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Kinango Youth Environmental Project (KIYEP)

1.0 Project Overview

1.1 Name of Project: Kinango Youth Environmental Project (KIYEP)

1.2 Organization in Charge of Project Implementation: ClimateCare Community Based Organization

1.3 Location: Kinango Sub County

ClimateCare CBO, formed and registered in 2023, is dedicated to addressing the various social, economic, and environmental challenges facing Kinango Sub County residents. Located in Kinango Constituency at 2nd Floor Bebora Plaza, the area experiences sporadic rains barely sufficient for floral regeneration. The dominant vegetation includes indigenous acacias and other Savannah shrubs. Overgrazing and charcoal burning have exacerbated environmental degradation.

1.4 Project Introduction

The proposed project aims to initiate positive environmental change in alignment with Goal 13 of the Sustainable Development Goals, calling for urgent action to combat climate change and its impacts. The Kinango Youth Environmental Project focuses on agroforestry and indigenous tree planting, improving the environment of the semi-arid Kinango and adjacent Samburu Sub County. A tree nursery will be established to raise indigenous and agroforestry seedlings for reforestation. Once ready, seedlings will be distributed to the community for planting.

1.5 Kinango Municipality Tree Planting

As Kinango Municipality develops, it brings numerous benefits but also environmental challenges. Integrating tree planting initiatives into the urban landscape addresses these challenges:

1. **Air Quality Improvement:** Trees absorb pollutants like carbon dioxide, sulfur dioxide, and nitrogen oxides, releasing oxygen and improving air quality.
2. **Temperature Regulation:** Trees provide shade and cool the environment through transpiration, mitigating the urban heat island effect and reducing the need for excessive air conditioning.
3. **Climate Regulation:** By providing shade and cooling effects, trees help regulate the local climate, improve comfort, and contribute to energy savings.

1.6 Project Justification

Kinango Youth Environmental Project will be implemented in an area characterized by scanty trees, mainly acacias and balanites, which have been largely wiped out by charcoal burners. The open areas need trees to regulate the arid microclimate.

a. Project Goal and Objectives

- **Goal:** Raise 30,000 seedlings for planting with 12 months.
- **Objective:** Raise 15,000 indigenous and agroforestry seedlings for planting and distribution each rainy season, totaling 30,000 seedlings across two seasons.

b. Anticipated Results

Within each planting season, 15,000 soil-friendly seedlings will be planted.

2.0 Methodology

Phase 1:

a. Water Infrastructure

- Digging and laying pipes.
- Setting up a water stand using concrete and a plastic water tank.

b. Nursery Setup

- Site preparation, including digging and ground leveling.
- Setting up the tree nursery.

Phase 2:

a. Seedling Planting

Transplanting 30,000 seedlings, starting immediately upon project commencement, with a target of planting 2,500 seedlings per month.

b. Incorporating Fruit Trees

Grafted fruit tree seedlings like mangoes, citrus, papaya, hass avocado, and passion fruit will be incorporated to generate income for sustaining the project.

3.0 Sustainability

By the end of the second phase, the project aims to be fully self-sustaining, meeting operational costs through the sale of fruit tree seedlings.

4.0 Potential Impact

Trees play a major role in economic and environmental development by providing employment (management of the tree nursery and bookkeeping), income (potential carbon credits using the Plan Vivo program), water catchments, soil enrichment, and stabilizing soil against wind and runoff.

5.0 Work Plan

Estimated Project Duration: 12 months

Objective, Activities, Time Frame, Resources, Partners, and Indicators

| Objective | Activities | Time Frame | Resources | Partners | Indicators |
|--|---|------------|---|--|---|
| Nursery site preparation | Digging and ground leveling | 1st Qtr | Levelling boards, spirit level, hoes, rakes, spades, wheelbarrows | MOA, NEMA, volunteers | Level ground |
| Planting of seeds | Filling poly tubes/bags, direct sowing, arrangement | 2nd Qtr | Poly tubes/bags, watering cans, wheelbarrow, pipes | ClimateCare members | Successful germination |
| Transplanting | Pricking out in poly tubes/bags | 2nd Qtr | Manure, poly bags, cans, wheelbarrows | ClimateCare members | Successful bags arrangement |
| General management (weed/pest control) | Fertigation, watering, spraying | Ongoing | Human labor, chemicals (pesticides, fungicides), fertilizers | ClimateCare members | Healthy tree seedlings |
| First planting of 20,000 seedlings | Transplanting | 4th Qtr | - | ClimateCare members, neighboring community, municipality | Successful planting of 20,000 seedlings |

6.0 Key Stakeholders and Partners

- Ministry of Agriculture
- Kenya Forest Service
- Kenya Red Cross
- Partner Donors
- Local Administration
- St. Joseph Catholic Church Water Project

The Management Team will be responsible for planning, implementation, monitoring, and evaluation of the project.

7.0 Monitoring and Evaluation

Seedlings will be monitored for growth rate, survival, and management/protection. The PME team will monitor corrective measures, planning for planting, replacement, weeding, and watering when necessary.

8.0 Organizational Capacity

The Community Development Department Projects' implementation team will oversee the project. The overall responsibility rests with the Management Team of Climate care cbo, with technical and material support from the Kenya Government's Ministry of Environment Forestry Department and the Ministry of Agriculture.

9.0 Accounting Capacity

ClimateCare has an accounting department headed by the treasurer and a volunteer who is an account diploma graduate with experience book keeping will ensure sufficient bookkeeping practices for proper fund utilization.

10.0 Priority Area

ClimateCare will prioritize members' plots of land and a small 1/4-acre piece of land donated by a well-wisher. This will be the initial base for the project.

11.0 Water Access

In Kinango, where water scarcity is a significant issue, local organizations led by Rev. Fr. Anthony Muigai have collaborated to address this problem. The Catholic Church in Kinango pledged support by offering free water for KIYEP's tree nursery project. CARITAS Mombasa, in partnership with the church, sank a borehole on the church premises. However, further funding is required for the water infrastructure to distribute water to the project area and surrounding community, ensuring the success of the tree nursery and addressing household water needs.

12. CONCLUSION

The Kinango Youth Environmental Project (KIYEP) represents a pivotal initiative aimed at addressing the critical environmental challenges faced by Kinango Sub County. By focusing on agro-forestry and indigenous tree planting, KIYEP aligns with the global commitment to combat climate change and foster sustainable development. The project not only aims to improve the local microclimate and biodiversity but also seeks to instill a culture of environmental stewardship within the community.

The phased approach of KIYEP ensures a structured and sustainable progression from water infrastructure setup to tree nursery establishment, seedling planting, and the incorporation of fruit trees. This methodical implementation plan guarantees that each phase builds upon the success of the previous one, ultimately leading to a self-sustaining project that can continue to benefit the community long after its initial phases are completed.

The anticipated results of planting 30,000 seedlings in 12 months, alongside the engagement and education of the local community, underscore the project's potential to create a lasting environmental and socio-economic impact. By providing employment opportunities, generating income, and enhancing the local ecosystem, KIYEP stands as a beacon of hope and progress for Kinango Sub County.

In conclusion, KIYEP is more than just an environmental project; it is a transformative endeavor that empowers the youth, revitalizes the local environment, and fosters a sense of community ownership and responsibility. With continued support and dedication, KIYEP will pave the way for a greener, more sustainable future for Kinango Sub County, setting a precedent for similar initiatives across the region and beyond.

13. Proposed Budget for the Water and Tree Projects.

PHASE 1: Water Access Infrastructure

| Item Description | Quantity | Unit Cost (KES) | Total (KES) | Special Comments |
|---------------------------------------|----------|-----------------|----------------|------------------|
| 25mm diameter 1 Inch HDPE pipe | 15 | 7,500 | 112,500 | |
| Joiners | 14 | 300 | 3,500 | |
| Labor cost: Digging of the 1KM trench | 1km | - | 85,000 | |
| Plumber | 1 | - | 25,000 | |
| Water Tank | 1 | - | 70,000 | |
| Construction of water stand | 1 | - | 15,000 | |
| Solar water Pump | 1 unit | 120,000 | 120,000 | |
| SUB TOTAL | | | 431,000 | |

PHASE 2: Tree Nursery Setup

| Item Description | Quantity | Unit Cost (KES) | Total (KES) | Special Comments |
|-------------------------|----------|-----------------|-------------|------------------|
| Poly bags 12" | 100 | 10 | 1,000 | |
| Rooting hormone | 3 | 300 | 900 | |
| Secateurs | 2 | 300 | 600 | |
| Shovels | 5 | 300 | 1,500 | |
| Rakes | 5 | 200 | 1,000 | |
| Hammers | 3 | 400 | 1,200 | |
| Hose pipes | 2 | 2,000 | 4,000 | |
| Watering cans (plastic) | 5 | 400 | 2,000 | |
| Pangas | 5 | 300 | 1,500 | |

| Item Description | Quantity | Unit Cost (KES) | Total (KES) | Special Comments |
|--------------------------------------|-----------------|------------------------|--------------------|-------------------------|
| Shade nets 75% | 3 rolls | 26,000 | 78,000 | |
| Poles | 60 | 200 | 12,000 | |
| Barbed wire | 6 rolls | 3,000 | 18,000 | |
| Chain link | 10 | 5,000 | 55,000 | |
| Labour: Shade net setup plus fencing | - | - | 30,000 | |
| Binding wire | 10 Kgs | 200 | 2,000 | |
| Seeds (various) | 15 | 500 | 7,500 | |
| Books of record | 10 | 200 | 2,000 | |
| Chairs | 4 | 3,000 | 12,000 | |
| Desk | 2 | 7,000 | 14,000 | |
| Drip kit | 1 unit | 69,426 | 69,426 | |
| Water tank | 2 | 35,000 | 70,000 | |
| SUB TOTAL | | | 383,626 | |

SUM TOTAL

| Phase | Amount (KES) |
|--------------|---------------------|
| Phase 1 | 431,000 |
| Phase 2 | 383,626 |
| Total | 814,626 |