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## WASTE TO WEALTH PROJECT

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*Up-scaling Recycling of waste plastic into quality and durable building materials*



**A project proposed by LUDEWA DEVELOPMENT GROUP (LUDEG)**

### **CONTACT ADDRESS**

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## PROJECT SYNOPSIS

PROJECT TITLE	Up-scaling Recycling of waste plastic into quality and durable building materials
PROJECT LOCATION	10°05'56"S34°41'04"E
PROJECT DURATION	Continues
PROPOSED START DATE	It will be as soon as possible after receiving fund
TOTAL PROJECT BUDGET	One hundred thirteen millions ninety seven thousand and one hundred fifty Tanzanian shillings(TZS 113,097,150.00)
LEGAL CONTACT PERSON	The Founder and senior Project Manager - Mr <i>Musa Ibrahim Haule</i>
PROJECT IMPLEMENTER	Ludewa Development Group (LUDEG)
BANK NAME	National Microfinance Bank (NMB)
NAME OF ACCOUNT HOLDER	LUDEWA DEVELOPMENT GROUP
ACCOUNT NUMBER	60110009473
BRANCH	LUDEWA

## ORGANIZATION BACKGROUND

*Ludewa Development Group* (LUDEG) is the registered Community Based Organization (CBO) with registration number LDC/GR/925 (registered early June 2018) and its head quarter in Ludewa town (10°05'56' 'S34°41'04"E). It is the active organization that promotes and assists development within Ludewa district in education, community health, social welfare and economic issues that support community so as to alleviate poverty

## PROJECT BACKGROUND, SUCCESS AND CHALLENGES

LUDEG always invest in human resources to accomplish its task with complex members and leadership for assuring the projects and programmes are done within time frame. This has made our organization to be very clear and attracts so many online and onsite volunteers and donors from different places especially in the project named “*Recycling of waste plastic into paving quality building materials*” as briefly described below:-

- a. ***Recycling of waste plastic***:- Upon establishment, 2018 June the project named “*waste to wealth project*” aimed to recycle waste plastic into useful materials got funded by our foreign friends – a small German NGO *Afrika hilfe franken* with Chairman Kirsten Sauer (<https://afrika-hilfe-franken.de/index.php/projekte/tansania/ludeg-recycling>) after sending proposal to them. Quickly after receiving the fund we started project. *Exciting results* have seen regarding to recycling. *Recycling waste plastic* have created new chapter in the community and local government authority (LGA’s) as an *alternative way of getting rid of waste plastic materials*. Recycling is not easy task as one can imagine – collection of waste plastic around the street and melting it is a major challenge. The fund were used for piloting the project (construct workshop, purchase of working tools, safety tools and collection of materials) – the project report has been attached.

LUDEG also made an agreement with *Givingway fundraising platform* (<https://www.givingway.com/organization/ludewa--development-group>) to give us opportunity to collect donations (USD68 were raised up to now about 4% required fund). This platform also given us opportunities to recruit volunteers online and onsite. Up to date there are 7 online volunteers who help us to perform task of their choice for us and 6 onsite volunteers (due to COVID 19 they failed to arrive onsite) worldwide.

- b. ***The friends for children project***: - After long-time looking the community needs in cooperation with fellow members altogether decided to come with project named “*the friends for children project*”. Previously we used to rent building where we pay 50,000TZS (USD21.74) monthly for this project to stay with them and manage our program in every September to December since 2018 to date. Space and building is limited to accommodate as many children as the

current need. There are limited learning and teaching facilities. Early March 2020 we succeeded to purchase 4 acre land and already survey made and building design and layout is on hand for construction.

### NEED ASSESSMENT



*Figure 1: Waste plastic bottles waiting for recycling (Left); mixing of melted plastic with dry sand (right)*

Plastic waste became a major global problem. A lot of waste plastic are improperly disposed daily everywhere. This has brought serious damages to the local environment in water, air and pollutes soil. Improper disposing of waste plastic created breeding site for dangerous insects like mosquitoes which causes Malaria, a disease which kills so many people especially infants and pregnant mothers. A disease like cholera is a most result of improper dispose of waste.

LUDEG – as community based organization we came with solution to solve this problem through recycling of it into quality and durable building materials. Collection of waste materials involve consulting our local tricycle driver (commonly “*bodaboda*”) to take this task and paid a cash. We fail to have a large stock of it since there are no fencing. This gives risk to a children to take these waste again and throw it. Production capacity is not sufficient as compared to the problem due to machineries and technology we have. It is very important to clean the plastic before subjecting to recycling. Impurities cause problem in during melting where excess smoke may be created and prevent the plastic from sticking to each other. Sand added attaches firmly with melted plastic and increases the strength of pavers.



## INNOVATION

We are involved in recycling these unwanted plastic waste that are thrown everywhere littering the streets and encroaching people's homes into aesthetic, durable and environmentally friendly *plastic lumber, paver blocks and building bricks*. In addition to providing a solid waste management solution for the district, we provide an alternative to concrete pavers and concrete or clay building bricks thus saving our forests and environment in general. These recycled products *do not rot, are termite resistant, outlast in application and can be cut, drilled and nailed as easily as timber*.



The bricks are suitable for building as clay and concrete bricks. The posts are suitable for fencing on farms, homes, national parks, game reserves and commercial premises such as cattle ranches and tourist resorts. They can also be used as support beams for houses, cow sheds and garages. Smaller profiles can be used to make chicken houses, rabbit houses, cow sheds and garages.

## JUSTIFICATION

Upon receiving of the fund, LUDEG will quickly be accountable to perform the following task:-

- a. *Extension of workshop and fencing,*
- b. *Purchase of garbage truck*
- c. *Construction of incinerators) so that to bring more exciting results.*

## PROJECT OUTCOME/OUTPUT

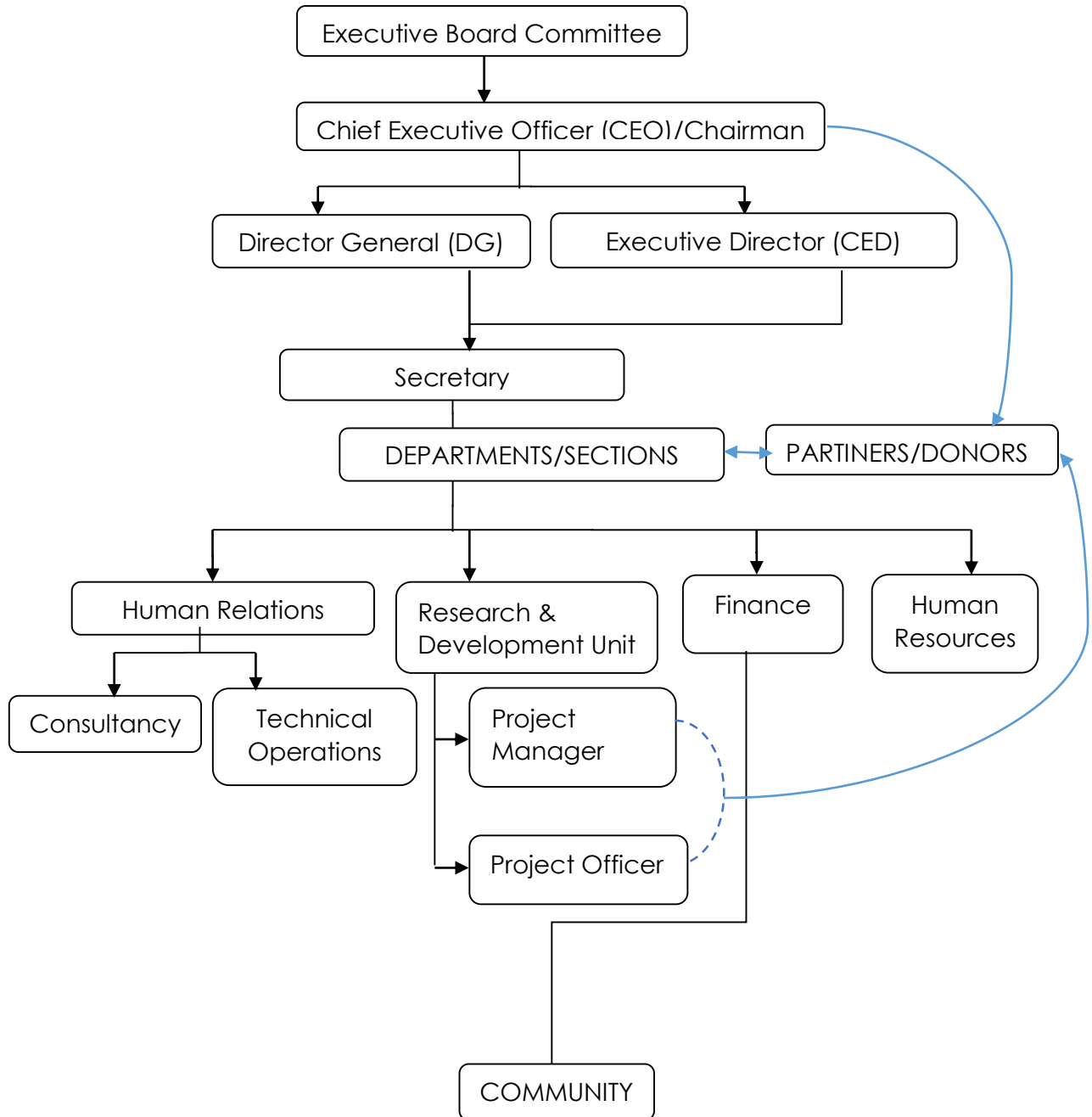
Up-scaling "Recycling of waste plastic into quality and durable building materials" will be helpful to:-

- a. *Reduce the waste plastic and clean environment with free from waste related diseases*
- b. *Increase the daily production of building materials*
- c. *Improve the livelihood of community especially youth and women through employment*

## PROJECT BUDGET

It requires TZS 113,097,150.00 (USD48, 738. 86) where we request UNDP to fund TZS 101,787,435 (USD43,864.97) and the remaining amount TZS 11,309,715 (USD4,703.89) to complete this project (*The budget description has attached*).

## MANAGEMENT STRUCTURE



**DECLARATION STATEMENT:**, I, Musa Ibrahim Haule declare as the Founder and the senior Project manager of **Ludewa Development Group (LUDEG)** that the information contained in this project proposal are truly, really from LUDEG and never submitted to or copied anywhere else.

Musa Ibrahim Haule  
The Executive Director  
Ludewa Development Group (LUDEG)

15 October 2020