



2015-2016 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
ESPA	Ecosystem Services for Poverty Alleviation
GOGACOFA	Gogoni-Gazi Community Forest Association
GHGs	Greenhouse Gas Emissions
HMP	Hazina ya Maendeleo ya Pwani
KCDP	Kenya Coastal Development Project
KFS	Kenya Forest Service
KMFRI	Kenya Marine & Fisheries Research Institute
MPCO	Mikoko Pamoja Community Organisation
MPSG	Mikoko Pamoja steering group
NGO	Non-governmental Organisation
PES	Payment for Ecosystem Services
PFM	Participatory Forest Management
PDD	Project Design Document
PVC	Plan Vivo Credits
WIOMSA	Western Indian Oceans Marine Symposium Association
WWF	World Wide Fund for Nature

Glossary

Agroforestry; is a land use management system in which trees or shrubs are grown around or among crops or pastureland.

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 (tCO₂e) equivalent to one tonne of carbon dioxide.

Household; A household consists of one or more people who live in the same dwelling and also share at meals or living accommodation, and may consist of a single family or some other grouping of people.

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.

Revolving Fund; A fund or account that remains available to finance an organization's continuing operations without any fiscal year limitation, because the organization replenishes the fund by repaying money used from the account.

Zonation; is a conservation planning framework and software. It produces a hierarchical prioritization of the landscape based on the occurrence levels of biodiversity features in sites (cells) by iteratively removing the least valuable remaining cell while accounting for connectivity and generalized complementarity.

Summary

Project overview	
Reporting period	1 st January 2016 – 31 st December 2016
Geographical areas	Gazi bay mangrove forest
Technical specifications in use	Mikoko Pamoja

Project indicators	Historical (2014- 2015)	Added/ Issued this period (2016)	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	498	0	498
Area under management (ha) where PES agreements are in place	117.4	0	117.4
Total PES payments made to participants (USD)	\$24,494	\$14,833	\$39,327
Total sum held in trust for future PES payments (USD)			\$13,787
Allocation to Plan Vivo buffer (tCO ₂)	731	338	1,069
Unsold Stock at time of Submission (PVC)			0
Total Unsold Stock (PVC) (including this vintage)			1,443
Plan Vivo Certificates (PVCs) issued to date			4,144
Plan Vivo Certificates requested for issuance (2016 Vintage)			1,912
Plan Vivo Certificates available for future issuance (REDD only)			0
Total PVCs issued (including this report)			6,056

Part A: Project updates

A1 Key events

17th and 28th June 2016 – Mikoko Pamoja team members attended and helped to run an International Course on Mangroves that was organised by KMFRI and held at the Kenyan Coast with the aim of building capacity for professionalism and Institutions to undertake research, monitoring and management of mangroves ecosystem. 24 participants from 7 Western Indian Ocean countries took part in the training. The course included two days field sessions where the participants got to visit and learn the work of Mikoko Pamoja.

31st May 2016 and 3rd June 2016 – Mikoko Pamoja was invited to showcase in the Regional Forum on Blue Solutions for Oceans, Coast and Human Wellbeing in Africa that was held in Zanzibar. The forum showcased inspiring blue solutions in marine and coastal planning and allowed participants to share experiences and learn from others. The project got to share with others, who were interested in replicating the project in their countries, on how it is changing livelihoods, conserving biodiversity, and mitigating the impacts of climate change through mangrove conservation.

April to May – Ann Wanjiru, an impact officer with Mikoko Pamoja visited UK (with funding from ESPA) in order to enhance capacity on development of mangrove educational materials. During the visit she attended the 2016 Earthwatch debate ‘Does Nature Come with a Price Tag?’, where she got to talk to people about the project activities and helped collect more than £1,000 in charitable donations.

6th June 2016 and 7th June 2016 – Mikoko Pamoja hosted Carl Lindesvärd from ZeroMission, Sweden. ZeroMission are one of our major carbon buyers, and Carl had called in to familiarize with the operations of Mikoko Pamoja. There was no market buyer during this mission.

8th June 2016 – MPCO celebrated World Oceans Day under the theme “*healthy oceans healthy planet*” (figures 2 & 3). The activity involved beach clean-up exercises and creative arts competition for school children around Gazi bay. Children from different schools, NGOs and government agencies attended the event.



Figure A1.1: Primary school student participants of the World Oceans Day beach clean

20th June 2016 – MPCO donated books worth KES 150,000 (USD 1450) to Gazi primary school as part of the money allocated for community development activities. The textbooks were presented to the school in a colourful ceremony that was attended by the County Executive in-charge of Education in Kwale County, the District Education Officer for Msambweni as well as top officials from Kenya Forest Services (Coast) and Kenya Marine and Fisheries Research Institute.



Figure A1.2: Book launch at Gazi Primary School for the Mikoko Pamoja funded

school books.

26th July 2016 – MPCO celebrated the International day of Mangrove Conservation in Mikindani Mombasa County, Kenya. UNESCO has designated July 26th of every year as World Mangrove Conservation Day. To mark the day in Kenya, KMFRI partnered with KFS, Big Ship and Mikoko Pamoja to replant degraded mangroves in Mombasa County. Approximately 1,400 mangrove seedlings were replanted by the 300 participants who attended the event.



Figure A1.3 Officials group photo for the people present during the event.

31st August 2016 – MPCO partnered with the Kenya Forest Service to exhibit at the 2016 Agricultural Show of Kenya, in Mombasa. The theme of the Show was “*Enhancing Technology in Agriculture and Industry for Food security and National growth*”. KFS received awards for the best overall stand at the show, the best government stand and the best environmental conservation stand in the five day exhibition which attracted 175 local and international exhibitors.

17th October 2016 - MPCO was invited to present at the international UN-REDD+ symposium on ‘*Valuation of Forest Ecosystems and their Services*’. The meeting was attended by over 500 participants (Annex 6).

18th October 2016. Diana Wanyonyi, a radio reporter from Kenya was awarded an environmental journalists’ African Award under the Radio Category for a story she filed on Mikoko Pamoja. The story dubbed “carbon credits from mangroves improve livelihoods in Kenyan coast villages”, showed how sale of carbon credits from mangrove is achieving a triple win – climate, community and biodiversity. The gala awards took place in the UN African headquarters in Addis Ababa, Ethiopia on the night of 18th October, 2016. (for

details of the award please link: <https://soundcloud.com/diana-wanyonyi/carbon-credit-earnings-from-mangrove-improves-livelihoods-in-kenyan-coast-villages>)

12 November 2016

During the UNFCCC Climate change meeting in Marrakech, Dr James Kairo, a co-founder of Mikoko Pamoja participated in a side event co-hosted by International Blue Carbon Partnership, Australian Government and IUCN. The theme of the side event was 'Incorporating Blue Carbon Into Nationally Determined Contributions Under the Paris Agreement'. Activities of Mikoko Pamoja are fully inline with national REDD+ process.



Figure A 1.4 From L-R: Kushla Munro, Department of the Environment and Energy, Australia; Marcel Silvius, Wetlands International; Emily Pidgeon, Conservation International; Martha Rojas-Urrego, Secretary General of the Ramsar Convention; Sally Box, Department of the Environment and Energy, Australia; James Kairo, Marine and Fisheries Research Institute, Kenya; Nur Masripatin, Ministry of Environment and Forestry, Indonesia; and Duncan Marsh, The Nature Conservancy

14th & 15th November

Kwale water sector stakeholder's platform; *Mkurumudzi river catchment*. Mkurumudzi is the major seasonal river draining into mangroves of Gazi bay. Recently the river has suffered from loss of riparian vegetation as well as damming and abstraction of freshwater from irrigation and mining. These activities threaten sustainability of Mikoko Pamoja through sedimentation and reduction in freshwater flow. So a meeting was called to discuss the conservation strategy of Mkurumudzi river catchment. Participants included the County water department, Government agencies (KWS, KFS, KMFRI, WARMA) NGOs (WWF), CBOs (Kwale County Natural resource network, Mikoko Pamoja) and Private sector (KISCOL, Base Titanium).



Figure A 1.5: Professor Huxham from Edinburgh Napier University teaching the stakeholders about mangrove ecology and the Mikoko Pamoja project

27-30th November 2016

Madagascar delegation visit Mikoko Pamoja

A team from Tahiry Honko, a carbon project from Madagascar, visited Mikoko Pamoja to learn about their activities. The team comprised 3 fishermen from the project area and a project manager from Blue Ventures, an International NGO with activities in Madagascar. The 3 day exchange visit created an opportunity for the Mikoko Pamoja committee and the Madagascan team to learn from each other's achievements.



Figure A 1.6: (a) Dolce Randrianandrasaziky from Blue ventures presents on the Tahiry Honko carbon project to Mikoko Pamoja committee (b) the team visits the Mikoko Pamoja project area

2nd -13th Dec 2016

Short training course on Community based Ecological Mangrove restoration

KMFRI in collaboration with Vrije Universiteit Brussels organized a short training course on Community Based Ecological Mangrove restoration (ComEcoMa) from 2nd -13th Dec



2016 in Diani, Kenya. During the training Mikoko Pamoja team presented on its activities and organized a field visit to their activities areas. The training course was attended by 24 participants from 9 mangrove

countries in Africa and Asia.

Figure A 1.7 participants of the short mangrove training course visit the Mikoko Pamoja project area

A2 Successes and challenges

- **Successes**

Revenue: Sales of carbon credits this year have earned USD 29,687; this includes money already transferred from ACES to Mikoko Pamoja and money held for credits sold in advance. This revenue has benefitted the local community (further information in Annex 2).

Surveillance Tower: The surveillance tower that was planned, designed and approved by KFS has been completed, and is expected to improve surveillance in MPCO project activity area 1 (Figure A2.1).



Figure A2.1 Watch tower completed this reporting period to improve surveillance of MPCO project area 1.

- **Challenges**

Boundary delineation: MPCO have taken measures to reduce illegal harvesting of mangroves in the project area; at the same time enhancing restoration of degraded forests. Due to the adjacent forests being unprotected, there is a challenge of unclear boundaries for Mikoko Pamoja. We have, however, used new markers this year to delineate the boundary and worked to increase awareness of the project area with local stakeholders. Mikoko Pamoja has increased surveillance by employing two community scouts to patrol the project areas on a daily basis.

Seed Availability: Mangroves are very dynamic ecosystems, and are susceptible to effects of climate change. During the reporting period, Mikoko Pamoja failed to reach the planting target of 4000 new mangrove seedlings. This is because of the unavailability of seeds of the target species, *Sonneratia alba*. We have established a mangrove nursery to address the problem next year, and also want to request a change in our monitoring targets. At present failure to meet the planting targets incurs a 10% penalty in credits, even though the planting activities only generate ~1.8% of our saved carbon.

Seedling Mortality: The area designated for future planting has become subject to large amounts of sedimentation from the bay, and shoreline change is a concern to the Mikoko Pamoja team. Continued planting on the eroding site is important (indeed it is to help control this erosion that the site was selected) but also challenging as mortality will be expected.

Sales and Marketing: The sales and marketing of carbon credits are undertaken by both local and international volunteers, and by trustees and volunteers for ACES. Commitments to the community were met in terms of providing school books and strengthening the water projects in Gazi bay, and all credits that were issued this year were sold. However, selling credits remains a challenge and we continue to look for ways in which we can improve our marketing and communications to potential buyers.

A3 Project developments

There were no changes made to the PDD, risk assessment or technical specification during this period.

A4 Future Developments

- Developing a new mangrove project based on Mikoko Pamoja

The community at Vanga has expressed sustained interest in running their own mangrove project modelled on Mikoko Pamoja. Vanga is the largest mangrove forest in Kwale County. It lies 40km south of Gazi mangroves at the Kenya-Tanzania border. There is, therefore, an important opportunity to influence mangrove conservation and livelihoods there. The project is under development; we plan to submit a full PDD in spring of 2017 and to begin trading credits later that year.

- National Policy

Through the work of Dr James Kairo on the Kenya's National Mangrove Management Plan, Mikoko Pamoja experience is informing the shaping of this national policy instrument that will guide future management of mangroves in Kenya.

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 organisation.

Table B1: Project activity summary

Name of technical specification	Area (Ha)	No smallholder households	No Community Groups
Natural mixed forest (Activity area 1)	107	498	1
Indigenous plantation (Activity area 2)	10	498	1
Degraded beach site (Activity area 3)	0.4	498	1

B2 Project activities in addition to those generating Plan Vivo Certificates

- Community woodlots

The two fully owned community wood lots of 2500 *Casuarina equisetifolia* trees were established in Gazi and Makongeni primary schools in 2013. The woodlots were measured in June 2016 for diameter at breast height (DBH) and their form (1, 2 or 3 depending on the straightness of the pole). The total number of merchantable poles is 1,388 with Gazi having 439 while Makongeni has 949 trees. On hectare basis, the density of wood in Makongeni and Gazi are 973stems/ha and 442stems/ha; with a general pattern of sigmoid pattern of distribution (Fig.2 and Fig 3) that is common for even-aged plantations.

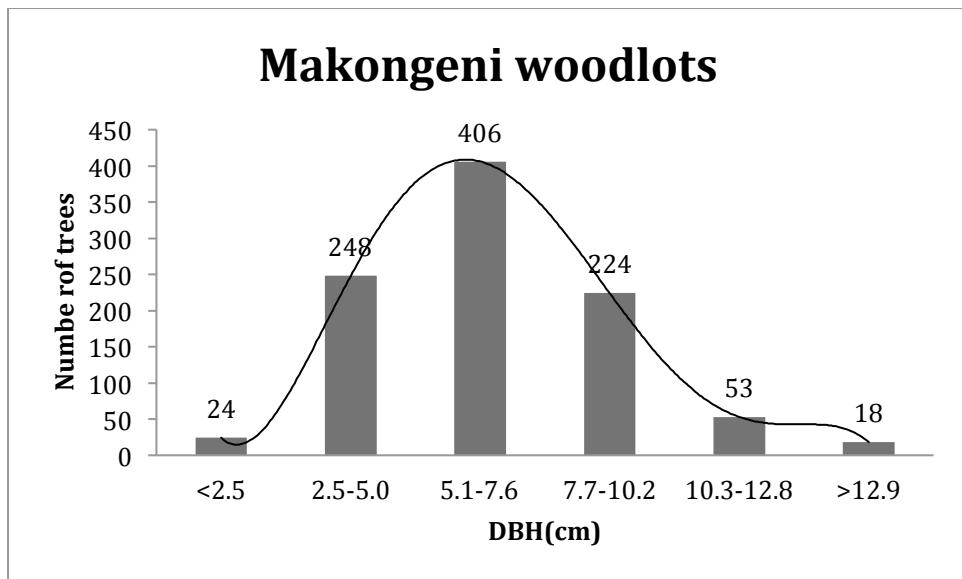


Fig B 1.1 Overall distribution of planted woodlots in Makongeni

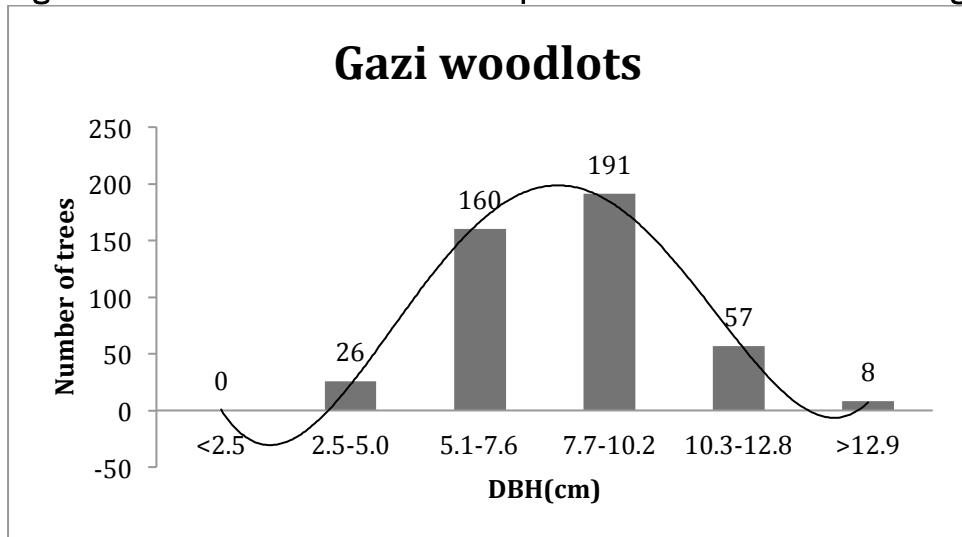


Fig: B 1.2 Overall distribution of planted woodlots in Gazi

The woodlots are now being harvested with the aim of subsidizing wood resources (firewood and building poles) that is otherwise harvested from the Gazi bay mangroves



FigureB 1.3; Mikoko Pamoja committee member selling construction poles to community members

- **Community awareness**

In this third year of carbon trading, MPCO continues to undertake community education and awareness on the true value of the mangrove ecosystem, climate-change, community engagement and biodiversity (figure B1.4).



Figure B 1.4 Mikoko Pamoja impact officer together with students from Gazi primary school at the Gazi women Mangrove boardwalk

MPCO continues to engage partner schools in Gazi bay, both primary and secondary level, in awareness creation events such as a village clean-up, a beach clean, and essay writing and artwork competitions, as well as mangrove tours and presentations (Figure B2.1). Community meetings are another opportunity to raise awareness.



Figure B2.1: Mikoko Pamoja project co-ordinator Salim Abdalla hosting a group of students and academics at the Gazi women's boardwalk, and presenting about the Mikoko Pamoja project.

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 01/2016 – 12/2016

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	2000	15	300	1,700	0
Project area 2	10	Mikoko Pamoja	0	250	15	38	212	0
Project area 3	0.4	Mikoko Pamoja	0	0	15	0	0	0
TOTAL	117.4		0	2,250		338	1,912¹	0

¹this sum is lower than the CO₂ sequestered. This is because our monitoring targets specified in the PDD allocate 10% of PVCs to Area 3 activity, even though the total tCO₂ sequestered here is a smaller fraction (~1.3%) than this.

C3 Data to support issuance request

Please refer to Annex 1 for data to support the issuance request.

Table C3: Allocation of Issuance Request

Buyer Name/Unsold Stock	No. of PVCs transacted	Registry ID if known)	Technical Specifications used
Edinburgh Napier University	330	n/a	Mikoko Pamoja
Society for Conservation Biology	139	n/a	Mikoko Pamoja
Association for Coastal Ecosystems	1,443	103000000008881	Mikoko Pamoja
TOTAL	1,912		

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 2014 – DECEMBER 2015 (note change in reporting year)						
2014	Earthwatch	1000				100
2014	Paolo Merlini	10				100
2014	Zero Mission	720				100
2014	Algarve Students	34				100
2014	Imperial College	2				100
2014	Nico Koedam Research Group	38				100
2014	Nico Koedam Family	10				100
2014	Will Ashley-Cantello	10				100
SALES 2016						
2014	Iain and Julia	10				100
2014	Farid - Tropimundo	189				100
2015	Edinburgh Napier University	660				100
2014	Steve Crooks	30				100
2015	ZeroMission	700				100
2015	SCB Marine Section	1,200				100
TOTAL		4,613				

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

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 (please indicate if this can be included in public version)
2016	1,443	

Part E: Monitoring results

E1: Ecosystem services monitoring

Monitoring results that support the request for new issuances are presented in Annex 1. Monitoring targets were met for activity areas 1 and 2, however the threshold was not met for activity area 3 in this reporting period. This was because we could not raise seedlings in the nurseries this year, and therefore suffer a 10% penalty on issuances.

E2: Maintaining commitments

No participants have resigned from the project this year.

E3: Socioeconomic monitoring

Initial payments were disbursed into the two villages involved in the Mikoko Pamoja Community Organisation this year, and an impact assessment carried out to monitor the impact of these funds. Further information regarding household, teacher and visitor surveys are given in Part F.

E4: Environmental and biodiversity monitoring

See Annex 1 for monitoring results. Successful forest protection will result in ecosystem benefits, but these will not manifest for a few years. As such, we have established baseline monitoring for fauna (crabs and molluscs) in the project areas, and will continue to monitor for changes in the future.

Part F: Impacts

F1: Evidence of outcomes

During the 2015-2016 reporting year, the approved benefit sharing scheme (ref. PIN) was used. Both Gazi and Makongeni villages received US \$1,500 (approx. Ksh 150,000.00) each, as direct payments to finance community development projects. The funds were used to improve the education system, water and sanitation systems in the two villages. This included the purchasing of a 15,000 litre water tank at Makongeni village (bought using charitable donations raised by the Association for Coastal Ecosystem Services for Mikoko Pamoja) and purchasing of text books worth KSh 150,000 for Gazi primary school; the books will help improve the education system in the area and reduce the ratio of textbooks sharing in class and improve the performance in National exams.

Gazi community decided to buy 300 textbooks for the local primary school as the government only provided 69 textbooks out of the 1660 that the school required. The outcome of this is that there has been a reduction in the ratio of students sharing a textbook per class.

The launching of books bought by Mikoko Pamoja carbon funds was graced by Hon Mangale Chiforomondo, County Minister for Education, assisted by the KFS Coast Conservancy, Chief scientist KMFRI, DEO Msambweni and other officials from both the Government and partners NGOs.



Figure F1.1: Textbooks bought for Gazi primary through the carbon funds (top) and the guest of honour presenting the books to one of the students Gazi Primary school (bottom)

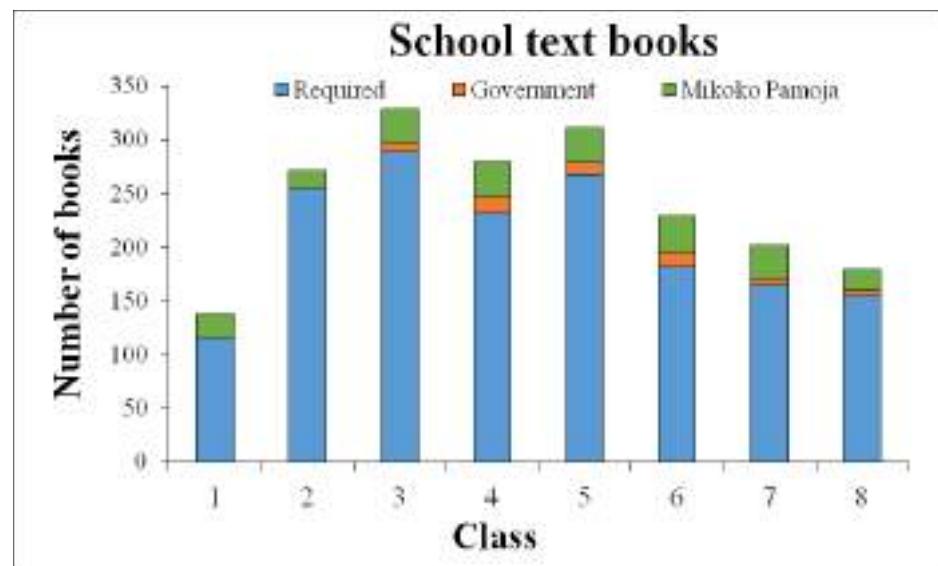


Figure F1.1: Number of school books required in Gazi Primary (blue bars); the number provided by the government (Orange) and those provided by Mikoko Pamoja in 2016

On the other hand, Makongeni village decided to fund the water project once more by buying a 10,000 litre water tank which can store water and make it available to the community for a whole day.



Figure F1.3 Water tank and water pump purchased by Mikoko pamoja carbon funds.

According to a social survey (Annex 3) conducted in September 2016 by Mikoko Pamoja, a total of 476 out of 599 households in Gazi Bay use Mikoko Pamoja water. The water project has resulted in a reduction of hours lost drawing water from a borehole. It is also expected to result in improved livelihood as a result of reduction of the price of water from KES 20 to KES 3 per 20L jerrycan.

Mikoko Pamoja has also piped fresh water to Makongeni Primary school which has previously been using salty water from a hand pump located in the school compound. The Earthwatch funded project is going to provide water to ~600 pupils and teachers in the school.



Figure F 1.4. Piped water in Makongeni Primary

58% of the respondents answered yes to attending community barazas (meetings). They said that they attended the barazas so that they could decide how the carbon money would be used. 74% of the respondents also felt that the project should be replicated in

other areas so that the other communities could also receive similar benefits like the Gazi Bay community.

In 2016, Mikoko Pamoja conducted environmental education with ~1800 students from 15 learning institutions, including primary and secondary schools as well as universities, who have visited the project. This includes 360 students from Invicta grammar school in England.

Mikoko Pamoja has also assisted a neighboring community (Mwakamba village) to learn about conservation and understand the mangrove ecosystem. Afterwards, the community decided to plant 300 mangroves in the degraded area of their mangroves.

The community is also benefiting from the *Casuarina* woodlots planted 4 years ago to reduce pressure on the mangroves. The trees are currently being harvested for construction poles and firewood by the community and thus helping to control leakage.

- **Publicity**

It is important for MPCO to raise awareness of the project in order to generate credit sales. MPCO has therefore made significant efforts on a local, national and international level to showcase Mikoko Pamoja, and it has gained global interest. This year Mikoko Pamoja have presented at the Mombasa Agricultural Show, the 2nd International Mangrove Training in Kenya, UN-REDD+ symposium (see Annex 6), and other events to engage the public and increase awareness of the project.

- **Increased engagement with government and other stakeholders**

MPCO continually engages with government and other NGOs to present an example of conserving and utilising mangroves for their carbon storage potential. As well as the events mentioned already, Mikoko Pamoja have been used as case studies historically, and over the past year in Kenya's National Mangrove Management Plan, in an IUNC report on climate change, in the textbook "Mangroves of the Western Indian Ocean", and other government and non-government documents.

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 (mm/yy – mm/yy)	2. Total payments made	3. Total payments held in trust	4. Total payments withheld
10/13 – 10/14	11,984	0	0
10/14 – 12/15	12,510	475	0
1/16 – 12/16	14,833	13,787**	0
TOTAL	39,327	13,787	

*Total minimum anticipated funds per year from PVC sales is \$12,749 (assuming all monitoring targets met and all PVCs sold at minimum acceptable price). After deduction of issuance fees, this leaves a minimum anticipated sum of \$11,984 available per year for transfer to the Mikoko Pamoja Community Organisation; however when we are able to sell at higher prices we are able to transfer more than this minimum amount, which has occurred in the past two years.

**Before transfer to the Mikoko Pamoja Community Organisation, funds are held by the charity The Association for Ecosystem Services. Expenses (including bank charges) for ACES in 2014/15 financial year were \$957. So this is subtracted from the sum here. The rest is held pending submission of monitoring results for the current report and because we sold more credits than we had for 2016 i.e. they were sold in advance, with the knowledge of the purchasers

Part H: Ongoing participation

H1: Recruitment

No new participants during this reporting period.

H2: Project Potential

With the project achieving some successes in its initial phase, neighboring communities have expressed interest to join the project. Our current plan is to upscale the Project to Vanga area, some 60km south of Gazi bay. This would result in new participants as well as an update to the current PDD.

We have also conducted the necessary science to begin consultations over including seagrass meadows within our protected area, so the inclusion of seagrass carbon is another medium term objective.

H3: Community participation

The community are actively involved in all stages of Mikoko Pamoja, from implementation to monitoring. A democratically elected committee with representatives from the two participating villages ensures timely implementation of work plans. The committee also plays an oversight role in ensuring that funds allocated to community projects are utilized for the intended purpose.



Figure H3.1: Community participation in Mikoko Pamoja project activities.

See Annex 3 for evidence of committee meetings

Part I: Project operating costs

I1: Allocation of costs

All expenditure this year was met from PVC sales.

Table I1: Allocation of costs

	Narrative	Amount (Ksh)	Contribution from sale of PVCs (Ksh)	Contribution from other sources
Community development projects	Community water and sanitation projects	150,000	150,000	-
	Water top up	25,000	25,000	
		60,000	60,000	
	Books for Gazi primary school	150,000	150,000	
	Books top up	25,000	25,000	
Labour	Work teams for planting and monitoring	216,510	216,510	-
Project worker salary		216,000	216,000	-
Expenses for committee and office		184,950	184,950	-
TOTAL (USD)		1,027,460 (10,320)		

Annexes

Annex 1. Monitoring results for issuance request

The project operates in three 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. 90% of the PVCs are generated through activities in Areas 1 and 2.

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

Monitoring of stocking rates, stumps and basal areas of the forest (in permanent plots) was successfully conducted with the help of village volunteers. Stocking rates and tree growth (measured separately and not presented here but kept as additional data) show forest growth and recovery as predicted in the PDD.

This year we discovered an historical error in the data for stump counts taken last year; a misunderstanding had led to the wrong plots being measured. Hence although stump counts appear to show an increase on last year this is not the case; they show a gradual decline compared with baseline, as expected if old stumps are decaying slowly. This has now impact on previous issuances since we can assume continuity in this trend from the baseline until today.

Table Annex1.1: Stump count and regeneration levels in Mikoko Pamoja project areas

Activit y area	Forest attribute	Quantity/ ha	Measuremen t last year	Baselin e	Remarks
1	Stocking density	5360±528.06	5235 ± 302		Stocking rates have increased attributed to growth of saplings into mature trees; All stumps were counted in the plots and the high density is due to the occurrence of very old stumps.
	Natural regeneration	22740±4365			
	Mean stump density	1370±379.20	911*	2720	
2	Stocking rates	4150±245.06	3575 ± 83		Stocking rates show an increase from the previous year; no significant Change in cut stumps (these are overwhelmingly old cuts).
	Natural regeneration	3860±1045.01	2575 ± 16		
	Mean stump density	710±212.12	600±6*	778	

*these data were taken from the wrong area, hence the inconsistency

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 0 seedlings of *Sonneratia alba* were planted in project area 3, representing 0% of the target at this site (Table Annex1.2).

Hence we failed to achieve our target this year. This was because of difficulties in collecting and nurturing seedlings, caused by changes in the phenology of the trees possibly linked with local climate change.

Table Annex1.2: planted seedling in activity area 3

Date	Species planted	Number planted	Survival rate %
		0	-

Annex 2. Impacts

Receipts of Mikoko Pamoja spending can be found below.

Trans Africa Water QUALITY PRODUCTS		TransAfrica Water Systems Ltd. P.O Box 1179-00502, Nairobi-Kenya. Nairobi Tel: (+254 20) 2632203, 2632204 Eldoret Tel: (+254 20) 2307856, 2369506 Naivasha Tel: (+254 021) 2362554, 2362555 Mombasa Tel: (+254) 718180884 www.transafricanwater.com info@transafricanwater.com PIN No: P051370174Y
Water Pumps • Water Treatment • Pool Equipment • Solar • Generators		
RECEIPT	No.	0572
Received from M/s:	<u>MIKOKO PAMOJA</u>	
The sum of Shillings:	<u>TWENTY FIVE THOUSAND SHILLINGS</u>	
Being Payment of:	<u>ALPHA BP3100 PUMP INSTALLATION</u>	
Cheque / Cash:	<u>Cash</u>	
Ksh:	<u>25,000</u>	<u>/-</u>
		<i>[Signature]</i> With thanks For TransAfrica Water Systems Ltd.

GAZI PRIMARY SCHOOL
MINISTRY OF EDUCATION AND HUMAN RESOURCE DEVELOPMENT
TEXTBOOK ORDER FORM

NAME AND ADDRESS OF BOOKSELLER: LELA BOOKS AND STATIONARY

TELEPHONE: 020-2024125

DISTRICT: MSAMBWENI

DIVISION: DIANI

ZONE: DIANI

SCHOOL: GAZI PRIMARY SCHOOL. PO BOX 23 MSAMBWENI

SPONSER: MIKOKO PAMOJA

CLASS	TITLE OF BOOK	AUTHOR	PUBLISHER	NO. OF BOOKS	UNIT COST KSH	TOTAL COST KSH
TEXTBOOKS AND SUPPLEMENTARY						
3	New progressive primary English	Leah kariuki	Oxford	6	683.00	4098.00
4	New progressive primary English	Leah kariuki	Oxford	6	673.00	4038.00
5	New progressive primary English	Leah kariuki	Oxford	6	719.00	4314.00
6	New progressive primary English	Leah kariuki	Oxford	5	719.00	3595.00
7	New progressive primary English	Leah kariuki	Oxford	4	690.00	2760.00
8	New progressive primary English	Leah kariuki	Oxford	1	690.00	690.00
3	Kiswahili sanifu	Salim Bakhresa	Oxford	6	592.00	3552.00
4	Kiswahili sanifu	Salim Bakhresa	Oxford	6	603.00	3618.00
5	Kiswahili sanifu	Salim Bakhresa	Oxford	6	580.00	3480.00
6	Kiswahili sanifu	Salim Bakhresa	Oxford	6	696.00	4176.00
7	Kiswahili sanifu	Salim Bakhresa	Oxford	5	673.00	3365.00
8	Kiswahili kwa darasa	KLB	KLB	2	638.00	1276.00
1	Primary science	C. W. Gichuki	KLB	6	481.00	2866.00
2	Primary science	C. W. Gichuki	KLB	5	522.00	1030.00
3	Primary science	C. W. Gichuki	KLB	6	429.00	2574.00
4	Primary science	C. W. Gichuki	KLB	6	709.00	4254.00
5	Primary science	C. W. Gichuki	KLB	6	522.00	3132.00
6	Primary science	C. W. Gichuki	KLB	6	563.00	3378.00
7	Primary science	C. W. Gichuki	KLB	5	510.00	2550.00
8	Primary science	C. W. Gichuki	KLB	2	515.00	1030.00

1	Primary mathematics	Indimuli	KLB	6	486.00	2916.00
2	Primary mathematics	Indimuli	KLB	2	515.00	1030.00
3	Primary mathematics	Indimuli	KLB	6	428.00	2568.00
4	Primary mathematics	Indimuli	KLB	6	543.00	3258.00
5	Primary mathematics	Indimuli	KLB	6	640.00	3840.00
6	Primary mathematics	Indimuli	KLB	6	640.00	3840.00
7	Primary mathematics	Indimuli	KLB	6	717.00	4302.00
8	Primary mathematics	Indimuli	KLB	2	744.00	1488.00
1	Our lives today	Cephus C. Kamau	Oxford	6	477.00	2862.00
2	Our lives today	Cephus C. Kamau	Oxford	5	505.00	2525.00
3	Our lives today	Cephus C. Kamau	Oxford	6	505.00	3030.00
4	Our lives today	Cephus C. Kamau	Oxford	6	870.00	5220.00
5	Our lives today	Cephus C. Kamau	Oxford	6	650.00	3900.00
6	Our lives today	Cephus C. Kamau	Oxford	6	661.00	3966.00
7	Our lives today	Cephus C. Kamau	Oxford	4	690.00	2760.00
8	Our lives today	Cephus C. Kamau	Oxford	5	708.00	3540.00
1	New beginning IRE	Islam K. Islam	Oxford	5	522.00	2610.00
2	New beginning IRE	Islam K. Islam	Oxford	5	534.00	2670.00
3	New beginning IRE	Islam K. Islam	Oxford	5	603.00	3015.00
4	New beginning IRE	Islam K. Islam	Oxford	5	661.00	3305.00
5	New beginning IRE	Islam K. Islam	Oxford	5	615.00	3075.00
6	New beginning IRE	Islam K. Islam	Oxford	5	661.00	3305.00
7	New beginning IRE	Islam K. Islam	Oxford	5	661.00	3305.00
8	New beginning IRE	Islam K. Islam	Oxford	5	673.00	3365.00
1	Primary CRE	Abuya Nyaga	KLB	2	394.00	788.00
2	Primary CRE	Abuya Nyaga	KLB	2	412.00	824.00
3	Primary CRE	Abuya Nyaga	KLB	2	450.00	900.00
4	Primary CRE	Abuya Nyaga	KLB	2	452.00	904.00
5	Primary CRE	Abuya Nyaga	KLB	2	463.00	926.00
6	Primary CRE	Abuya Nyaga	KLB	2	487.00	974.00
7	Primary CRE	Abuya Nyaga	KLB	2	510.00	1020.00

Annex 3. Community meeting records

Please find the community meeting records below.

Annex3.1: Community Meeting, March, 7th, 2016. Monday

9:00am-1.30pm

Agenda

- Preliminaries
- Matters arising
- Reviewing of the sight report made on 26th November.2015
- Way forward
- AOB
- Adjournment

MPCO committee members:

Table Annex3.1: Attendance¹

NAME	POSITION
1	Chairperson
2	Vice chairperson
4	Coordinator
5	Treasurer
6	Vice secretary
7	Member
8	Member
9	Member
10	Member
11	Member
12	Member
13	KMFRI Engineer
14	KCDP officer Kwale
15	Contractor

Apologies for two participants

MIN 1 March 2016: Matters arising

The contractor adhered on recommendation one of the previous report and complain for the materials on site.

MIN2 March 2016: Reviewing of the sight report made on 26th November 2015

The response latter form multi-trio agence not yet received to mikoko pamoja office as recommended previously.

MIN3 March 2016: Way forward

¹ Due to data protection, names have been removed from the public version of this document

Engineer wanted to know the exact need of the contractor back to the site and reconstruct new tower
And proper and recommended poles to be used as specified on the BQ as hard wood poles (eucalyptus)

Conclusion

The contractor was able to bring the required poles engineers recommend to despite the observation made on previous report and adhere on current

The contractor shall produce the irrevocable letter to Mikoko pamoja office immediately as he submitted the letter MPCO will approve the payment to be made after the delivery of the materials to the site.

Recommendations

The contractor able to deliver the work required and Amount requested by the contractor was ksh: **409,576**

Recommendations:

To produce an irrevocable letter stating the reason why need that amount of money regarding to his challenges. To be accompany by at least two members of MPCO on looking for the poles.

The contractor to write a latter to mikoko pamoja seeking for the extension of time for the project regarding the challenges mentioned

It was agreed that the contractor to work close with the engineer and MPCO to facilitate the progress of the project to run smoothly.

MIN4 March 2016: AOB

Cooperation among the team emphasized and agreed upon there will be frequent supervision by both parties to ensure progress.

MIN5 March 2016 Adjournment

There were being any other business the meeting was called to an end

Confirmed by

Project coordinator; Salim Abdalla

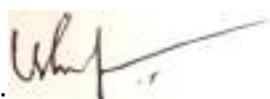
Signature.....



.....Date 7th March 2016

Chairman: Mohamed Mwarandani

Signature.....



.....Date 7th Mach 2016

Annex3.2: Community Meeting, May, 23rd, 2016. Monday 19:00am-1.30pm

Agenda

- Preliminaries
- Way forward on water tower project
- AOB

Table Annex3.2: Attendance²

NAME	POSITION
1	Chairperson
2	Secretary
3	Vice secretary
4	Member
5	KMFRI engineer
6	KCDP officer Kwale
7	Intern KCDP
8	Contractor

MIN1 May 2016 Preliminaries

The meeting set on official at 8:00am by word of prayer from uthman sadik. The contractor read the previous minutes due the absence of the mr. salim mwarima the coordinator and confirmed by the chairperson.

MIN2 May 2016: Way forward of the water tower project

Members satisfied with the report ready. Now the contractor has to write the irrevocable letters to state the challenges .Here the contractor promised to submit the latter to the mikoko pamoja committee on Wed 26/5/2016. Deadline of the three days for contractor and the group to deliver the material as he wait for a cheque to mature.

Recommendation

Group members to act on contractor immediately to construct the delivered material.

Contractor to proceed and prepare for new foundation.

The committee to process a cheque of 35% once he deliver the materials on site.

Contractor to use Y12 for the foundation basis.

MIN3 May 2016

There was no any other business to be discussed at all, the meeting declared off by word of prayer from uthman sadik, All dispersed.

Confirmed by

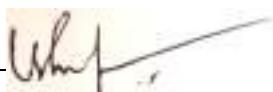
Project coordinator; Salim Abdalla

Signature.....



.....Date 23rd May 2016

Chairman: Mohamed Mwarandani



² Due to data protection, names have been removed from the public version of this document.

Signature.....Date 23rd May 2016

Annex3.3: Community Meeting, 4th August, 2016. Thursday 10:00am-2:30pm

Agenda

- Preliminaries
- Contract data
- Progress of the project
- AOB
- Adjournment and the date of next meeting

Table Annex3.3: Attendance³

NAME	POSITION
1	Vice chairperson
2	Secretary
3	Vice secretary
4	Treasurer
4	Member
5	KMFRI engineer
6	KCDP officer Kwale
7	Intern KCDP
8	Contractor
9	Member
10	Member
11	Contractors employee
12	Member
13	KFS
14	Contractor

Apologies for two participants

MIN 1 August 2016 Preliminaries

The meeting started with the word of prayer from vice chairman (Mr. Ali zubeir) no any previous minutes that were read.

MIN 2 August 2016: Contractors Information regarding the progress of the work

- It was reviewed that the contract started the work on 28/9/2015
- Contract duration: 150 days
- Cost: 1,023,940.00

Min3 August 2016: Progress of the construction of the watch tower

- Poles were delivered to the site as recommended

³ Due to data protection, names have been removed from the public version of this document

- Contractor resume working on new construction based on agreement of the previous meeting
- Contractor excavated and erected four Colum poles as specified in the Bill of quantity (BQ)
- The contractor should create another Colum based between the middle of entrance Colum
- To construct foundation to the above water level (Above water level is where the wood stair should start)
- Constructor to construct there landing and agreed to show on drawing.

Constraints

- Time in and out during work days not convincing in regarding to the work allocated
- Delay on change of drawings of the new design

Conclusion

- The contractor agreed to deliver the project at a complete stage within duration of a month effective from 4th August.2016.
- The contractor shall visit mikoko pamoja office to share the notes regarding to his plan of completion of the project within duration of a month regarding the tides routine.
- The contractor to produce a letter to mikoko pamoja, justifying an extension of the contract and then to produce another latter for the extension request.

Recommendation

- The plan to be changed and have three stages in terms of stairs
- To maintain the verticality of the structure.
- The contractor to complete within agreed time
- The project progress report to be distributed to KFS office

Min4 August 2016: Meeting adjournment

The meeting adjourned at 5:00 pm, no date of the next meeting was set, members shall be contacted by the coordinator and the gathering was dismissed.

Confirmed by

Project coordinator; Salim Abdalla

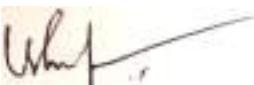
Signature.....



.....Date 4th August 2016

Chairman: Mohamed Mwarandani

Signature.....



.....Date 4th August 2016

Annex3.4: Community Meeting, September, 10th, 2016.
Saturday
9:00am-1.30pm

Agenda

- Tower construction progress
- Challenges
- AOB

Table Annex3.4: Attendance⁴

NAME	POSITION
1	Chairperson
1	Vice chairperson
2	Contractor
3	Vice secretary
4	Treasurer
4	Member
5	Member
6	Member
7	Intern KCDP
8	Village head
9	Member
10	Member
11	Contractors employee
12	Member
13	Coordinator

Min1 September 2016 Progress of the project

Members proved that, there is an improvement of the construction compared to the steps left at last visit.

Min2 September 2016 Challenges

Despite the improvement approved but still some challenges emerge as limitation facilitating the slow progress of the project:

- Payment of the employees from the contractor is problem
i.e. the peace rate means of payment agreed is not fulfilled.
- The contractor is not cooperating with his employees

Min3 September 2016 Conclusion

The committee to consult the contractor so as to come up with clear strategies of completing the project as fast as possible since the thirty days of extension given is now out dated by 4th sep.2016

⁴ Due to data protection, names of participants have been removed from the public version of this document

Min4 September 2016 Recommendations

The committee shall do the FOLLOW UP to the contractor so as to produce the following:
To produce his work plan effective from 4th.Aug.2016 up to date.

A.O.B Climate change meeting

After the discussion of the committee done on 8th .sep.2016, the coordinator Mr. salim mwarima from Dr. Kairo through Mikoko pamoja chairman revealed that one more member to be added. Thus, it was agreed for mikoko pamoja chairman to be given the opportunity

Confirmed by

Project coordinator: Salim Abdalla

Signature.....



.....Date 10th September 2016

Chairman: Mohamed Mwarandani

Signature.....



.....Date 10th September 2016

Annex3.5: Community Meeting, October, 14th, 2016. Friday 9:00am-1.30pm

Agenda

1. Preliminaries
2. Planting
3. Monitoring
4. A.O.B

Table Annex3.5.1: Attendance

NAME	POSITION
1	Chairperson
2	Vice chairperson
3	Gazi village head
4	Coordinator
5	Treasurer
6	Vice secretary
7	Member
8	Member
9	Member
10	Member
11	Makongeni head

Apologies for two participants

Min1 August 2016 preliminaries

Meeting set on with the word of prayer from mwinyi iddi, then the co-ordinator gave the directives direct to the special business as listed.

Min2 August 2016 monitoring

Monitoring of the planted seedlings natural site and the plantation, was discussed that there has been a lot of dismantling of the mangrove forest on the project sites which is a threat to the project, members to ensure they follow up with the scouts on ground and try to ensure the people responsible are held for questioning or law insisted to be followed with the procedure.

Monitoring of the planted seedlings was scheduled to take place on 5th and 6th October 2016.

The following people to participate on 5th and 6th respectively.

(names removed from public version of this document)

Table Annex3.5.2 Monitoring participation of the natural stand on the MPCO permanent plots

No of days	Group	Participants
3	1	
3	2	

Min3 July 2016: planting activity.

diffculties of the activities mentioned no funds to cutter for the participants transport Seeds/and plantation

It was agreed for the trial to be done before the cost incurred much. Some to be sent tversees the availability of the seeds instead of full arrenge of the transplanting process. Hamisi to visit Bodo for seedling survey and to be facilitated with ksh750 for transport.

Break down of the full estimated budget statement.

- Four trips of seeds Transportation@ ksh 10,000 (by means of lorry) that is four days
- Twenty youth for transferring @ksh 500 on four days
- Experts transport, two of them;obinga and hamisi @ ksh 1000 on four days
- Forty villagers @ ksh 500 for four days
- Thirteen kemfri staff @ ksh 750 on four days
- Fourteen Mpc0 committee member @ksh 750 on four days

- Trolls; materials:
- Forty pupils from gazi and makongeni @ ksh 50 for refreshments and not the cash.
- Twenty students from kinondo secondary school-refreshments cost at ksh 3000
- The three teachers from makongeni,gazi and kinondo secondary @ 750 for two days

Min 4 July 2016 A.O.B

It was suggested for the mpco committee to convine a meeting with gazi primary school committee on 7th.oct.2016 at gazi primary.

Agenda;

- Report on woodlots
- Harvesting plan

Min6 July 2016 closing remarks

There was being no any other business the meeting was called to an end and members departed at their own time.

Confirmed by

Project coordinator; Salim Abdalla

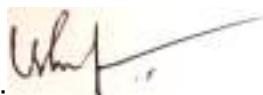
Signature.....



.....Date 14th October 2016

Chairman: Mohamed Mwarandani

Signature.....



.....Date 14th October 2016

Annex3.6: Community Meeting, November, 15th, 2016. Friday

9:00am-12.30pm

Agenda

- Preliminaries
- Sells of the carbon
- Illegal harvesting on the project site
- Woodlots report
- Monitoring report
- AOB

Table Annex3.6: Attendance

Name	Position
1	Chairperson
1	Vice chairperson
2	Contractor
3	Vice secretary
4	Treasurer
4	Member
5	Member
6	Member
7	Intern KCDP
8	Village head
9	Member
10	Member
11	Contractors employee
12	Member
13	Coordinator
14	KMFRI
15	KMFRI
16	ACES
17	Impact officer

1. Apologies for three participants

Min1 November 2016 preliminaries

Meeting set off by word of prayer from Mr. ali Zuberi then each member present introduce themselves with their respective responsibilities on the committee

Min2 November 2016: Report on the sales of carbon

Mr.Marc reported that on May 2016 five hundred thousand (ksh 500000.00) sent to mikoko pamoja account, Come November 2016, Seven hundred thousand (ksh700, 000.00) Sent to mikoko pamoja account as a second transaction . He also added that, on sells he also mentioned that there are many buyers and as we discuss other buyers are ready.

The main buyer of the year was ***International marine conservation congress***, this was facilitated by the congress conducted at Canada on year 2016.at his meeting members noticed the idea of carbon increment and was agreed that the community to be well sensitized in this before any action taken.

Min3 November 2016 Illegal harvesting of mangroves on the project site

Mr. Marc Commented that, since we are not planted as per the plan vivo the 10% of the cash

expected for the year 2016/2017 may be deducted. Also may lead to the decrease of the cash come 2016/2017 funds disbursement?

Conclusion

Mr. Mwamba reported on illegal cut identified from the monitoring activities conducted. The committee decision was to work close with the concerning organization like cfa and kfs as well.

Also mentioned that two boats penetrating to the plantation area during high tides, this was also indicator of the cuts and could not be the members from the Gazi/Makongeni community

Mr. Njoroge commented that the MPCO has the power even to take the KFS to the court if they are not working as per the law stipulation.

Also the mpco should force the cfa board to be revived.

The Makongeni village chairman (Mr. Hamisi Mwalimu) stated that laws must be acted strictly to those cutters mentioned by the Mikoko pamoja security guards (Mr. Juma Zuberi) the chairman also commented on communication barrier happening between him and the security guard, He is not reporting accordingly and also he cannot afford cover the area since he is alone and he is alone and he is paid to work for only two days per week.

It was agreed to be deducted from the community activities to serve on security issues, this is from the 32% as per the disbursement of the carbon funds. The two security guards to work full time, Mark added that it will be okay even to add the selling cost.

Conclusion

Mr. Njoroge stressed that MPCO to recommend on KFS regarding the illegal cuts.

To convene more community meetings concerning the illegal harvesting of the project site

All the committee members to cooperate on each and every event concerning Mikoko pamoja as may arise.

Mikoko pamoja to hire fibre boat to monitor the plantation during high tides

MIN4 November 2016 Woodlots report

At Gazi village it was agreed for 75/= per pole inches, for the village member and 100/= for the out siders. 100 poles were sold

At Makongeni village 200/= per pole inches.

Only 45 poles were sold.

On water project at Makongeni taps are ready invested at Makongeni primary school. Concerning Gazi programme is processing.

Min5 November 2016 monitoring report

5640 July stock rates

5360 Nov. stock rates

The Nov. Monitoring the old stamps were not counted, only the fresh cuts counted and two plots are the one identified the fresh cuts.

Mr. Mark suggested to conduct the monitoring at least every quarterly

It was suggested to have at least three days training to build the capacity of the committee members on project.

Min6 November 2016 A.O.B

Anne mentioned on water management discussion conducted at Diani forest lodge on 14th /15th also said there is a field visit by various stake holders to be conducted rising from the source of **Mkurumudzi** dam, ending at Gazi seahorse where the MPCO nursery site is found.

The project chairman presented the issue of the Mikoko pamoja to its own office. The Gazi village chairman accepted the responsibility of finding out of the enough space for the construction before any application/proposal sent to any donor may mentioned.

Remarks:

The project vice chairman acknowledged the visits of Mr. Mark Huxhum

Min7 November 2016 Adjournment

There were being no any other business to be discussed the meeting was called to an end at 11:30am

Confirmed by

Project coordinator; Salim Abdalla

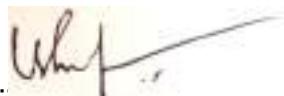
Signature.....



.....Date 15th November 2016

Chairman: Mohamed Mwarandani

Signature.....



.....Date 15th November 2016

Annex 4. Socioeconomic monitoring results

Annex 4.1: Social survey

In September 2015, a social survey was carried out in Gazi and Makongeni villages to assess the impact of Mikoko Pamoja on the local community, and surveyed a 20% subsample of the 498 households in the Mikoko Pamoja catchment area (Table Annex4.1 shows demographic information about the people surveyed). The questionnaire used for the survey was based on 3 main impact factors; water, education and health. The outcome of the social survey, presented in Table Annex4.2, shows the number of respondents who answered each multiple choice answer. Additionally, Table Annex 4.3 shows the respondent age and their previous participation in Mikoko Pamoja activities.

Table Annex4.1: Demographic information of participants surveyed, including the question asked, and the number and proportion (%) of responses to each response option.

Question	Response option	Number of responses	Proportion of total response (%)
Age	<20	3	3.61
	20-29	19	22.89
	30-39	21	25.30
	40-49	18	21.69
	50-60	16	19.28
	>60	6	7.23
Gender	Female	60	65.2
	Male	32	34.8
Ethnicity	Bajuni	2	2.2
	Digo	64	69.6
	Other Mijikenda	7	7.6
	Others	14	15.2
	Pemba	5	5.4
Size of household	1-4	22	23.9
	5-8	51	55.4
	9-12	15	16.3
	13-16	4	4.3

Table Annex4.2: Results of social survey, including the question asked, and the responses to each response option.

Question	Response option	Number of responses	Proportion of total response (%)
Should Mikoko Pamoja be replicated in other area	No	4	4.3
	Don't know	20	21.7
	yes	68	73.9
What resource would you like to be availed?	Better health care	5	5.56
	Education	26	28.89
	Easier access to water	15	16.67
	Easier transportation	2	2.22
	Employment	19	21.11
	others	23	25.56
Have you attended community barazas?	No	38	42.22
	Yes	52	57.78
Have you participated in Mikoko Pamoja activities?	no	46	50.55
	yes	45	49.45

Table Annex 4.3: Number of respondents who do and do not participate in Mikoko Pamoja project activities, for the six age group categories.

Age group	Number of respondents	
	Don't participate	Participate
<20	2	1
20-29	8	11
30-39	10	11
40-49	3	15
50-60	11	2
>60	6	2

Annex 5. Zonation map of Mikoko Pamoja project areas

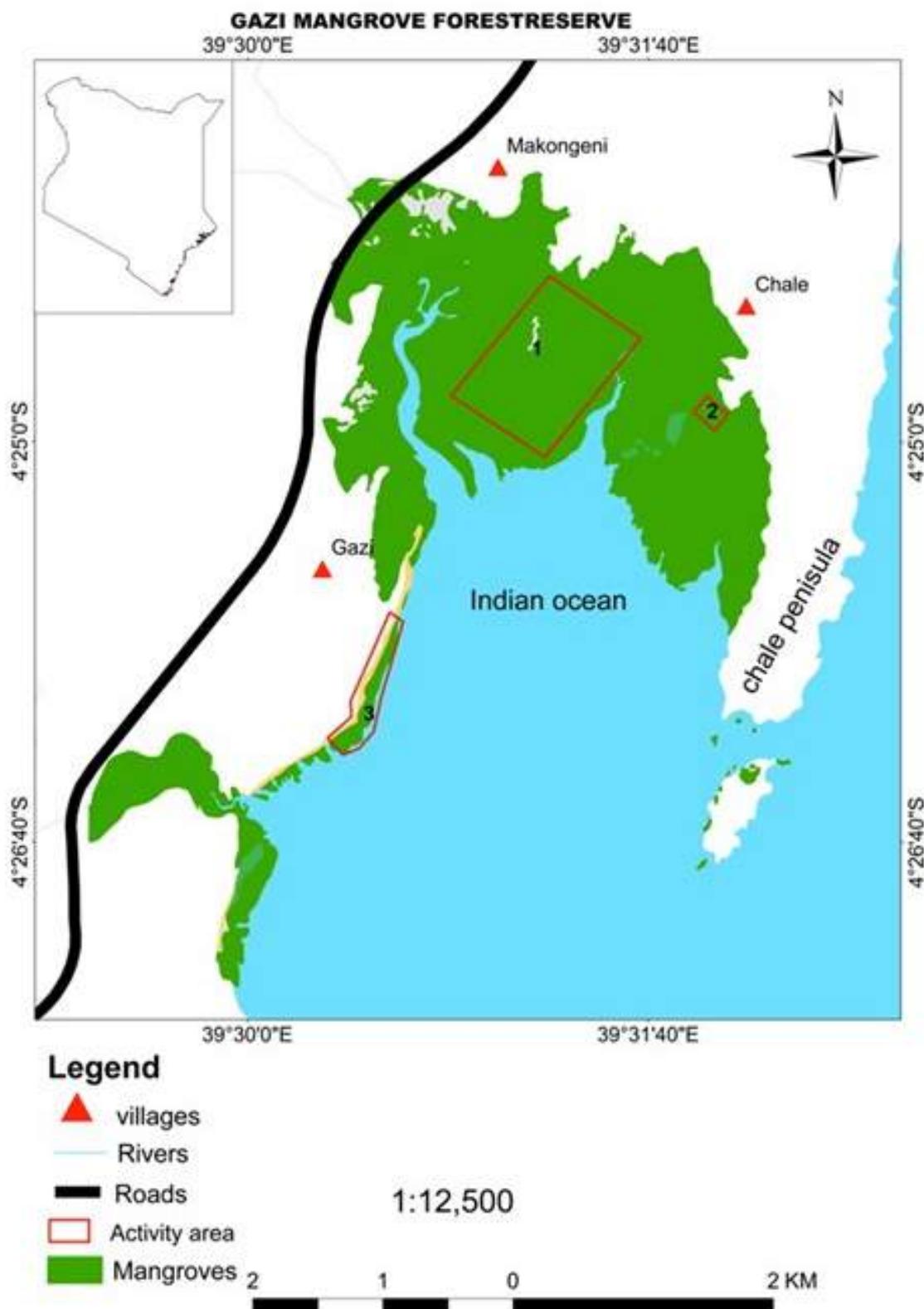


Figure Annex5.1: Zonation map of Mikoko Pamoja project areas, marked with villages (red triangles), rivers (blue lines), main roads (black line), mangrove cover (green areas) and project activity areas 1, 2 and 3 (red outlined areas).

Annex 6. Mikoko Pamoja at UN-REDD+, Sri Lanka

Mikoko Pamoja was represented at the **International Research Symposium on Valuation of Forest Ecosystems and their Services** by Molly Czachur, an intern from Kenya Marine and Fisheries Research Institute whose research has focussed on the triple benefit of Mikoko Pamoja to climate, community and biodiversity. Molly was representing Dr James Kairo from the same institute, who could not attend the meeting. Her presentation was delivered to over 500 participants at the meeting which was organised by UN-REDD+, a United Nations programme aimed at reducing emissions from deforestation and forest degradation. In addition to the oral presentation, Molly was able to network and gain interest from the Sri Lankan governmental organisations regarding upscaling the Mikoko Pamoja PES approach in the protection of Sri Lankan mangroves, which by law became the first country to protect all its mangrove forests in 2016.



Figure Annex6.1: Photographs from the meeting, including Molly Czachur (left) presenting, and the audience of over 500 participants (right).