

INTRODUCTION:

Action for Positive Change is a Community Based Organization operating in Chipata District of the Eastern Province of the Republic of Zambia. It is located at NAPSA Building, along Umodzi Highway, in Room LG 13 & 14.

The Organization received financial assistance to support its activities on mitigation of the environment and Climate Change.

This report is a consolidation of the documented works that were carried out by the project that started in October 2013 and came to an end on June, 30th 2014. The report comprise of three parts. Part A covers the title for the project, the goal, project objective, the award, project sponsors and the activities that were implemented under the award during the ten months period. Part B comprise of success stories narrated by the project beneficiaries showing the impact that the project had in their lives, and Part C shows the materials that were produced and used under the award .

PART A:

1. PROJECT TITLE:

The project name that the organization undertook was called, " SUSTAINABLE FOREST MANAGEMENT THROUGH FUEL EFFICIENT COOK-STOVE PROJECT ".

2. PROJECT GOAL:

The goal for the project was to contribute towards the reduction of deforestation and land degradation through promotion of community tree planting, low cost fuel efficient cook-stoves and behavior change education on Environmental Protection.

3. PROJECT OBJECTIVE:

The main objective of the project was to improve the management of the forest resources through behavior change activities and increase access to Energy-Saving technologies by distributing fuel efficient cook-stoves to 1000 households of Chipata District.

4. AWARD NUMBER: AID-611-F-13-00003.

5. SPONSORING USAID OFFICE:

The project was sponsored by the United States Agency for International Development (USAID) through its Various Incentives Grant Opportunities and Rewards (VIGOR).

6. ACTIVITIES:

In order to achieve the above objective, the Organization conducted a number of activities as outlined below:

TRAINING OF MASONS.

A full day training of masons was conducted to equip them with basic skills in bricklaying especially in construction of the cook-stoves. A total of 25 masons were trained.





✚ INSTALLATION OF 1,000 COOK-STOVES IN 1,000 HOUSEHOLDS.

A total of 1,000 cook-stoves were made in 1,000 different households. Of these, 292 beneficiaries were female headed households while 708 were male headed households. The cook-stoves are currently in use and beneficiaries have greatly appreciated the support that they received from the American people. By mid June 2014, 76.1% of the 1000 households distributed with the cook-stoves had adapted to the new technology.

Hereunder are some of the Cook-stoves that were made during project implementation.







CONDUCTING 40 BEHAVIOR CHANGE EDUCATIONAL CAMPAIGNS THROUGH THEATRE PERFORMANCES.

A total of 40 behavior change educational campaigns were conducted in 40 villages on forest conservation and protection through theatre performances. These educational campaigns were conducted to assist members of the community to understand the important roles that trees played to the environment. Below are some of the performances that were conducted.





CONDUCTING 10 COMMUNITY-WIDE BEHAVIOR CHANGE DISCUSSIONS:

The 10 behavior change discussion meetings that were conducted by the project exclusively looked at changing the mindset of the community members on the need to protect the environment and conserving the existing forests. The meetings also looked at risks of deforestation, importance of tree planting and other sources of Income Generating Activities (IGA's) as opposed to charcoal production and also the need for all households who benefited from the cook-stoves to be using them continuously.





POLICY FORMULATION:

10 Policies were formulated in ten different villages which benefited from the cook-stoves. The policies basically focussed on forest conservation and how to manage the collection of firewood from the forest.





PART B

SUCSESSES STORIES:

To show case the impact of the project in the livelihood of the beneficiaries, three different success stories were picked from the communities and here is what they had to say.

SUCCESS STORY # 1

THE KILLER IN THE KITCHEN TAKES A BOOT

This story is from a man whose household benefited a cook-stove from “Sustainable forest management through fuel efficient cook-stove use project.”When he was interviewed about the benefits of the project, this is what he had to say:

‘My name is John Ngoma. I was born and brought up at Kambani Village in Chipata District “Before I go further, I want to thank the American people for extending their assistance in the villages.The stoves that we are proud of today would not have been possible if it were not from their generous support.

As often said “knowledge is power”, indeed,” am one of the people who lacked this essential power on risks of deforestation until when Action for Positive Change (APC) a Community Based Organization came in with interventions of behaviour Change campaigns through drama and community meetings on protection of the environment that I came to realise the importance of the forests.

I used to cut trees for charcoal production for selling and was able to support my family out of the business. Unfortunately, the business now has completely gone down because community forests where trees for Charcoal production are cut have degraded.”

John added that,”I was touched to learn that all that I was doing contributed to forest degradation leading to change in rainfall pattern, reduction in crop yields and scarcity in firewood and many other effects that come with it.”

John further added that, the Chief and his indunas (Chief Assistants), village headpersons, the people in the village (beneficiaries), officers from APC, including dept of forest played an important role to see the project succeed.

Mr Ngoma explained that the project had brought a number of changes in the area and outlined them as follows:

- The project has changed our lives leading to a better and healthier community. He added that, previously a number of women in the community used to suffer from chest infection due to inhaling of poisonous smoke from open fires which is not the case today.
- People's behaviour in the community has drastically taken a new turn. Indiscriminate cutting down of trees which used to be the order of the day, is no longer the case now. There is a sign of positive change as people have come to realise that life could be difficult without trees.
- The cook stoves have reduced the hours taken by the women to collect firewood as they just rely on small dead woods for cooking unlike in the past where big logs were required for one to cook.
- The cook-stoves are highly being promoted and almost everyone in the village is using it for their cooking. People have easily adopted to the new technology due to its environmentally friendly, economical factors and its convenience to use, to mention but a few, have contributed to high adoption rate.
- Community laws have been established providing guidance to the people on the appropriate way of managing the forest.
- Slowly Vegetation cover is coming up.
- The knowledge that people learnt on Environmental protection and conservation through tree planting would go a long way.

Down here is the photo for John Ngoma



SUCCESS STORY # 2

“OUR NEW VILLAGE STOVE”

This is one of many stories that people have talked about the uniqueness of the project in the area. The project in mention is entitled “Sustainable Forest Management through fuel efficient cook-stove use project”. The project was funded by the American Government through United States Agency for International Development (USAID) through its Various Incentives Grant Opportunities and Reward (VIGOR).

Here, Malingose Mazyopa of Mnkwa village narrates her story on the project. As indicated above am one of the people who benefited from the project through the messages that I learnt during one of the project activities that I attended namely, Theatre performance that was held in our village by Action for Positive Change (APC). The core message I got was “dangers of deforestation, need to plant trees “and that each one of us should be ambassadors of the message.

Truly ,I saw sense in the message when I critically looked at our environment .I felt guilty and depressed on the matter because I was about to go into charcoal production business and had already put aside some bit of money to start.However,from the messages that I received,I came to realise that my proposed business was not a viable one and so had to think of other buinesses to do.I also saw the need to promote and encourage my fellow community members to stop destroying trees and encouraged everyone to have a zeal of protecting what we have and also to create avenues of mending what we had destroyed such as tree planting and continued use of the cook-stoves to curb further escalation of forest degradation and deforestation.

Other activities that followed like community behavior change meetings and formation of community policies, were all centred on people to develop a sense of ownership and have a feel of conserving the environment.

Speaking about the people who played a role in the project she stated that “Sewo”(meaning the targeted group0, “ Mafumu amunzi,” (meaning village headperson) ,“etiletela nchito iyi “ (service providers -APC) and “ Amfumu andodo” (the chief) all played a role for the project to reach this far.

- Unlike other projects we’ve seen in the past, this particular project has been so unique because each beneficiary has something to point at (the cook-stove).
- There has been an Improvement in womens health especially chest pains which used to be common before cook-stoves were brought to us.
- The project has brought relief to women from the burden of fatching firewood which has reduced from 3 times per week to only once per week.
- The technology is environmentally friendly, produces little or no smoke.
- There is positive change in peoples behavior towards conserving nature.

MALINGOSE MAZYOPA.



SUCCESS STORY # 3

“SELF TRAINED COOK-STOVE MASON – A STORY OF REAL BEHAVIOR CHANGE”.

This is a story that one of the project beneficiaries narrated in her capacity as a self trained cook-stove mason.

First the woman started by introducing herself as Bertha Zulu of Mnutwa village about 35km North of Chipata. Bertha narrated her side of the story as follows.”I am a peasant farmer growing Maize, sunflower and groundnuts for my livelihood. I take myself as an unlucky woman because as I was out when Officers from Action for Positive Change (APC) came to our village for their campaigns on environment and making of the cookstoves in the month of November, 2013. This was the time I had gone to Chipata General Hospital to nurse my sick child. When I came back I was surprised to see what my friends were using during preparation of their meals and I admired. My fellow women informed me that the people that were making the cook-stoves had already left for Chitandika (40KMs from our village). When I took a closer look at one of the cook-stoves from my neighbor, I saw that it was not something very difficult to make and I decided to make one for myself at my house as I saw that my friends were using little firewood when cooking and that the same cook-stoves produces little smoke. Upon being told the number of bricks required, I thought of using the old bricks from my previous house to make one. The first one I made was not good enough and I decided to dismantle it and made a new one and that’s the one I’m using right now for cooking.

The cook-stove has really reduced my firewood collection hours unlike in the past before I made this cook-stove. These cook-stoves uses even bamboos, maize cobs, maize stalks and even cow dung when cooking and reduces the pressure on forest especially cutting down of trees for cooking.

I now call myself a lucky person and also a beneficiary from the project as I knew nothing about the existence of such cook-stoves before Action for Positive Change came to our village. Ms Bertha Zulu further narrated that some of the benefits that these cook-stoves brought to their community are as follows;

- Time to go in the bush to collect firewood has drastically reduced as only small dead wood is collected for cooking.
- Though its too early to talk about regeneration of the forests, she expressed hope that the project would help in forest regeneration as people have stopped cutting down trees for cooking..

- The rules (Meaning policies) that were made will help in reducing the number of trees being cut down in the area.
- Women will no longer be suffering from smoke related diseases such as coughs.
- It reduces the dangers of children getting burnt as a result of falling on fire and,
- Maintenance is easy and cheap unlike those cook-stoves that require kerosine and/or gas for cooking which is expensive.

Hereunder is the Picture of Ms. Bertha Zulu maintaining her cook-stove.



PART C

MATERIALS USED:

In a bid to provide accurate and consistent information to the project beneficiaries and the general public at large, Action for Positive Change was compelled to come up with materials to be used during the implementation of the project. In view of this, different materials were designed and used by the project. These include:

(a) TRAINING MANUAL FOR MASONS



FUEL EFFICIENT COOK-STOVE

MASONS

TRAINING MANUAL



This Fuel Efficient Cook-Stove Masons Training Manual is made possible by the generous support of the American People through the United States Agency for International Development (USAID). The contents in this manual are the responsibility of 'Action for Positive Change' and do not necessarily reflect the views of USAID or the United States of America Government.

PREAMBLE:

Action for Positive Change is making Fuel-Efficient Clean Cook-stoves in Eastern Province of Zambia particularly in Chipata District. This is made possible through the generous support from the American People through United States Agency for International Development (USAID) through its Various Incentives Grant Opportunity and Rewards (VIGOR) under award Number: AID-611-f-13-00003 under the project name: Sustainable Forest Management through Fuel Efficient Cook-stove use.

The Fuel Efficient Cook-stoves made by Action for Positive Change are sustainable and locally produced fuel efficient Cook-stoves that are made out of just 28 mud bricks and a mud mortar mix. The Fuel-efficient Cook-stove can be used anywhere and by anyone who uses firewood as a means of fuel energy for cooking and heating.

This type of Fuel-Efficient Cook-stoves is the most suited Fuel-Efficient Cook-stove designed to help alleviate the sufferings that most women in rural areas are going through in as far as fetching of the firewood is concerned.

Why is it important for people in rural areas to start using these Fuel Efficient Cook-stoves?

Here are some of the reasons why:

- **Sustainability:** The Fuel-Efficient Cook-stoves are made from 100% local materials (mud, sand, Cow-dung, water), making it a completely sustainable solution for the most poor households.
- **Simplicity:** It takes just about one hour to make One Fuel-Efficient Cook-stove, and the stove can be used as soon as it dries.
- **Durability:** This type of Fuel-Efficient Cook-stove is strong and durable, and any damage to it can easily be repaired by the individual using it simply by adding additional mud mortar.
- **Effectiveness:** This type of Fuel-Efficient Cook-stove reduces household wood use from three or four bundles of wood per week to just one, creating up to about 66% wood savings.
- **Safety Benefits:** The Fuel-Efficient Cook-stove contains the fire within the stove at the side of the kitchen, so women and children are less likely to incur serious burns compared to a traditional three-stone open fire.
- **Health Benefits:** The Fuel-Efficient Clean Cook-stove produces considerably less smoke than the traditional three-stone open fire, so women and children inhale less smoke and are less likely to have smoke related illnesses.
- **Quality of Life:** Fuel savings mean that women make just one to three hours trip to collect firewood each week, thereby saving some good hours of hard labour every week!
- **Culturally Appropriate:** This type of Fuel-Efficient Cook-stove has a double fire-wood burner, making it perfectly suited to Eastern Province of Zambia cooking methods of preparing Rice or Nshima in one pot, and vegetables or meat in another pot, simultaneously.
- **Low-Tech:** This type of Fuel-Efficient Cook-stoves requires very low-technology thereby making it a realistic solution for the people of the Eastern Province of Zambia whose poverty levels are so high.
- **Inexpensive:** The materials to build these Fuel-Efficient Cook-stoves are locally available and are sometimes free of charge; the only cost a member of the community can incur is labour, and

simple building tools comprising of a bucket, pot, and trowel, which can be used again and again.

- **Knowledge Sharing:** Anyone with the knowledge can build their own Fuel-Efficient Cook-stove and the technology can easily be replicated to other areas without really looking for experts to do it for them. It is for this reason that Action for Positive Change intends to train the people in all the villages where these cook-stoves will be made.

Why This Is Important

Deforestation and Forest Degradation is one of the greatest issues facing Africa and Zambia in particular today. The effects of deforestation and Forest degradation are tangible and felt by everyone in Zambia: less rain, hotter climates, soil erosion, and drought bring famine, poverty, and starvation. One of causes of deforestation is the high demand for wood used for cooking fires. In Zambia, about 70% of the population use wood or charcoal for cooking every day and almost about 100% of those in rural areas entirely depend on wood or charcoal. The Fuel-Efficient Cook-stove being promoted by Action for Positive Change reduces the demand on Zambia's forests, as the cook-stove uses up to 66% less wood than a traditional three-stone open cooking fire. Just one Fuel-Efficient Cook-stove will save hundreds of trees in its lifetime. (Imagine the savings if everyone in Zambia used one!)

This type of Fuel-Efficient Clean Cook-stove is also important to healthcare. According to the World Health Organization, it is estimated that about 1.6 million people die prematurely from smoke inhalation every year — that's more people than those that die of malaria! These effects are most poignant for women and children who spend most of their day around the fire. This type of Fuel-Efficient Clean Cook-stove reduces smoke inhalation as it produces substantially less smoke and is located at the side of the kitchen, keeping families out of the line of the smoke during their day-to-day activity. These Cook-stoves also reduces the chance of incurring serious burns: 60% of those families surveyed in Chipata said they had at least one family member who had suffered serious injury and/or burns from clothes catching fire or from falling into a traditional three-stone open fire.

Lastly, Fuel-Efficient Cook-stoves are important because as they are expected to improve the quality of life for women and children in Chipata District. Culturally, women in Eastern Province of Zambia have a huge amount of responsibility, including the cooking and collecting of firewood. For a typical Zambian woman, collecting enough firewood for the family can require three or four separate trips each week, each trip taking between three to five hours! The Fuel-Efficient Cook-stove reduces that labour by up to 10 hours per week, drastically improving the quality of life for women who have it quite tough as the situation is currently.

Step by Step guide



What you need:

Bricks: 26 small bricks (unburnt or burnt) (make 30 bricks) ideal size 22.5cm x 11cm x 6.5cm

Equipment: 1 x 20 litre bucket, 1 x 5 litre cooking pot, 1 x hoe, 1 x trowel

Mud mortar mix: 7.5 litres clay soil, 7.5 litres sandy soil - mix with about 5 litres of water



Prepare mud mortar mix - Use 5 litre cooking pot to measure soil and water. When mixed place in bucket



Prepare and level the floor

Fuel Efficient Cook-stove

- Less Firewood - Less Smoke - Cooks Quickly
- Safer For Children - More Space in The Kitchen
- Cleaner (less ash) - Two Cooking Fires



Place 9 bricks in position - Remove two bricks as shown and dig 2 holes half a brick deep (on concrete floors remove these bricks)



bricks - 2 bricks are half buried as shown (on concrete floors use 7 bricks - the floor will be the base of the fire)

A P C Action for Positive Change



Apply mud mortar mix between and on top of the bricks, then place bricks on the next level



6 bricks + 2 half bricks



Spread a thin mud mixture with your hands to all outside walls and top surface



Form 8 large mud pot rests by hand and fix onto the top of the cook-stove slightly overlapping the fire hole as shown above



Finish off the pot rests and show the householder how to make and maintain them (make sure pot rests are level)



Form 8 large mud pot rests by hand and fix onto the top of the cook-stove slightly overlapping the fire hole as shown above



Finish off the pot rests and show the householder how to make and maintain them (make sure pot rests are level)



Place 2 bricks outside the fire holes – this keeps ash in the

fire hole and sticks can rest on the brick. Leave the fuel efficient stove to dry fully (2-3 days) before using.



The Fuel efficient Stove uses less firewood cooks quickly and stays hot for longer - only use small pieces of wood



Regularly maintain the fuel efficient stove - Re-plaster mud onto the outer surface and re-maintain the pot rests every 2 - 4 weeks

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(b) Theatre script



COMMUNITY-WIDE BEHAVIOR CHANGE

EDUCATIVE THEATRE PERFORMANCE SYNOPSIS



This theatre Performance Synopsis is made possible by the generous support of the American People through the United States Agency for International Development (USAID). The contents in this synopsis are the sole responsibility of Action for Positive Change and do not necessarily reflect the views of USAID or the United States of America Government.

EDUCATIVE THEATRE PERFORMANCE SYNOPSIS

TITLE: Mudzi Wathu (Our Village)

Scene 1: Introduction Stage

- ❖ In an attempt to change the mindset of people in communities of Chipata District on charcoal burning, illegal exports of timber and indiscriminately cutting down of trees for tobacco curing, Headman Chimbiya calls for a meeting to address the issue at hand.

The curtain opens with the sounding of a drum by one of the indunas. Headman Chimbiya sends induna Gezani to call all the people in the village; children, youths, women and men to meet at the usual traditional Msoro tree. Gezani goes from one end of the village to the other sounding the drum as a sign of the Headmans call, “Msonkhano! Tikumane Msonkhano!” shouts Gezani (come for the meeting, come).

Scene 2: Conflict Stage (At the house of notorious Dauzeni)

- ❖ Dauzeni doesn't like attending any village meeting whenever he is called upon and this time he doesn't want his wife, Amake Suzio to attend as well. This is because rumour has been going round the village and the surrounding communities that there are Laws being enforced to stop people from cutting down trees for charcoal burning and any other purposes. As such, Dauzeni is against the idea because charcoal burning is his major source of income. Dauzeni stopped engaging in agricultural activities when he discovered charcoal burning and massive cutting down of trees for illegal export to tobacco farmers in Malawi as a source of income. He uses money from this business for his promiscuous activities such as multiple sexual partnerships and alcohol abuse. The news of disengagement from this venture disturbs him as such he runs back home from his charcoal burning base to go and stop his wife from attending the meeting.
- ❖ He finds his wife Amake Suzio almost ready to start off for the meeting. An argument elapses as Amake Suzio tries to reason with him. She explains some of the benefits of preserving nature and disadvantages of forest degradation and deforestation. Dauzeni is very annoyed when Amake Suzio tells him that she would not listen to a lazy man who uses money on excessive beer drinking and smoking at the expense of the community. Outside the house, wife and husband start fighting and there is no one to stop or separate them as all the people were already at the meeting at the Msoro tree. Amake Suzio overpowers her husband Dauzeni, he falls down and

his wife fall on him. She hits him hard and then escapes the scene running towards the Msoro tree where people gathered, shouting on top of her voice “nafwa ine, nafwa ine (Help! Help! He will kill me!), as the husband followed behind with an axe raised above in his hand. Dauzeni shouts also “panama iwe, nati panama iwe” (Stop! You! Stop!).

Scene 3: Conflict Resolution Stage (At the meeting; Msoro tree)

- ❖ Headman Chimbiya welcomes his fellow tribes’ men from the neighbouring villages and all the people attending the meeting. And before he finishes his remarks everyone at the meeting hears the persued Amake Suzio shouting for help, behind her is the notorious Dauzeni with an axe in his hand raised high. Almost everyone at the meeting scampers as Amake Suzio Jumps over above the head of Headman Chimbiya who falls off his chair. There is total confusion as the people at the scene do not know who to help and rescue, the Headman is down on the floor, Amake Suzio is screaming for help, notorious Dauzenis’ axe is almost ready to strike whoever came to him or tries to rescue his wife. Here, there is a targe of war. Notorious and uncompromising Dauzeni is manhandled by the strong youths and men present. Order is restored and the Headman takes his role of facilitating the meeting in a very holistic approach with the help of well informed men and women of the community. This is where issues such as the causes and dangers of forest degradation and deforestation, benefits of tree planting and use of cook stoves are discussed. Here everyone including notorious Dauzeni is well informed and all the myths and misconceptions surrounding preservation of nature are cleared.

Scene 4: Reunion Stage (At the house of Dauzeni)

- ❖ The family is now reunited. The couple is happy and now Dauzeni and Amake Suzio become the new ambassadors against forest degradation and deforestation. Dauzeni now begins to use the phrase which states that “**Where there is no knowledge, people perish**”. As a couple they begin to influence reduction in cutting down of trees through promotion of Low Cost Energy Saving Stoves (LCESS), regeneration of vegetation and increased area under forest cover. The two ambassadors encourage family members, friends and entire community to observe the enforced traditional Laws that support and help preserve forest resources. The play ends with a drum beat coupled with a song depicting the wonders of preserving nature. Wife and husband (Dauzeni & Amake Suzio) dance together as the curtain closes.



.....*End of Synopsis*.....

This synopsis has been organized by Action for Positive Change with support from United States Agency for International Development (USAID) through its Various Incentives Grants Opportunities and Rewards (VIGOR).

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(c) Brochure

GROUND

A positive change is a community based organization in eastern province of Zambia. The organizationally registered with the registrar of societies in the of Zambia under registration certificate 2-16-602.

MISSION

People whose communities are focused on sustainability of the population of the through tree planting, conservation and protection.

LIVE

Identify the degraded environment in Chipata district appropriate and sustainable environmental rehabilitation mechanisms that contribute to mitigation of forest fires, deforestation and global warming through sustainable environmental conservation and preservation, and promotion of low cost cook-stoves

have towards education on deforestation and forest fire through promotion of the use of the fuel efficient stoves, tree planting and forest behavior change.

TITLE

of the project being implemented is
ENABLE FOREST MANAGEMENT THROUGH
EFFICIENT COOK-STOVE USE

NG OF MASONS



To achieve the project goal and objective the organization trained 125 masons identified from different communities to be trained in cook-stove making. This was done for sustainability sake that the knowledge acquired could go on within the communities even after the project came to an end.

The cook-stove uses less firewood. By consistently and continuously use of the cook-stoves by members of the community it would greatly contribute to the reduction in massive cutting down of trees for firewood.

BEHAVIOR CHANGE CAMPAIGN DISCUSSION

Behavior change campaign discussions have been designed with the goal of raising awareness of behavior change to members of the community as a preventive strategy against the indiscriminate cutting down of trees for charcoal production and firewood for sale.



The behavior change campaign discussions would be conducted in 10 communities and shall be led by the project program officers. As part of the campaign, specific behavior patterns would be promoted including forest conservation and preservation, forest behavior change, protection of tree plantations in communities, discouraging community members to stop the use of indiscriminate cutting down of trees, promotion of use of the efficient cook-stoves and encouraging communities to formulate laws (Policies) on Protection of the forests.

THEIR PERFORMANCE

The Theatre Performance Group was identified from the communities to motivate members of the community on the benefits of using cook-stoves. The importance of environmental protection and conservation would be highly emphasized to community members in order to effectively deliver behavior change messages.



USAID
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT



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DISCLAIMER

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BACKGROUND

Action for Positive Change is a community based organization operating in eastern province of Zambia. The organization is legally registered with the registrar of societies of the Republic of Zambia under registration certificate #ORS/102/6692.

ORGANIZATION MISSION

Chipeta District whose communities are focused on sustainable development of the forest conservation and protection.

OBJECTIVE

To rehabilitate the degraded environment in Chipeta district through appropriate and sustainable environmental rehabilitation mechanisms that contribute to mitigation of forest degradation, deforestation and illegal logging through education on environmental protection and preservation, tree planting and protection of low cost cook-stoves.

GOAL

To contribute towards cessation on deforestation and forest degradation through promotion of the use of the fuel efficient cook-stoves, tree planting and forest behavior change campaigns.

PROJECT TITLE

THE NAME OF THE PROJECT BEING IMPLEMENTED IS "SUSTAINABLE FOREST MANAGEMENT THROUGH FUEL EFFICIENT COOK-STOVE USE"

TRAINING OF MASONS



...examination raised 25 masons identified from different communities to be trained in cook stove making. This was done for sustainability sake that the knowledge acquired could go on with the communities even after the project came to an end.

The cook-stove uses less firewood. Its consistent and continuous use of the cook stoves by members of the community, it would greatly contribute to the reduction in trees being cut down as trees for firewood.

BEHAVIOR CHANGE CAMPAIGN DISCUSSION

Behavior change campaign discussions have been designed with the goal of raising awareness of behavior change to members of the community as a preventive strategy against the indiscriminate cutting down of trees for charcoal production and firewood for sale.



The behavior change campaign discussions would be conducted in 19 communities and shall be led by the project program officers. As part of the campaign, posters on behavior patterns would be developed indicating forest conservation and preservation. Forest behavior change promotion of tree planting to contribute, discussion community members to stop the use of indiscriminate cutting down of trees, promotion of use of the efficient cook-stoves and encouraging communities to form and have (Police) or Protection of the forests.

THE EARLY PERFORMANCE GROUP will learn from the communities to motivate members of the community on the benefits of using cook-stoves. The importance of environmental protection and conservation would be highly emphasized to community members in order to effectively deliver the favor of change messages.



USAID
ROOM 1111 - 11th FLOOR - 2001

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d) ENVIRONMENTAL MONITORING AND MITIGATION PLAN:

Before the project commenced with the implementation of the activities, the Organization prepared an Environmental Monitoring and Mitigation Plan which was aimed at providing the project as a guide to ensure that the activities did not compromise with the EMMP but to entirely work towards achieving its goals. The plan was approved by USAID and below is a copy of the document.

Activity	Mitigation measure(s)	Monitoring indicator(s)	Monitoring and Reporting Frequency	Party(ies) responsible.
1) Extracting clay for the installation of clay cook stoves at households	<ul style="list-style-type: none"> a. Soil will not be extracted from river banks as to avoid siltation of rivers and erosion b. Extraction of clay soils will be located in areas where clay soil extraction has previously taken place or a place where construction is to occur that clay soil is available that does not include at the side of rivers, in forests, or in locations needing to be cleared of vegetation. c. Where possible, old ant hills and termite mounds will be used to harvest clay. d. When possible, pre-fabricated clay bricks should be used as opposed to producing more bricks. 	<p># of reports of clay soils being extracted from the sides of rivers, in forests, or in areas where vegetation was cleared</p> <p># of clay bricks re-used.</p>	<p>Monitoring to occur throughout the process of clay soil extraction.</p> <p>Reporting to occur at the end of clay soil extraction.</p>	VIGOR Project Manager, Fackson Zulu
2) Collection of firewood for clay brick burning	<ul style="list-style-type: none"> a. Dead wood and tree branches should be first identified for firewood. b. When necessary, trees to be cut are to be designated by communities and if possible in coordination with the District Forestry Office. As few trees should be cut down as possible. 	<p># of trees cut down for burning clay bricks</p> <p># of dead /fallen trees used for burning clay bricks</p> <p># piles of branch or twigs used for burning clay bricks</p>	<p>Monitoring to occur throughout the process of clay brick burning.</p> <p>Reporting to occur at the end of clay brick burning.</p>	VIGOR Project Manager, Fackson Zulu
3) Cook-stove use – to avoid cutting down trees for food preparation	<ul style="list-style-type: none"> a. Communities are to be sensitized as to the need to preserve trees and use branches of trees while leaving the tree alive. 	<p># of Household Daily Firewood Use forms indicating use of cookstoves over time.</p> <p># of reports of</p>	<p>Monthly monitoring of Household Daily Firewood Use forms.</p> <p>Monthly checkups on communities to find</p>	VIGOR Project Manager, Fackson Zulu

	b. Households are to use a Household Daily Firewood Use Form indicating the day-to-day use of the cookstoves	community members cutting down trees to use firewood in their cookstoves	out if trees are being cut down for firewood uses for cooking in the cookstoves.	
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APPROVAL OF THE RECOMMENDED ENVIRONMENTAL MONITORING AND MITIGATION PLAN:

CONCURRENCE:

USAID/Zambia Mission Environment Officer: _____

Date: _____

DOCUMENT TITLE:

Environmental Mitigation and Monitoring Plan for Action for Positive Change's VIGOR Activities

CLEARANCE:

Executive Director: **Fackson Zulu**

Date: **20th June, 2013.**

PREPARED AND REPORTED BY:

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