



ANNUAL REPORT 2020/2021

by
ASSOCIAZIONE MAZINGIRA NGO

TREE PLANTING AND AGROFORESTRY PROMOTION
FONDAZIONE FORESTA FUTURA PROJECT

MANGULA - KILOMBERO (MOROGORO- TANZANIA)

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1. EXECUTIVE SUMMARY

Associazione Mazingira NGO was officially registered as a Non-Governmental Organization on 19th of July 2019 (number NGO/R2/ 000145). Before it was registered as non-profit company since on the 6th of September 2017, but it has been working in Tanzania since 2011 in partnership with MUSE – Museo delle Scienze Trento, Udzungwa Ecological Monitoring Center (UEMC), Tanzania Forest Conservation Group (TFCG) and TANAPA, embracing community-based environmental conservation to address environmental challenges thank to localized solutions in a meaningful and sustainable way, according to its statutory mission and vision.

This report explains activities performed in the year 2020-2021, results obtained, deliverables and challenges experienced during the time of implementation. In 2020/2021, 5 tree nurseries have been established and managed: 3 in the villages of Mwaya (Mwaya Darajani), Kisawasawa and Kanyenja, 1 in the Kiberege prison and 1 at UEMC, and a total of **203.470 seedlings** have been raised and transplanted to the community field. In Mwaya Darajani and Kanyenja **34.000 seedlings** have been raised, while Kisawasawa, UEMC and Kiberege prison managed to raise **169.470 seedlings**. In order to raise local community awareness on tree planting, Associazione Mazingira decided to write and print **360 books** and distributed to 18 schools, where it carries on its environmental education program.

Almost one hour documentary film have been prepared in Kiswahili to show the activities of the association and use it for educational purposes that target the community and in other social media to reach more people in Tanzania as well as other areas abroad.

A demonstrative study tour involving **148 farmers** has been conducted in areas where environment was degraded with the purpose of showing the results of tree cutting and logging and so encouraging tree planting among the community.

Financial management and record keeping training was carried on among 80 entrepreneur groups in order to offer tools and develop techniques to manage their businesses.

Associazione Mazingira has also increased the quantity of land managed with agroforestry techniques, by adding to its agroforestry scheme about **17 acres** owned by **60 farmers**. This is a progressive success because in the tree planting season 2019-2020 Mazingira managed to raise **213.600** seedlings and transplanted them into community fields. Among those **28.600 seedlings** have been raised **in 10 schools** and **185.000 seedlings in the 5 villages** of Mkasu, Kisawasawa, Ichonde, Mhelule and Mangula A villages with a total of **117 farmers** practicing agroforestry (for a total of 55 acres) and woodlot management (for a total of 62 acres).

The tree planting campaign 2020-2021 has been hit by the world pandemic of Covid 19 which has delayed or stopped a number of activities, impairing implementation since most of movement and congregation were

limited to avoid spread of the disease. In this respect recommendation is here made to cover the gap by adding more funds to finish some of the remaining tasks on tree planting campaign.

2: ACTIVITIES IMPLEMENTED

2.1: PERSONNEL, EQUIPMENTS AND MANAGEMENT

Currently Associazione Mazingira NGO employs a **staff of 16 local people** who are working in different departments, led by the project Coordinator. The project manager, in collaboration with Udzungwa Ecological Monitoring Center, managed to rent an office in Mang'ula "B" village which is shared with Southern Tanzania Elephant Program (STEP). The office is currently having quite enough equipment to facilitate the job, such as computers, internet connection and vehicles: motorcycles, a car and bicycles.

2.2: Agroforestry activities

Production of seedlings

In order to raise seedlings for the tree planting campaign, 3 tree nurseries has been established and managed by villagers of Mwaya, Kisawasawa and Kanyenja. In these last 2 nurseries, we managed to raise **34.000 seedlings** which have distributed in Kanyenja and Mangula A along the proposed wildlife corridor. In addition other **75.000 seedlings**, which were produced at Mwaya, UEMC and Kiberege prison, have been supplied to farmers of alley cropping and woodlots.



Kanyenja farmers



Kanyenja tree nursery

Sensitization on alley cropping system

From March to August 2020, Associazione Mazingira NGO has continued to conduct technical meetings with alley cropping farmers in villages for sensitizing them on agroforestry and sustainable agriculture. One of the aim of these meetings was to recruit new farmers and encourage them to set aside some of their land to plant trees. The result of these meetings has been the involvement of **40 new farmers in the alley cropping scheme** in Kisawasawa and Ichonde villages. Other meetings have been conducted in schools and on 27th September 2020 in the villages of Mkasu, Kisawasawa and Mhelule with the purpose of pushing farmers to clean their fields and create fire breaks. The result of these meetings has been that all farms were cleared and farmers made fire breaks so as to protect trees from fires.



Transplant and supply of seedlings to farmers

In 2020-2021, Mazingira was able to supply **109.000 seedlings** of various species to plant in alley cropping farms in the villages of Mang'ula 'A', Mang'ula 'B', Mkasu, Kisawasawa, Ichonde and Mhelule. In collaboration with the local District authority **94.494 seedlings were distributed in Ifakara**, following order from district commissioner. All the produced trees were planted in an area of **about 17 acres**, owned by **60 different farmers**.



Farmer study tour to deforested areas

Mazingira organized a study tour to areas facing heavily deforestation at Namwai forest in Mlimba District where **148 farmers** participated and experienced the strong impact on community related to poor environmental conservation.

Monitoring and evaluation of activities

Mazingira conducted monitoring of alley cropping plots and woodlots in the villages of Kanyenja, Mang'ula B, and Mang'ula A and Kiberege prison to check planted seedlings and make follow up to evaluate their growth and state in order to be sure they reach maturity stage.

3.0: RESULTS

3.1: Purchase of seeds and material to establish tree nurseries

Table 5 shows a list of materials supplied to the villages for starting up tree nurseries

Material/ seed bought	Quantity
Polythene tubes	kg 100
<i>Afzelia quanzensis</i>	7
<i>Albizia lebbeck</i>	5
<i>Khaya anthotheca</i>	10

<i>Milicia excelsa</i>	1
Soil	5
Sand	3
Manure	3

Source: Associazione Mazingira office, 2020

3.2: Establishment of tree nursery at UEMC and in villages

Mazingira managed to establish one tree nursery at UEMC premises. This is the main demonstration tree nursery which is managed by Associazione Mazingira staff.

The number of seedlings raised in each village are shown on the table below

In the project tree nurseries **203.470 seedlings** were raised in the proportions shown on table below.

NO	Name of village	Raised seedlings
1	Mwaya Darajani	17.000
2	Kanyenja	17.000
3	UEMC	37.500
4	Kisawasawa	37.500
5	Kiberege prison	94.470
Total		203.470

Source: Associazione Mazingira, 2021

Note: Seedlings produced in Kiberege prison (94.470) were planted in Ifakara following the directives of District commissioner.

4.0: Periodic meetings with farmers of alley cropping and woodlot

The NGO continued to conduct technical meetings with alley cropping farmers. The aim of the meetings was to promote the project, recruit new farmers, technically train farmers and encourage them to take aside some of their lands to plant trees and practice sustainable agriculture. These meetings resulted in the recruitment of **40 new farmers** practicing alley cropping in Kisawasawa and Ichonde villages.

4.1: Supplying seedlings to plant in agroforestry and woodlot plots

Mazingira supplied **109.000** trees of various species to plant in agroforestry and woodlot farms in the villages of Mang'ula 'A', Kanyenja', Mkasu, Kisawasawa, Ichonde and Mhelule. The trees were planted in an area estimated to be about 17 acres, owned by **60 farmers**.

Sustainable energy efficient technologies (SEET) promotion and production

Apart from tree planting Associazione Mazingira has continued to promote sustainable energy technology to the community around Udzungwa Mountain National Park. The sustainable energy efficient technologies (SEET) have included construction of mud cooking stoves in 10 villages of Msufini, Mkula, Sonjo, Mang'ula A, Mang'ula B, Mshikamano, Mwaya, Ichonde, Kisawasawa and Mkasu. 4.589 families have been visited for the promotion of SEET. A total of 1.181 mud stoves have been constructed and 941 (80%) are still in use today. Almost 2.5 tones of briquettes have been produced and sold to tourism camps, food venders and individual households as source of energy instead of firewood from the forests.

Promotion of SEETs through cooking and public meetings

21 sensitization events of cooking house to house and in village groups have been conducted by Mazingira staff to promote Mayon Turbo Stoves, wonder baskets and briquettes. The association also attended **3 village meetings**, organized **one environmental event** and **1 school exchange experience** to promote SEETs.

5.0: SUMMARY OF ISSUES OF THE ACTIVITIES

i. Car problem

One of the main problem the association is facing at the moment, it is the lack of a car. In 2020/2021 Mazingira 4WD pick-up Toyota Hilux was not used due to its very bad conditions. This jeopardized many activities, especially the seedling and material supply to farmers on time, that required long and frequent journeys. To avoid to stop the activities completely, Mazingira had to share with UEMC one vehicle with all the related difficulties. It is indeed Mazingira priority to find funds to purchase a new car.

ii. The corona pandemic (Covid 19)

This forced the association to postpone some project activities because health protocol had to be observed to avoid spreading the disease through congregation.

6.0 PLANS FOR THE NEXT SIX MONTHS

In the next six months Mazingira will continue its standard activities such as teaching in schools, twinning, tree planting campaign and sustainable agriculture promotion, tree nursery and agroforestry implementation, management and monitoring, income generating activities, SEETs construction and promotion.

Meanwhile there will be other activities and events to implement such as organizing or attending school events, village meetings and the world environmental day.

There will also be sensitization campaigns through radio programs, cinema night's film projections in villages, by using the videos produced in Swahili by the association.

Finally, Mazingira intends to strengthen cooperation with government and non government institutions, planting trees in public places like roads, schools, Kiberege prison and hospitals.

No.	Activity	Responsibility	Time of implementation (Months) 2021					
			1	2	3	4	5	6
1	Monitoring of project activities	AM NGO	x	x	x	x	x	x
2	Tree planting in private farms, government institutions and along the road (Hospital, Kiberege prison, schools, Churches and Mosques)	AM NGO		x	x	x		
4	Radio campaign and video shows for environmental conservation	AM NGO		x	x			
6	Meet income generating groups and revive beekeeping groups back into production	AM NGO		x	x			

7.0: RECOMMENDATION AND ADVICE

It is recommended that funds for various activities are released on time. The planned activities like those with deadlines should be implemented within allotted time. Since tree planting campaign is gaining recognition both at community and at government level and is increasing its local impact, it is crucial to find funds to burst it since the land is available and willingness of community to plant tree is becoming more and more positive. Lastly, the main priority to support Mazingira work is to secure funds to purchase a new car.

BUDGET FOR IMPLEMENTATION OF SOME ACTIVITIES OF THIS REPORT

ACTIVITIES	UNIT COST in TZS	NO OF ITEMS	TOTAL COST
Tree nursery materials	12.900.000	4	51.600.000,00
Sensitization activities	lump sum	4	3.000.000,00
Farmer trip to study tour	80.000	148	11.840.000,00
Book printing	40.000	220	8.800.000,00
Salary for tree nursery attendants (12 attendants x 6 months)	200.000,00	72	14.400.000,00
Total costs			89.640.000,00
Exchange rate 1 Euro/2700 TZS			33.200,00

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