate Hussey	30	PV-PVC-KE-10300000008881-01012019-31122019-5609334-5609363-MER-0-P	Mikoko Pamoja
Common Seas	26	PV-PVC-KE-10300000008881-01012019-31122019-5609379-5609404-MER-0-P	Mikoko Pamoja

James Hagan	5	PV-PVC-KE-103000000008881-01012019-31122019-5609837-5609841-MER-0-P	Mikoko Pamoja
Unsold stock	141	NA	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	co 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	CB Marine Section	1,200				68.3**
SALES 2017						
2017	e 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	CB delegate offsetting	1200				68.3**
2017	Zero Mission	224				68.3**
2017	Koedam family	11				68.3**
2017	CCF conference	9				68.3**
<b>SALES 2019</b>						
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
<b>SALES 2020</b>						
2019	C-Level	200				89.84
2019	Université Libre de Bruxelles	226				89.84
2019	Vrije Universiteit Brussel	32				89.84
2019	Vrije Universiteit Brussel	29				89.84
2019	Echo Shoppe	15				89.84
2019	Alison Baker	9				89.84
2019	Zero Mission	500				89.84
2019	Ocean Bottle	432				89.84
2019	SuperFlex	140				89.84
2019	Charlie's Travels	238				89.84
2019	MOYU	20				89.84
2019	Charles and Kate Hussey	30				89.84
2019	Common Seas	26				89.84
2019	James Hagan	5				89.84
<b>TOTAL</b>		<b>11,782</b>				<b>MEAN 80.09</b>

\*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
2019	141*	n/a

\* These credits have been informally committed and paid for; retirement is pending buyers' Markit account being set up

## **Part E: Monitoring results**

### **E1: Ecosystem services monitoring**

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

### **E2: Maintaining commitments**

No participants resigned from the project this year.

### **E3: Socioeconomic monitoring**

No socioeconomic monitoring took place in 2020 due to Covid and the staff member responsible for social impact being on maternity leave in 2020. Future socio-economic monitoring will be structured around internationally-recognised framework such as SDGs.

### **E4: Environmental and biodiversity monitoring**

See Annex 1 for monitoring results. We were able to record the key monitoring indicators this year, despite severe restrictions imposed by the Covid-19 pandemic. However additional monitoring, for example for fauna, was not possible this year.

## **Part F: Impacts**

### **F1: Evidence of outcomes**

Through proper village engagement and consultation Gazi village prioritized the reactivation of the windmill situated within the village. This would contribute to green energy production and consequently increase access to affordable water supply. Makongeni village prioritized the renovation of the Makongeni Primary School Classroom and library. This would provide better learning facilities for the pupils while further improving the quality of education.



Figure 4:

Left: A contractor working on the windmill in Gazi Village. Right: A collapsed pump cylinder after extraction from the well.  
Photo credits; Rahma Rashid Kivugo

## 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 – 2020)	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	7759***	7,063
1/20-12/20	23,063.63	20,662.10	3,937	6,675.37
<b>TOTAL</b>	<b>132,252.84</b>	<b>96,915.10</b>	<b>11,696</b>	

\* 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 participant.

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

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

Ms. Rahma Rashid Kivugo replaced Mr. Josphat Mwamba as the new Project Coordinator starting March 2020.

### H2: Project Potential

**Incorporating Seagrass Conservation into Vanga Blue Forest (VBF):** There have been plans to incorporate the conservation of seagrass into Vanga Blue Forest (VBF project is a partner project of Mikoko Pamoja, located further South on the Kenyan Coast). Community and stakeholder engagements began with the first official meeting to be held in 7<sup>th</sup> – 9<sup>th</sup> of December 2020. Sea grasses are known for their crucial ecological as well as economic benefits such as, protection of the shoreline, carbon sequestration, fish habitat, among others.

### H3: Community participation



Figure 6: Community participating in vegetation monitoring activity. Photo credits; Rahma Rashid Kivugo

Mikoko Pamoja held several meetings during the 2019-2020 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. Data on the expenditure breakdown is provided in Annex 4.

2019 expenditure was not reported in the 2019 annual report due to COVID-related challenges in accessing the financial records. As agreed, 2019 expenditure has been included in this annual report in Annex 4.

## **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 (for basal area occupied by cut stumps and of stocking rates indicating forest recovery) have been met in areas 1 and 2; there was no evidence for major illegal cutting or incursions and a general decline in stump count. There is evidence that area 1 is approaching an asymptote in AGB, as eventually expected in a recovering forest, however the evidence is provisional given the limited number of monitoring data sets we were able to collect this year. Monitoring targets in area 3 were missed; we were unable to organize nurseries and planting activities this year. This reflected the continuing difficulties in planting, as reported in the previous three annual reports, caused by shifting fruiting periods and sedimentation regimes in the forest and planting areas. However in contrast to previous years we were unable to plant any trees this year due to Covid-19. Hence total PVCs earned this year are 98%.

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

Most stumps registered during the monitoring exercise were old with little to no appearance of new stumps and total counts declining in area 1 as expected following an exponential pattern. In general, MPCO has not experienced any serious illegal harvesting in its project area during the reporting period therefore the forest condition can be said to be recovering. The AGB measure this year is similar to last for area 1. NB Due to the Covid-19 outbreak only one set of monitoring data could be collected in 2020. Monitoring data are usually averages of 2 or 3 data sets; hence data this year may be less reliable than normal.

Activity area	Forest attribute	Quantity/ ha	Measure last year	Baseline	Remarks	Monitoring target met? (Y/N)
1	AGB (t dw)	198.6	200.1	118.8 (2012)	We continue to record a drop in stump counts, consistent with an exponential decay of the baseline. a decline in juveniles is expected as canopy closes. AGB is approximately the same as last year. This may suggest an asymptote in growth, or could result from less precision this year.	Y
	Natural regeneration (# juvenile s ± SD)	7740 ± 580	11960 ± 6470			Y
	Stump count Per ha	890	970	2720 (2013)		Y
2	Stocking density	2760 ± 391	2880 ± 466		There is continuing further natural thinning and natural recruitment into the plantation. Stump counts are similar to last year (no significant increase).*	Y
	Natural regeneration	5160 ± 6249	3043±10 88.24			Y
	Mean stump density	280 ± 268 s	200 ± 450			Y

\*data for activity area 2, the 10 ha plantation, was based on 5 plots.

## Annex 1.2: Tree planting (Area 3)

MPCO is committed to plant 2,000 mangrove seedlings per annum for the 20 years contracting period. During the reporting period, 0 seedlings of *Sonneratia alba* were planted. This is due to the delay in the period of establishment in the nursery which affected maturity of seedlings for planting in November. Planting has been scheduled for April/May 2021. Frequent monitoring and replacement of gaps in the nursery bed will be taking place as the seedlings await maturity.

## **Annex 2. Community meeting records**

Please find the community meeting records below.

### **MINUTES OF A COMMITTEE MEETING HELD ON 4/11/2020, 10.00AM, AT THE BOARDWALK FACILITY.**

#### **Members Present**

1. Rahma Rashid – Project Coordinator
2. Dala Enea – Ass. Chairperson
3. Mwanakombo Chirenje – Secretary
4. Salim Hamadi – Ass. Secretary
5. Mohammad Bomani – Treasurer
6. Bakari Mwaropia
7. Omar Hamadi
8. Saumu Ali
9. Changare John
10. Fatuma Mashobo
11. Khadija Bakari
12. Hamisi Matano – Village Chairperson

#### **Members Absent**

1. Abdillahi Changu – Chairperson
2. Yahaya Said
3. Iddi Bomani – Village Chairperson

#### **Agenda**

1. Assistant Project Coordinator position.
2. Monitoring activity
3. Community project implementation.
4. Restoration activity.
5. Project progress
6. A.O.B.

#### **Preamble.**

The meeting commenced at 10.30 a.m. with a word of prayer from Salim Hamadi. The PC then took over with a briefing of the previous minutes which were confirmed by Mr. Hamisi Matano to be true.

#### **MIN 1/04/11/2020: Assistant Project Coordinator position.**

Ms. Rahma explained that her assistant, Mr. Uthman, had absconded duty since the 31/10/2020 with no official communication. This was contrary to what was agreed by members of the executive committee meeting held on the 31/10/2020 that Mr. Uthman was to start reporting to duty then. He had also failed to undertake all duties assigned to him and despite several attempts made to reach out to him, he had responded to none. The committee decided that his employment with MP be terminated with condition

that all properties assigned to him by the project should be soon returned. Mr. Abdillahi Changu was appointed to follow up on the return of the items.

#### **MIN 2/04/11/2020: Monitoring Activity.**

The PC informed of an upcoming monitoring activity scheduled to take place on the 13&14/11/2020. She identified 9 committee members to join the group of 21 individuals comprising of 6 community members, 2 scouts, 1 coordinator, 3 KMFRI officials and 9 the committee members. She further mentioned the use of sprays to mark plots visited and stumps identified. Much emphasis was put on keenness for quality output while conducting the activity.

#### **MIN 3/04/11/2020: Community Project Implementation.**

It was decided that Ksh340, 000 be allocated for the implementation of community projects which indicated that Ksh170, 000 was to go to each village supported by MP. Implementation was to begin immediately with output delivered before end of November. The sub-committee in-charge was to see this through.

#### **MIN 4/04/11/2020: Restoration Activity.**

The PC informed that this year's restoration activity was likely not to happen. This was because the nursery seedlings were still immature and any physical disturbance would result to their possible loss. However, she mentioned that Josphat Nguu, a KMFRI student, who had earlier proposed on an alternative method of restoring seedlings earlier that year, was proposing on carrying out his experiment using a few seedlings from the nursery. He had requested MP to handle payments for all participant allowances and that he was to incur material cost. This was not approved by the committee with Mr. Bomani stating that he was to handle all expenses as per his grant. Where MP was needed to assist, only a fraction of the participant allowances would be administered by the group. The committee unanimously agreed to this with Ms. Rahma promising to deliver the message to Mr. Josphat.

However, replacement of available gaps in the nursery was to occur in place of the restoration activity. This was to be done with help from Mr. Hamisi Kirauni, KMFRI's lab technician.

#### **MIN 5/04/11/2020: Project Progress.**

Ms. Rahma informed the committee of a training that was to take place before end of 2020. The training was to cover issues on governance and blue carbon project functionality. The training was to be a joint training between MP and VBF. Plans were still ongoing and the final date would be communicated to everyone.

#### **MIN 6: A.O.B.**

Mr. Hamisi Matano, reminded the group of the Makongeni water project situation. He mentioned that a meeting was needed with the project's committee, community and MP committee to discuss on the way forward.

The PC was requested to function without an assistant for the remaining part of 2020 as the finances were revised. The matter was to be revisited early 2021.

There being no other agenda, the meeting was closed at 12.15p.m. with a word of prayer from Mr. Hamisi Matano.

Minutes recorded and confirmed by;



Abdillahi Changu  
Chairperson



Rahma Rashid Kivugo  
Project Coordinator

## **MINUTES TO A COMMITTEE MEETING HELD ON 30/09/2020, 9.00AM AT THE KMFRI GAZI SUB STATION**

### **Members Present**

1. Abdillahi Changu – Chairperson
2. Mwanakombo – Secretary
3. Salim Ahmad – Ass. Secretary
4. Uthman Sadik – Ass. Coordinator
5. Rahma Rashid – Project Coordinator
6. Mohammad Bomani – Treasurer
7. Hamisi Mwatata – Makongeni Village Head
8. Iddi Bomani – Gazi Village Head

### **Members Absent**

1. Dala Enea – Ass. Chairperson

### **Agenda**

1. Renewal of Certificate
2. Change of signatories

### **MIN 1/30/09/2020: Renewal of Certificate**

The PC explained that there was need to renew the certificate/license of operation for MP as soon as possible. It was agreed that she follows up on this and get it done with.

### **MIN 2/30/09/2020: Change of Signatories.**

Mr. Abdillahi Changu said that for a while now, Mr. Uthman who was the Ass. Project Coordinator had been serving as a signatory on behalf of the PC who was yet to report to office due to the COVID 19 travel regulations. Mr. Uthman had served that responsibility from the beginning of 2020 to September that year. Despite the PC's reporting, no formal handing over of duties had occurred due to some reasons and it was right that as the accounting officer, she becomes fully responsible over all matters financial. He stated that MP's constitution acknowledged the Chairperson (Abdillahi Changu), Project Coordinator (Rahma Rashid) and the treasurer (Mohammad Bomani) as the official signatories.

The members agreed that the process of changing signatories should be delayed no further and that Ms. Rahma takes up her position from Uthman Sadik, and officially gets included in the list of bank signatories.



Rahma

(Project Coordinator)

Rashid



Kivugo

(Chairperson)



Abdillahi Changu

### **MINUTES OF A COMMITTEE MEETING HELD ON 15/07/2020, 10.00 AM AT THE KMFRI GAZI SUB-STATION.**

#### **Members Present**

1. Rahma Rashid – Project Coordinator
2. Uthman Sadik – Ass. Project Coordinator
3. Abdillahi Changu - Chairperson
4. Dala Enea – Ass. Chairperson
5. Mohammad Bomani - Treasurer
6. Mwanakombo
7. Fatuma Mashobo
8. Ahmad Salim – Ass. Secretary
9. Omar Hamadi
10. Bakari Mwaropia
11. Iddi Bomani – Gazi Village Chairman
12. Saumu Ali
13. Hamisi Mwatata – Makongeni village head
14. Changare John

15. Biasha Juma

### **Members Absent**

1. Bakari Edward- Secretary

### **Agenda**

2. Introduction of the new project coordinator.
3. Project progress.
4. A.O.B.

### **Preamble**

The meeting commenced with a word of prayer from Ahmad Salim

### **MIN 01/15/07/2020: INTRODUCTION OF THE NEW PROJECT COORDINATOR.**

Led by the chairperson, every committee member introduced him/herself. Mr. Changu then briefly introduced the PC, Ms. Rahma Rashid and explained how the decision was made to have her as the PC. Ms. Rahma then followed up with a detailed introduction of herself.

### **MIN 02/15/07/2020: PROJECT PROGRESS.**

A recap of the COVID-19 rapid support program held in May was made by the Ass. Coordinator. He stated that Ksh240, 000 had been spent. This money was not part of MP's revenue but was sourced from donations made in support of the project by ACES. Mr. Enea raised a concern on the spending of the money as well as the decision making process (involved parties). This was addressed by the treasurer stating that for some meetings, only the executive body makes attendance. Decisions made are then relayed to the rest of the committee for ease in operations.

The Ass. Coordinator talked about the planting exercise that was usually held in the month of July. Contrary to the normal period, planting for the year 2020 was to be conducted in October, all factors (e.g. season) considered. A planting training (using enhanced restoration techniques to rehabilitate denuded mangrove areas in Gazi Bay) was also to be done by one of the KMFRI students, Mr. Josphat Nguu.

Moreover, the committee was informed about an upcoming launching of the WIO Mangrove restoration guideline to be done on 24/07/2020 as well as a commemoration of the World Mangrove Day. Questionnaires were agreed to be used for the set community project consultation instead of the usual barazas held annually. This was in reference to the COVID-19 set guidelines.

### **MIN 03/15/07/2020: A.O.B.**

Mr. Enea proposed on all committee meeting notifications to be made early enough for adequate planning by the members.

Mr. Omar Hamadi said that most nursery seedlings were usually lost from docking activities done by fishermen in the restoration area. He suggested that the committee should look into measures to protect the seedlings. The chairperson asked the entire committee to meet that Saturday. Each was to carry 3 medium sized logs that would be used to 'fence' off the area. The members were also to replant the lost seedlings. 100 seedlings were proposed for this exercise.

Delays to the KASGAU trip were explained by the Ass. Coordinator.

The committee collectively agreed that Bakari Edward be removed as the secretary and Mwanakombo to take up the position. This was attributed to the fact that he had consecutively missed 7 meetings without apology. Yahaya Said, a villager from Makongeni, was appointed as a committee member.

There being no other business, the meeting ended at 12.35pm with a word of prayer from the Chairperson.

Minutes recorded and approved by;



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**Rahma Rashid Kivugo**

**(Project Coordinator)**



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**Abdillahi Changu**

**(Chairperson)**

## Annex 3 : Media

### 1. The Star newspaper



## Uhuru calls for interventions on climate change

■ Nairobi, Wednesday

President Uhuru Kenyatta yesterday called for urgent and bold interventions to deal with the challenges posed by climate change in Africa.

Uhuru noted that the recent climate change attributed desert locust invasion of Eastern Africa as well as intermittent droughts and floods are a growing socio-economic burden to the region.

"Exacerbated by climate change, the desert locust invasion of Kenya and other Eastern Africa countries has devastated livelihoods of farmers and poses an unprecedented threat to food security," he said.

He spoke at State House, Nairobi during the virtual launch of the African chapter of the Global Centre on Adaption (GCA) Africa.

The launch was hosted by the President of African Development Bank (AfDB) Akinwumi Adesina and addressed by several African leaders among them Presidents Nana Akufo-Addo (Ghana) and Sahle-Work Zewde (Ethiopia).

President Kenyatta said effects of climate change have been worsened by the global Covid-19 health crisis.

"Challenges posed by these climate-related events have been compounded by the ongoing Covid-19 pandemic.

"Though not directly linked to climate change, the global resources allocated to fighting Covid-19 and to mitigate its negative impact on the economy, have, no doubt, reduced what is available to address climate change," he said.

Uhuru called for the integration of adaptation measures into Covid-19 recovery packages and urged development partners to support Africa's climate initiatives.

He challenged GCA Africa to spearhead the up scaling of pilot adaptation projects such as Kenya's livestock insurance scheme, the first of its kind in Africa, to the rest of the continent.

"Additionally, several adaptation initiatives that have been piloted in Africa should be scaled up by the centre we are launching today.

"These include the Kenya Livestock Insurance Programme, the first government livestock insurance scheme in Africa, and which protects pastoralists against drought; and the mangrove protection and restoration project as is being piloted in Gazi, Kenya," he said. - PSCU

## Base Titanium Ltd. Official Facebook Website



**Base Titanium**

November 16 at 11:31 AM · 

...

We are happy to announce that phase one of rehabilitation of the Gazi boardwalk into an eco-friendly walkway is now complete and has been handed over to the women of Gazi to help them in their mangrove conservation efforts.

Base Titanium together with other partners including KMFRI, Absa Group, Mikoko Pamoja, Eco Post and other conservators have spearheaded the rehabilitation of the 500 metre walkway built above the fragile mangrove eco-system, replacing the wooden boards which had started to rot. The new planks and posts are made from recycled plastic capable of withstanding harsh weather and sea water.

The Gazi Board walk has not only served as a tourist site, it has elevated the women of Gazi into conservationists and peer educators on the importance of managing the fragile mangrove eco-system.

#recycle #improvinglivelihood #environment  
#mangrove



**Send Message**

...



# Restoring and protecting mangroves

THROUGH CARBON  
FINANCING

BY JAMES  
KAIRO, ANN  
WANJIRU AND  
MWANARUSI  
MWAFIRIKA

Below: A 10 year old  
mangrove planter at  
Bidi Bay, Paje, Zanzibar.



## Annex 4: Impacts (Receipts)

### 2019 Expenditure

 2019 Mikoko Pamoa  
receipts.pdf

 2020 MP receipts.pdf