



## **TANZANIA INVESTMENT CENTRE**

### **REGISTRATION FORM FOR CERTIFICATE OF INCENTIVES**

**(Tanzania Investment Act 1997, Section 17 and 18,  
and the Investment Regulations: Regulation 42, Government Notice  
No. 318A of 2002)**

Tanzania Investment Centre  
9A & B Shaaban Robert Street  
P. O. Box 938

**DAR ES SALAAM**

Tel. 2116328

Fax. 2118253

e-mail: [information@tic.co.tz](mailto:information@tic.co.tz)

Website: [www.tic.co.tz](http://www.tic.co.tz)

**(Please fill the form in duplicate)**

THE UNITED REPUBLIC OF TANZANIA

THE TANZANIA INVESTMENT ACT  
(No. 26 of 1997)

APPLICATION FOR REGISTRATION  
(Made under Regulation 42)

To: The Executive Director  
Tanzania Investment Centre  
P. O. Box 938  
DAR ES SALAAM  
Tanzania

1. I/we FRANK FINIHAS MACHUMU  
(director/directors/agent of MEMBI FISHERIES LIMITED  
(name of business enterprise) apply for registration of Certificate of Incentives  
under Section 17 of the Act and Part IV of the Investment Regulations, 2002.
2. The registered office of the company will be situated at GEITA, NEAR  
ROMAN CATHOLIC CHURCH.

Copies of the following documents are attached to this application:

- (i) The Memorandum and Articles of Association/partnership agreement
  - (ii) Certificate of Incorporation/Registration
  - (iii) A copy of the Project Profile or Feasibility Study showing the implementation period, programme of implementation and operative date
  - (iv) Evidence of financing and evidence of land ownership for the project
3. The Head Office of the Company will be situated at GEITA.
4. The Principal Officers of the Company are FRANK FINIHAS -  
MACHUMU, EDRA LAZARO MEMBI.
5. Auditors of the Company are LEROY FINANCIAL CONSULTANTS
6. The authorized share capital of the Company is Tshs./~~US\$~~ SIX BILLIONS (6,000,000,000)

7. The intended capital investment of the Company in terms of Section 2(2) of the Act is Tshs./US\$ ... 1,2,000,000 .....

8. The month and day of the financial year end is ... DECEMBER .....

Note: *failure to provide all the required information will result in the return of the application by the Centre.*

I/We enclose a ~~cheque~~/cash made payable to the **Tanzania Investment Centre** for Tshs./US\$ ... 3,036,000/= ... Being the Registration Fees. *In the event this application is unsuccessful we understand that this fee will not be refunded.*

I, FRANK F. MACHUMU of Post Office Number 546, GEITA

..... do solemnly and sincerely declare that I am a director/~~only~~

authorized agent of MEMBI FISHERIES LIMITED

AND that all the requirements of the Tanzania Investment Act, 1997 in respect of matters precedent to the registration of the business enterprise under the Act and incidental thereto have been complied with, AND I make this solemn declaration conscientiously believing the same to be true.

Declared at Dar es Salaam }  
The 27 day of 12 ..... 2024

fm  
.....  
Applicant

Before me:

.....  
Commissioner for Oaths



**APPLICATION SUMMARY**

Company Name: MEMBI FISHERIES LIMITED

COI Number: 163748304 Status: Operating

Post Box: 546

COI Date: 29/2/2023

Town: GEITA

Sector: AGRICULTURE

Sub-Sector: CAGE FISH FARMING

**Investment Financing Plan in Million US\$/Tshs.**

| Foreign Equity | Local Equity   | Foreign Loan      | Local Loan |
|----------------|----------------|-------------------|------------|
| —              | <u>548,000</u> | <u>12,000,000</u> | —          |

Project Objectives: - To increase food security  
- To increase employment  
- To produce fish feed which will attract more farmers

Capacity: 3600 Tones/Year

Employment: Foreign: 7 Local: 42 Total: 49 (SKILLED ONLY)

Implementation Period: 15 years

**Project Location**

Site/Plot/Block No.: —

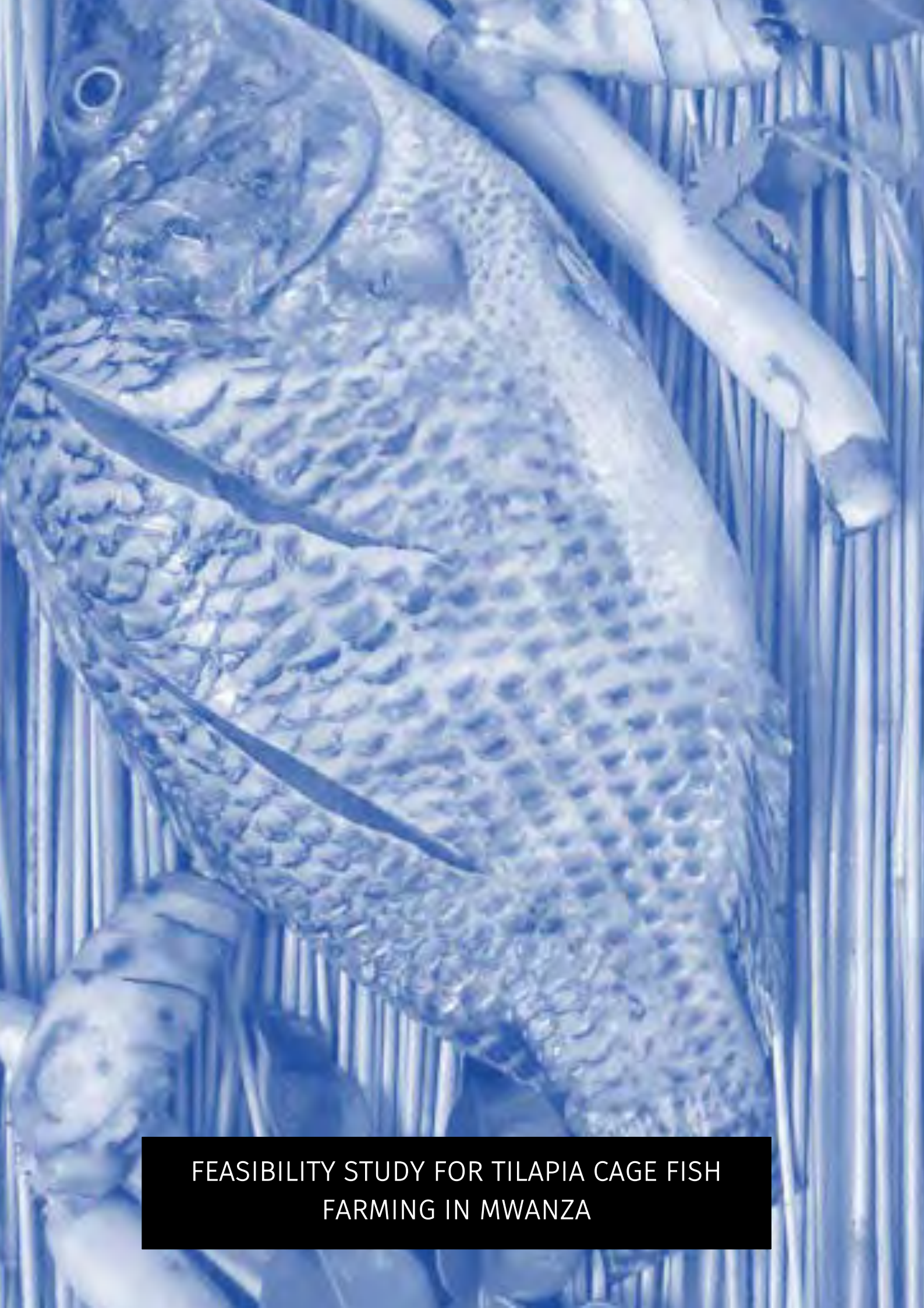
Street: BUZEGWE District: UKEREWE Region: MWANZA  
 (Attach sketch map showing project location)

| Shareholders         | Nationality      | %          |
|----------------------|------------------|------------|
| <u>FRANK MACHUMU</u> | <u>TANZANIAN</u> | <u>30%</u> |
| <u>EZRA MEMBI</u>    | <u>TANZANIAN</u> | <u>30%</u> |
| .....                | .....            | .....      |
| .....                | .....            | .....      |
| .....                | .....            | .....      |

| <b>Investment Breakdown</b> | <b>US\$/Tshs.M</b> |
|-----------------------------|--------------------|
| Land/Building               | 1,500,000          |
| Plant                       | 2,000,000          |
| Vehicles                    | 500,000            |
| Furniture & Fittings        | 300,000            |
| Pre-expenses                | 200,000            |
| Others                      | 3,500,000          |
| Working Capital             | 4,000,000          |
| <b>TOTAL</b>                | <b>12,000,000</b>  |

**Contact Details:**

Name: FRANK MACHUMU Title: DIRECTOR & CEO  
 Telephone: 0754-775566 Fax: —  
 Email: ceo@mamba fisheries.com



FEASIBILITY STUDY FOR TILAPIA CAGE FISH  
FARMING IN MWANZA



# TABLE OF CONTENTS



|                                 |    |
|---------------------------------|----|
| ABBREVIATIONS                   | 3  |
| BACKGROUND                      | 4  |
| METHODOLOGY                     | 7  |
| DATA COLLECTION FINDINGS        | 10 |
| MFL CONTRIBUTION TO THE ECONOMY | 26 |
| PROJECT ENVIRONMENTAL IMPACTS   | 34 |
| CLOSING REMARKS                 | 38 |
| REFERENCES                      | 40 |
| ANNEXURES                       | 47 |

## **ABBREVIATIONS**

|        |  |
|--------|--|
| AFDP   | Agricultural and Fisheries Development Program     |
| BAU    | Business As Usually                                |
| CAGR   | Compound Annual Growth Rate                        |
| cm     | Centimeter (measurement)                           |
| DO     | Dissolved Oxygen                                   |
| EIA    | Environmental Impact Assessment                    |
| EEZ    | Exclusive Economic Zone                            |
| EMA    | Environmental Management Act                       |
| FAO    | Food and Agriculture Organization                  |
| FADs   | Fish Aggregating Devices                           |
| GDP    | Gross Domestic Product                             |
| Kg     | Kilogram   |
| LVFO   | Lake Victoria Fisheries Organization               |
| MLF    | Ministry of Livestock and Fisheries                |
| MFL    | Membi Fisheries Limited                            |
| m      | Meter(s) (measurement)                             |
| NBS    | National Bureau of Statistics                      |
| NEMC   | National Environmental Management Council          |
| PMO    | Prime Minister's Office                            |
| SDG    | Sustainable Development Goal                       |
| TAFIRI | Tanzania Fisheries Research Institute              |
| USAID  | United States Agency for International Development |
| USD    | United States Dollar                               |
| TZS    | Tanzanian Shillings                                |
| t      | Ton (weight)                                       |

## **BACKGROUND**

Foods that are captured or cultivated in freshwater or marine environments, known as aquatic foods, are a vital part of Tanzania's economy regarding nutrition, income and employment (USAID, 2020). In 2017, fish accounted for about 20% of total per capita intake of animal protein for almost half of the world's population (FAO, 2020). In addition, fish and fish products provide a rich source of vitamins and essential micronutrients, such as zinc and iron, for cognitive development and functioning (Thilsted et al., 2016).

Sustainable fish production as one of the fundamental goals for sustainable development incorporated in the 2030 agenda (Orina et al., 2018), requires international collaboration for positive results of the SDG (Sustainable Development Goal) 14 (FAO, 2020). Fish farming is projected to extend more to satisfy the future global nutritional needs (Bostock et al., 2010). This will offer resilience, enhance the well-being of local communities, food supply, job opportunities, and reduce poverty. In 2018, about 59 million people had been engaging in fisheries and aquaculture of which only 3.9 million fish farmers came from Africa (FAO, 2020).

Fish farming is the quickest developing sector of the world food economy (Staniford, 2002) contributing about 42 percent to 58 million tons of fish supplied globally (Challouf et al., 2017). By region, Africa has the quickest development in the fish farming sector, however from a small stand of about 18 percent compared to the Asian region (FAO, 2020).

In Tanzania, the fishery sector directly provides jobs for about 200,000 people (Chan and Tran et al. 2021) while 4.5 million people (approximately 35% of rural employment) indirectly depend on fishery activities. The fish sector contributes about 1.75% to Tanzania's gross domestic product (GDP) (MLF, 2021).

The role of aquatic food production in the Tanzanian economy has substantial room to grow as multiple indicators show that the fishery sector is underperforming. Population growth is outpacing the rate of growth in the aquatic food supply, which has led to an annual per capita fish consumption rate of roughly 8.5 Kilogram (kg) (MLF, 2021).

For comparison the global average is 20.5 kg (FAO, 2020). This is not due to the preferences of consumers in Tanzania as the demand gap for fish has been estimated at roughly 300,000t (MLF, 2020b), a substantial amount. Furthermore, the demand for aquatic foods worldwide is projected to double by 2050, with higher increases in areas where such foods will become more accessible (Naylor et al., 2021). To meet the supply shortage, imports of low-value fish have also risen steadily in recent years, closing the gap between import and export quantities. Most of the lack in fish supply can be attributed to lagging aquaculture growth in the region, which makes up only 4% of domestic fish supply.

Being located in East Africa region and within the African Great Lakes region, Tanzania has abundant fishery resources (MLF, 2021). The total inland water bodies cover about 6.5% of the country's total land area. Inland water resources in Tanzania include Lake Victoria (35,088 km<sup>2</sup>), Lake Tanganyika (13,489 km<sup>2</sup>), Lake Nyasa (5760 km<sup>2</sup>), Lake Rukwa (3000 km<sup>2</sup>), Lake Eyasi (1000 km<sup>2</sup>), and about 1000 km<sup>2</sup> of other small lakes. On the marine side, Tanzania has a coastal line of 1424 km, a territorial sea of about 64,000 km<sup>2</sup>, and a 200-nautical mile Exclusive Economic Zone (EEZ) covering an area of 223,000 km<sup>2</sup>.

The estimated maximum sustainable yield of the country's aquatic resources is roughly 750,000 tons, leaving approximately 300,000 tons yet to be produced. Additionally, aquaculture development has the potential to drastically increase fish supply. However, multiple factors have held back the productivity of Tanzanian fisheries. These are discussed in sections 3-6

Located in East Africa and within the African Great Lakes region, Tanzania has abundant fishery resources (MLF, 2021). The total inland water bodies cover about 6.5% of the country's total land area. Inland water resources in Tanzania include Lake Victoria (35,088 km<sup>2</sup>), Lake Tanganyika (13,489 km<sup>2</sup>), Lake Nyasa (5760 km<sup>2</sup>), Lake Rukwa (3000 km<sup>2</sup>), Lake Eyasi (1000 km<sup>2</sup>), and about 1000 km<sup>2</sup> of other small lakes. On the marine side, Tanzania has a coastal line of 1424 km, a territorial sea of about 64,000 km<sup>2</sup>, and a 200-nautical mile EEZ covering an area of 223,000 km<sup>2</sup>. The estimated maximum sustainable yield of the country's aquatic resources is roughly 750,000 tons, leaving approximately 300,000 tons yet to be produced. Additionally, aquaculture development has the potential to drastically increase fish supply.

This report provides the findings of the feasibility study for the establishment of fish farming investment in favor of Membi Fisheries Limited (MFL) is embedded within the overall framework of the development of the fisheries subsectors in Tanzania particularly the Ukerewe district to contribute to national economic growth, employment creation and poverty reduction. In this investment category, fish farming investment will be conducted.

Fish cage infrastructural systems will be installed within Lake Victoria at Buzegwe village, Kagunguli ward, Mumulambo division of Ukerewe district in Mwanza region. MFL has managed to have an authentication on ownership of the area within Lake Victoria which will be used for fish farming. The authentication has been issued by the local government authorities of Ukerewe district, as a result of permission which has been granted to MFL by the Ministry of Livestock and Fisheries (MLF). In total MFL owns 5 acres of beach plot and a plot of about 6,300,000 square meters within Lake Victoria which is ideal for cage fish farming operations.

On the other hand, MFL fish farming investment has two thematic areas: youth and women economic empowerment (it is anticipated that the investment will offer employment opportunities to youth and women in various nodes of operations as well as they will get an opportunity for skills transfer on fish farming and marketing) and fisheries with local and international market-based approaches. Both thematic areas

have been executed to shape the fisheries value chain for the benefit of the investor, community, and nation as a whole. The product center of this report is fish, particularly the Nile Tilapia type.

The establishment of fish cage farming by MFL will also be in-line with the commencement of the fish fingerling production unit whereby YY technology will be used for tilapia fish breeding. The fingerlings will be used by MFL and others will be traded in the market to fill the gap in demand of fingerling by other fish farmer. The feasibility study reveals that all business opportunity (cage fish farming and fingerling production) is feasible due to potential market available in Tanzania and nearby countries.

### **Objectives of the Feasibility Study**

This study seeks to assess the feasibility of establishing the caged fish farming investment in Lake Victoria and evaluate what a sustainable future for aquaculture in this region is. Specifically, the purposes of this study include;

1. To understand the fishery sector in Tanzania, particularly the aquaculture;
2. To assess demand and supply of fish and fish products in Tanzania for the last decade
3. To assess demand and supply of fish;
4. To assess the price trend of fish in Tanzania;
5. To investigate the legal, regulatory, and institutional framework requirements for aquaculture in Tanzania;
6. To examine the contribution of the fisheries subsector towards Tanzania's economic growth;
7. To investigate the environmental consequences which may be caused by cage aquaculture in Lake Victoria, Tanzania;
8. To understand the cage fish farming practices in Lake Victoria, Tanzania; and,
9. To identify ways to improve aquaculture management and reduce the environmental impact on Lake Victoria, Tanzania.

### **The Rationale of the Feasibility Study**

Today, Tanzania is adopting "The Blue Economy Concept" by mainstreaming aquaculture as a crucial venture of national economic development and as a means of employment, food security, income generation and livelihood improvement. Thus, cage fish farming is a type of aquaculture practice that is expected to be increasingly important to fill up the gap for declining fish capture in Lake Victoria, Tanzania. However, cage farming is still a new aquaculture technology in Tanzania. Therefore, this study will help investors to understand the feasibility of the investment in cage fish farming around Lake Victoria, Tanzania or elsewhere in Tanzania will be undertaken by understanding the legal, regulatory and Institutional framework for establishing fish farming project in Tanzania, Negative environmental impacts and how to mitigate them in fish farming investment, the socio-economics benefits as well as the dependence of the communities around the Lake Victoria.

## METHODOLOGY

### Description of the Study Area

#### Lake Victoria

Lake Victoria (figure 1), is a transboundary water body shared among three countries Tanzania, Uganda, and Kenya (Kayombo & Jorgensen, 2006), which is lying within a shallow depression with a mean depth of about 35m (Sitoki et al., 2010) occupying an area of about 68,800 km<sup>2</sup> (Luomba et al., 2016) with a length of about 400km and its breadth is about 320 km<sup>2</sup> (Nyamweya, 2017).



Figure 1. Physical features of Lake Victoria  
Source: Vanderkelen et al (2018)

#### Ukerewe, Buzegwe Area of Lake Victoria, Tanzania

MFL owns 5 acres of beach plot and a plot of about 6,300,000 square meters within Lake Victoria which will be used for fish farming operations. Regarding site selection and evaluation, TAFIRI categorizes two types of areas for possible cage fish farming in the lake. Those are areas of small or medium cage installations (small or medium farms) and areas of large cage installations (large farms). The area characteristics for the Buzegwe area in the Ukerewe district of Lake Victoria Tanzania include:

- Close to bays with a minimal distance of 300m from shore. This is good because areas around most bays and very close to shore are important as nursery and breeding grounds for most local fishes
- The area has a minimum depth of 7.0 m to allow 3.0m of ground clearance. Areas with a minimum visibility of 1.2m to 1.5m and somehow open to water currents (parallel to prevailing winds) to transport away debris from cages. However, sites quite open to water currents are not good for the sitting of the cages as strong water currents may dismantle the cage system leading to major losses
- The area has a minimum dissolved oxygen (DO) of 5mg/l for bottom water
- The area is far from known source of pollution (approximately 1000m minimum distance)

According to TAFIRI areas with these characteristics are considered to be ideal for cage fish farming in Lake Victoria, Tanzania.

Generally, TAFIRI desires that sites designated for cage fish farming in the Lake Victoria should have minimum environmental threats, not confined to other uses like shipping lines, game reserve or critical habitats and at least not quite far from human settlements for security purposes as piracy seems to be a challenge to the safety of fish in the cages. The location of the MFL fish cage system is ideal as it dwells within all stipulations of TAFIRI guidelines.

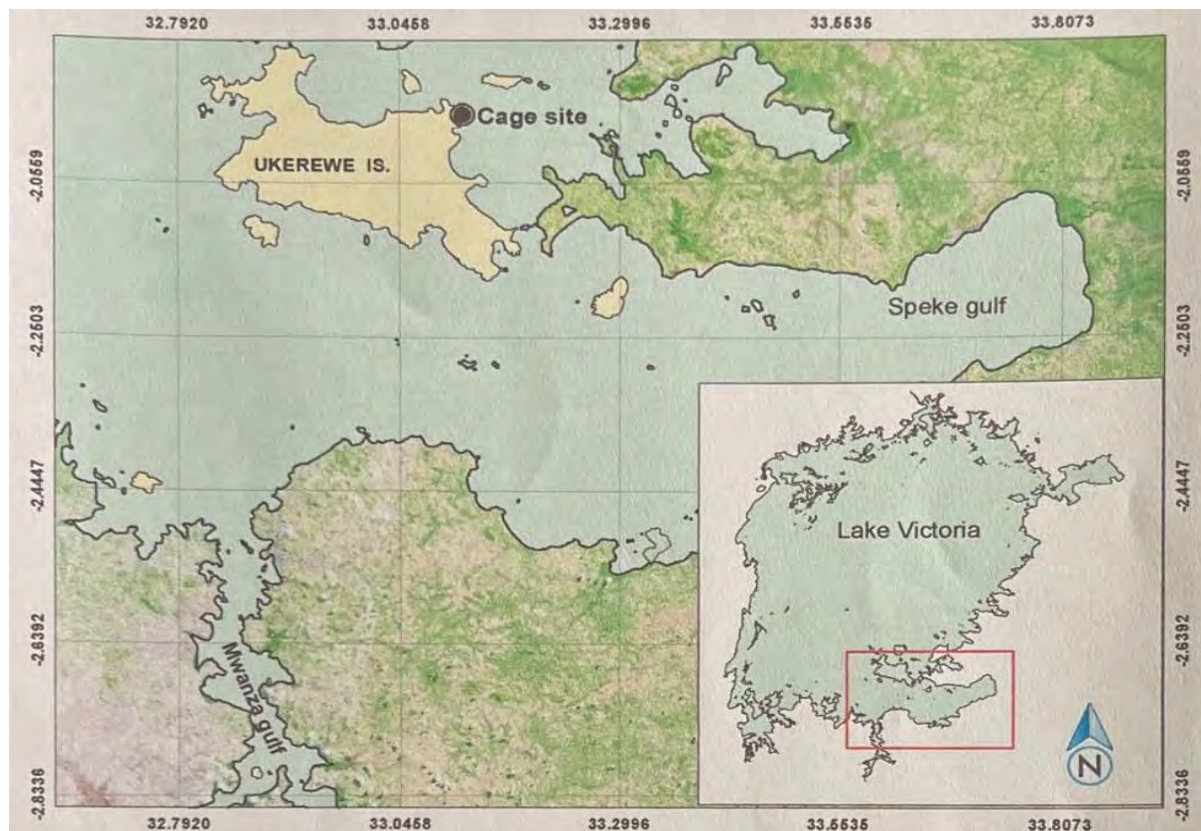


Figure 2: Surveyed area for cage fish farming in the Buzegwe village, Ukerewe District  
Source: TAFIRI 2023

## **Methods of Data Collection**

The study was conducted through a combination of desk work and interview with expert in the fishery subsector. The desk work review involved collecting relevant information for each of the thematic area covered under the study. This included sectoral policies and strategies, existing studies conducted at national and regional levels, as well as other relevant industry documents and literature.

To complement the findings of the literature review, key stakeholders were consulted with a view of understanding and documenting the practical issues on the ground including opportunities and challenges in the establishment of fish caging systems in Lake Victoria, Tanzania. This included information from specific actors on the value chain as well as in-depth expert interviews with industry experts.

Information from field interviews and secondary literature were subsequently grouped, and synthesized, and key findings clustered into their respective thematic areas. The collected information was used as a basis for recommendations on the feasibility of establishing a fish cage system by consideration of the policy, legal, regulatory, and institutional frameworks for the fishery sector. A total of 35 interviews were conducted including; 25 males and 10 female respondents.

## DATA COLLECTION FINDINGS

### Overview of the Tanzanian Fisheries Subsector

The fisheries subsector in Tanzania combines capture fisheries and aquaculture. Tanzania is one of the greatest fisheries nations in Africa, ranking in the top 10 countries in terms of total capture fisheries production. The fishery industry is dominated by small-scale fishers and aquafarmers, contributing more than 95% of the country's total catch. The contribution of the sector to the Gross Domestic Product (GDP) for the past five years has been fluctuating between 1.6% and 1.8%, which is still low compared to the available fisheries resource potential (Ministry of Livestock and Fisheries, 2021).

On the other hand, mainland Tanzania has enormous untapped potential for aquaculture development. It has water (both freshwater and marine), land, a legal framework that supports aquaculture, and a favorable climate. Despite the availability of the huge aquaculture potential, the subsector does not make a major contribution to the nation's economic development mainly because of inadequate affordable quality seeds and feed, poor aquaculture management practices, and unreliable financial capital. The current aquaculture production of 18,717 metric tons (less than 4% of the overall fish production) is very low. Thus, concerted efforts are needed to develop aquaculture to the required level to bridge the gap between demand and supply.

### Aquaculture in Tanzania

In Tanzania, freshwater aquaculture production began in 1949 (Rukanda & Sigurgeirsson, 2018). Regardless of the prospects and long record, its commercial production and importance to food security are largely unrecognized. Commercial aquaculture in Tanzania is a new sector dominated by *Onchorynchus mykiss* (rainbow trout), *Clarius gariepinus* (African catfish), *Oreochromis niloticus* (Nile tilapia), *Eucheuma cottonii*, *E. spinosum* (seaweed) and *Chanos chanos* (milkfish) production (Shoko et al., 2011). The industry is essentially a subsistence occupation practiced by local communities along the coastal and inland regions contributing to people's needs for nutrition, and it provides job opportunities and income generation (FAO, 2020).

In 2014 only 20,134 ponds and nine raceway systems were established whereas, in 2016, about 18,900 people were engaging in fish farming in Tanzania, producing about 3,840 tonnes per year and earning about Tanzania shilling 22,000 million (Mulokozi et al., 2020). Fish marketing in Tanzania is mostly a small-scale activity with a locally organized value chain.

About 42% of the harvested fish had been domestically fed and the remaining 57 percent had been sold locally (Chenyambuga et al., 2014; FAO, 2012). Only a few farmers are known to export farmed fish to a neighboring country. The benefit of aquaculture to national food security and monetary improvement continues to be negligible, and the effect on poverty relief is consequently negligible (FAO, 2012) with less than 1% contribution to the

national GDP (NBS, 2014). This has been witnessed by the decline in freshwater aquaculture production from about 16,000 tons in 1992 to about 1,400 tons in 2008. Currently, aquaculture products, for instance, seaweed, are transported and processed abroad at high cost and the commodities are re-imported back to Tanzania for consumption.

Hence, for profitable farming, seaweed could be processed and consumed in Tanzania (Mulokozi et al., 2020). Despite that freshwater aquaculture started earlier than mariculture in Tanzania, its speed of growth is low with an estimated production of about 200 tons per hectare per year when compared to about 3,800 tons per hectare per year of mariculture between the years 1982 and 2005 (Shoko et al., 2011).

However, in the sub-Saharan region, Tanzania is a country with good aquaculture production (FAO, 2010). This is contributed by the presence of both freshwater and marine aquaculture of which about 1400 km of the coastal line and marine water covering about 64,000 km<sup>2</sup> provides opportunities for both pond-based and freshwater cage mariculture systems.

The large fish market is within the country whereby fish processing is carried out alongside the Indian Ocean and Lake Victoria. Tilapia and Catfish species are involved the freshwater production while milkfish, prawns, crabs and seaweed from mariculture (figure 3). (Rukanda & Sigurgeirsson, 2018). Unlike seaweed culture, which engages approximately 20,000 farmers (Shoko et al., 2011), freshwater aquaculture in Tanzania comprises about 19,000 farmers working on one or more small ponds both in freshwater and marine water culturing mostly tilapia and catfish (Mmochi, 2011; Mulokozi et al., 2020; Rukanda & Sigurgeirsson, 2018; van der Heijden, Peter GM et al., 2018). Although Tanzania is rich in both freshwater and saltwater (64,300 km<sup>2</sup> and 64,000 km<sup>2</sup> respectively), low advance and obsolete innovation bring about low aquaculture production (Mmanda et al., 2020; Rukanda and Sigurgeirsson, 2018).

In recent years, the fish farming sector in Tanzania has gained acceptance as witnessed by the booming of fish farms from 14,000 fishponds in 2004 to 26,000 in 2019, with annual production of about 18,000 tons. However, the number of professionals, insufficient quality seed and feed (Mmanda et al., 2020) limit the sector. For example, presently, there are twelve operating tilapia breeding places in Tanzania, three government-owned and nine owned by private companies which produce fingerlings with low quality because of mixed species, lack of support from the government, and shortage of specialists in feed formula and breeding (Kajungiro et al., 2019). Thus, putting resources into innovations like cages is needed to improve production (Rukanda and Sigurgeirsson, 2018), and an

organized breeding plan is needed to improve food security with minimal effects on native germline (Kajungiro et al., 2019).

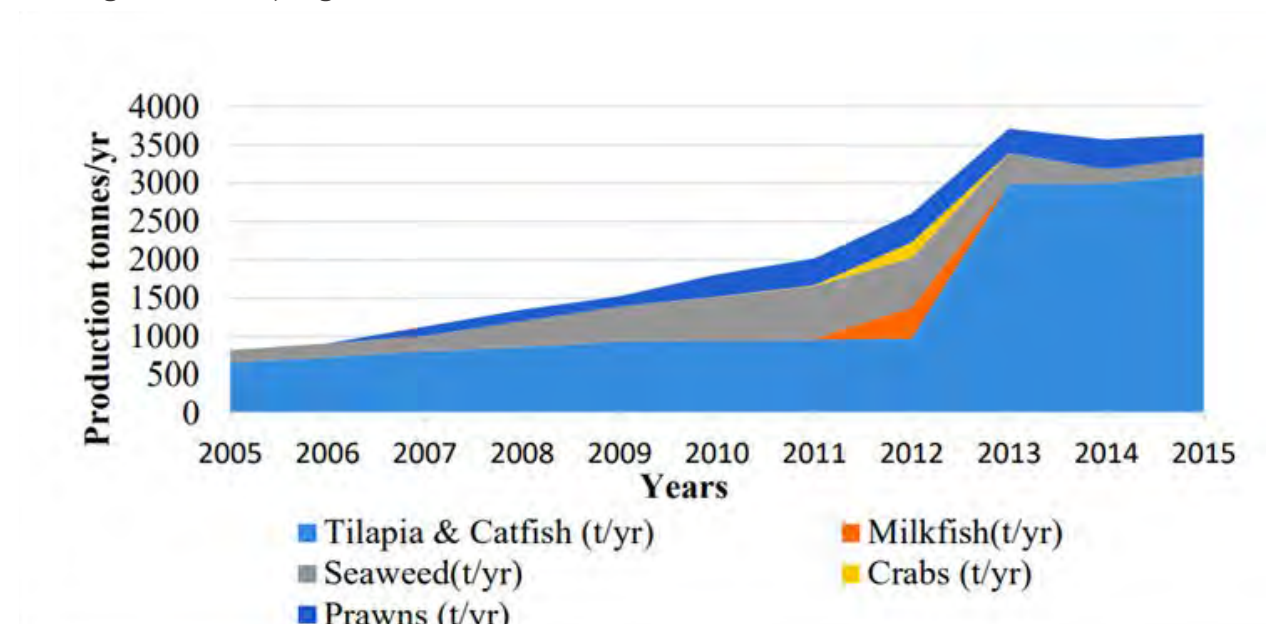


Figure 3: Aquaculture development in Tanzania  
Source: Rukanda & Sigurgeirsson, (2018)

## Overview of Fishery in Lake Victoria



Fishery in Lake Victoria is mainly artisanal with a move to commercial production whereby silver cyprinid dagaa, tilapia and Nile perch accounting for most of the catch (Nyamweya, 2017; Luomba et al., 2016). Thus, the lake supports food supply, employment and provides income to rural communities. The Lake supports more than 30,000,000 individuals of

which about 150,000 individuals are employed in the fishery sector (Vanderkelen et al., 2018) with an annual yield of about 1,000,000 tons (Sitoki et al., 2010). The introduced Nile perch contributed to the increase in fish catches and hence changed the system to commercial fishery with an export capacity of about 90 % in the East African countries (Tanzania, Uganda, and Kenya). For instance, in 2014, about USD 650 million worth believed to come from the lake. The fishery activities in Lake Victoria contribute to national GDP, foreign exchange, revenue, jobs, and food is 2.8% in Uganda, 2.5% in Tanzania, and 0.5% in Kenya. However, human-oriented activities such as farming, overexploitation of natural resources have caused negative effects on the lake, affecting its ecosystems. As a result, fish capture declined, biodiversity composition changed and the sustainability of the Lake through which the socioeconomic benefits of the local communities depend upon it (Nyamweya et al., 2020).

### **Cage Fish Farming System**

Cage fish farming is the practice of holding fish in vessels, which are closed on their sides and the bottom with netting materials for protecting the fishes, meanwhile allowing free movement of water to supply oxygen to the enclosed fishes. Usually, cages are floated in rafts, and either moored to the reservoir bottom or connected to the shore by a wooden walkway (Mbowa et al., 2017).

Therefore, the cage fish farming system is technologically, socially, financially, and biologically complicated and needs critical expertise, research and versatile learning (Gephart et al., 2020). It is a high-yielding type of aquaculture in many nations in the world, differing in scale from sustenance to commercial operations (Halwart & Moehl, 2006; Tacon & Halwart, 2007). Commercialized cage fish farming started in Norway in the 1970s because of improved technology, support from the government, marketing, and private investment. In addition, the increased competition within the sector caused by easy access to production resources, the economics of scale, the multiplied productiveness per unit area, and the expansion to the utilization of cage farm sites influenced the widespread use of cage fish farming. Currently, commercialized cage culture activities are constrained by high-cost fish farming with multiple-feed fishes, such as salmon and omnivorous freshwater fish species such as Tilapia (Tacon & Halwart, 2007).

### **Cage fish farming in Lake Victoria**

Cage culture practices in Lake Victoria were introduced in 2005, but the expected outcomes have not yet been achieved due to challenges that face the industry such as high initial investment costs and inadequate supply of quality seeds and feed. Currently, the number of cages in Lake Victoria has increased (Njiru et al., 2019) to increase fish production (Kashindye et al., 2015; Njiru et al., 2019). This relates to levels of technological advancement, whereby cage culture in Lake Victoria is fast gaining prominence in aquaculture production contribution (Orinda et al., 2021). Experience shows that a permit system is required for effective monitoring and management of cage farming. This is because of the anticipated negative impacts of cage fishing on the environment and ownership problems associated with public water resource allocation (Béné et al., 2016; Mbowa et al., 2017). Tanzania, like other countries in the world, restricts cage fish farming practices in public waters including a shared Lake Victoria (Tanzania Fisheries Act, 2003). Currently, however, Uganda and Kenya started both medium and large-scale fish farming systems on Lake Victoria (Halwart et al., 2006). On the other hand, recently, cage fish farming practices in Lake Victoria, Tanzania, have been allowed only as experimental trials associated with a mechanism of undertaking environmental impact assessment to avoid the anticipated negative environmental effects that might be caused by the activity (Kashindye et al., 2015; Njiru et al., 2019). These effects may include eutrophication, poor water quality due to fecal matter and excretory, diseases and parasites spread due to escaped fish from cages interacting with wild fishes (Sitoki et al., 2010). Thus, if not controlled well, cage culture practices may become an environmental catastrophe.

## Fish Supply in Tanzania

### Capture Fisheries

As shown in figure 4, capture fisheries (for the past two years) in Tanzania are responsible for the majority of aquatic food production in Tanzania, averaging 364,351 t per year between 2000 and 2019 and making up roughly 96% of total fishery production in 2019 (FAO, 2020). Most production comes from inland fisheries, accounting for about 85% of total capture fishery production annually (MLF, 2020b). Marine fisheries make up the remaining 15% of production. With the maximum allowable catch estimated at 750,000 t for Tanzania (excluding the Exclusive Economic Zone (EEZ)), there is room for growth in the sector (PMO, 2020). Tanzania’s EEZ remains underused by domestic fishing operations, a key issue that the country’s government has been actively solving. Industrial and semi-industrial fishing operations remain largely absent from Tanzania, as 95% of fishery catch is attributed to small-scale artisanal fisheries (Jiddawi and Öhman, 2002). In line with global trends, capture fisheries in Tanzania have not experienced substantial growth since the start of the 21st century, remaining relatively stable, aside from a recent spike in yields due to efforts to minimize illegal fishing (figure 4). This has led to levels of per capita fish consumption that are much lower than international averages as production have not kept up with population growth (MLF 2020b; FAO, 2020).

The problems endemic to Tanzania’s capture fisheries includes insufficient knowledge of the resource base, open-access problems (e.g., tragedy of the commons), inadequate post-harvest infrastructure and subsequent high post-harvest losses, and the predominance of artisanal fisheries (MLF, 2020b). In addition, the lack of a clear exploitation plan for the EEZ remains an issue that threatens the sustainability of marine resources and requires substantial investment and research to solve. Along with management and infrastructure issues, Tanzanian fisheries face the effects of climate change, which, given the low levels of historical data, are especially uncertain (Sekadende et al., 2020). Climate change is predicted to have a more severe impact on freshwater systems because of increased levels of warming on continental land masses relative to the open ocean (Tigchelaar et al., 2021). As a result, Tanzania may be especially vulnerable.

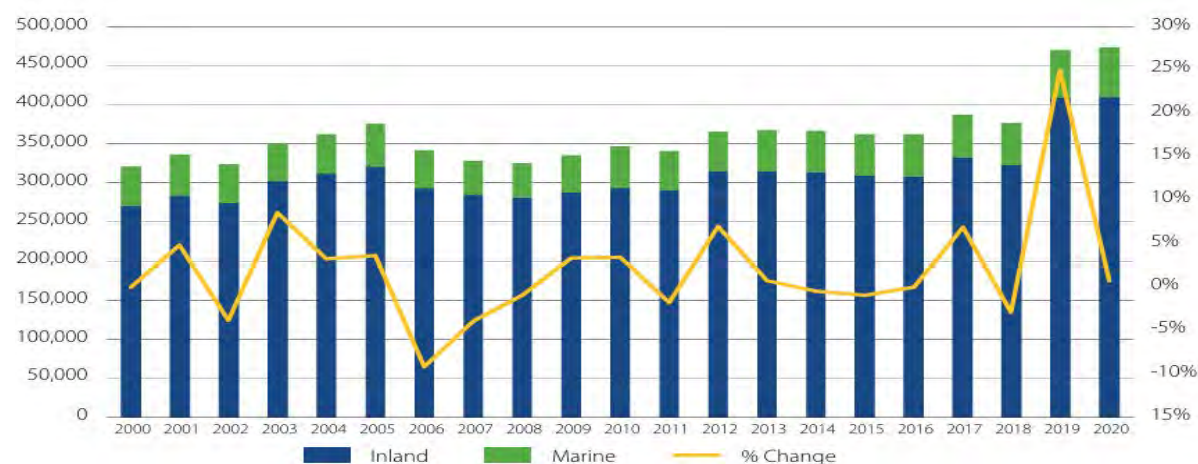


Figure 4. Capture fish yield and growth rate  
 Source: Source MLF 2024

To address these problems, the government has outlined several measures, one of which being the Agriculture and Fisheries Development Program (AFDP) (PMO, 2020). To increase the productivity of artisanal fisheries the plan lends support to fishers for accessing suitable sustainable fishing gear, ice for cold fish storage, implementation of fish aggregating devices (FADs) and improvements in post-harvest processing techniques. The AFDP also promises to buy eight marine fishing vessels with a capacity of 30-45 t each, build three cold fish processing plants and implement a range of supply chain management strategies to effectively use Tanzania's EEZ, focusing on tuna and tuna-like species (PMO, 2020). In addition to these infrastructure advancements, the Ministry of Livestock and Fisheries (MLF) also released its National Fisheries and Aquaculture Research Agenda for 2020–2025. It includes a comprehensive stock assessment and valuation of all water bodies, analysis of fish migration patterns, and identification of endangered and threatened species (MLF, 2020b).

Implementing the above rigorous research agenda will require substantial investments and collaboration with international research organizations but will allow for sustainable and efficient management of Tanzania's capture fisheries. To effectively manage the EEZ, the Tanzanian government has also recently released the Deep-Sea Fisheries Management and Development Act, which lays out a management framework implemented by the Deep-Sea Fishing Authority. This further defines the licensing framework for foreign vessels in Tanzanian waters and will hopefully deter illegal fishing in the area.

## **Aquaculture**

In Tanzania, the contribution of the aquaculture sector is currently low, at about 4% of total fish production (MLF, 2021). Globally, however, aquaculture accounted for 46% of total fish production in 2018, up from 12.7% in 2000. However, it has shown considerable growth in recent years increasing by 563% from 3,517.70 t in 2011 to 18,716.56 t in 2021 (figure 5). Aquaculture in Tanzania is primarily conducted in freshwater with Nile tilapia being the dominant farmed fish, making up more than 90% of total aquaculture production. Freshwater production is characterized by approximately 27,979 predominantly subsistence earthen ponds, 431 cages and one recirculating aquaculture system (MLF, 2020a). Although still not well developed, mariculture is also practiced in Tanzania's coastal areas. Mariculture currently produces a variety of marine species including marine shrimp, mollusks, sea cucumbers, crabs and seaweed. Many of the problems plaguing aquaculture are related to the supply of the inputs needed. These include fingerlings and fish feed, both of which are facing supply deficits. In 2019, private and public hatcheries produced a combined 21 million fingerlings.

MLF outlines the causes of these problems facing aquaculture as the following:

- Inadequate institutional, policy and legal framework for the aquaculture industry
- Limited supply of key aquaculture inputs, especially fingerlings and feeds
- Limited adoption of best management practices and technologies for aquaculture
- Predominance of subsistence aquaculture due to low commercial investment
- Limited value addition and marketing for aquaculture products
- Limited knowledge generation and transfer of technologies and innovations.

The AFDP will be implementing several measures to help expand the aquaculture industry. They include developing additional hatcheries, fish feed production facilities and other necessary aquaculture supplies, providing hands-on training and education on best management practices, expanding the aquaculture supply chain and expanding the market of farmed fish using cold chain facilities. The greater availability of aquaculture inputs alone will drastically improve the situation for Tanzanian fish farmers, allowing easier access and lower barriers to entry into the industry. In addition to the advancements being made in freshwater aquaculture, the Tanzanian government is also planning to increase mariculture activities. This will increase the production of high-value species such as marine shrimp, milkfish and oysters, as well as create new jobs in coastal communities. Implementing these solutions will get Tanzania back on track with the rest of world in regard to aquaculture production, which in turn will enhance livelihoods, and help boost domestic fish consumption to recommended levels.

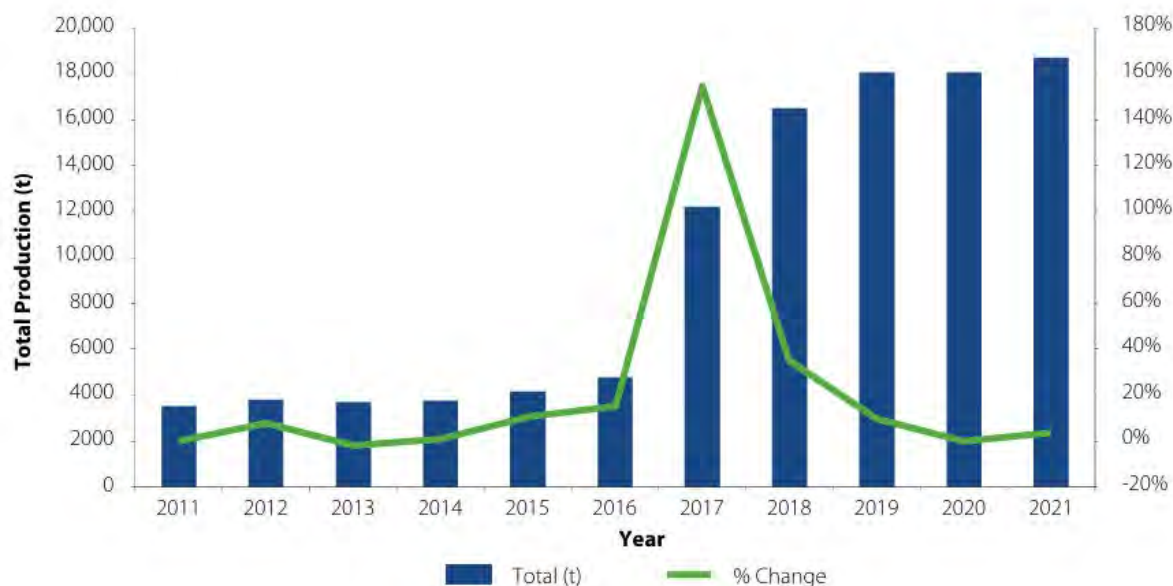


Figure 5: Aquaculture production and annual growth since 2011  
Source: MLF 2021

## Fish Demand in Tanzania

### Fish Consumption Trend

Per capita consumption of fish in Tanzania, equal to total production plus imports and minus exports, has decreased from 1990 levels. According to statistics from the Food and Agriculture Organization (FAO), Tanzania had a per capita consumption level of 16.4 kg/year in 1990. By 2017, however, that same statistic was just 7 kg/year. The annual per capita fish consumption rate increased to 8.5 kg in 2020 (MLF, 2021). Low per-capita consumption was mainly due to the supply of fish, which has stayed relatively steady at around 300,000 t per year since 1990 while the population has more than doubled in that same period. Figure 6 shows how the aquatic food supply declined and then stagnated during the early 2000s until 2012. There have been some gains in supply since 2012, due in part to increased fish imports; however, demand for fish consumption is still outpacing supply, causing an estimated demand gap of approximately 300,000 t. comparatively, as shown in figure 7, fish consumption globally increased by 3.1% per year on average between 1961 and 2017 (FAO, 2020). Globally, per capita fish consumption increased from an annual average of 9 kg in 1961 to 20.5kg in 2016, significantly higher than Tanzania's fish consumption. As global capture fishery production has been relatively stagnant for roughly 30 years, the global trend of increasing fish consumption can be attributed mostly to the proliferation of aquaculture, which is not the case for Tanzania, where aquaculture production is still low.



Figure 6: Population and GDP growth (top) and food supply (bottom)  
 Source: World Bank 2021 and Eurostat-OECD 2021 (top); FAO 2021 (bottom)



Figure 7: Per capita fish consumption: Tanzania vs. the world  
Source: FAO 2020b

## Drivers of Fish Consumption in Tanzania



Negative attitudes toward fish are not the reason for the low levels of fish consumption in Tanzania. Nor is it low demand, with the demand gap for fish estimated at around 300,000 t (MLF, 2020b). Growth in fish demand is primarily fueled by four factors: (i) population growth, (ii) economic growth, (iii) evolving

consumer preferences and (iv) relative prices (Chan and Prager et al., 2021; Naylor et al., 2021; Wang et al., 2021). According to FAO data, the Tanzanian population grew at an average rate of 2.83 % per year from 2000 to 2017. Demand for fish will likely grow linear in relation to population, which translates into a possible 43% increase in fish demand by 2030. Furthermore, demand has been seen to be a normal good, meaning it increases as income increases. This positive relationship has been analyzed by Abdulai and Aubert, (2004), who estimate elasticities between income and animal protein in Tanzania (e.g., fish) at 1.04. This indicates that fish demand may increase at a slightly higher rate than GDP. With Tanzania's GDP having increased at an average of 4.6% per year between 2000 and 2017, fish demand will continue to rise by at least that rate. Taking this all into account, upward pressure from population and economic growth should more than double the quantity of fish demanded by 2030. In addition to these influences, consumers' attitudes and cultural change also play a large part in determining fish

demand. In an article analyzing consumer preference in Tanzania, 95% of respondents showed a strong willingness to consume fish because of its health benefits (Wenaty et al., 2018). Recent publications concerning healthy livelihoods and diets have underlined the importance of fish consumption for multiple health benefits. For example, Ahern et al., (2021) find that fish consumption has the potential to reduce the risk of multiple serious health issues and promote childhood development. As consumers become aware of the health benefits of fish consumption, demand may subsequently increase. Other determinants of demand for fish and other aquatic and terrestrial sourced animal foods include years of schooling for women, household size, accessibility and convenience (Abdulai and Aubert 2004; Wenaty et al., 2018).

## **Fish Prices**

### **Capture**

As shown in figure 8, fish prices from capture fisheries in Tanzania have been trending upward since 2000 (MLF, 2021). Further breakdown of fish prices by species or group within capture fisheries is challenging because data is limited; however, the literature provides some sparse examples that follow similar trends to the aggregated data shown in figure 8. In Lake Victoria, where most inland fish are landed in Tanzania, the Nile perch was worth about USD 1000 t in 2005 and around USD 2100 t in 2014. Additionally, between 2012 and 2014 the total value of the Dagua fishery in Lake Victoria more than doubled even though there was a decrease in total catch (LVFO, 2016). A similar trend has been seen for the prices of high-value species from the pelagic fishery, such as tuna and king mackerel. For example, the price of tuna has increased by approximately 48% from USD 1863 t in 2011 to USD 2763 t in 2019 (Igulu et al., 2013; Maskaeve et al., 2019). The drastic rise in the price of fish reflects growing scarcity and stagnation of supply against a growing population with an increasing appetite for fish. This trend in prices is negatively affecting livelihoods in Tanzania, as high prices are forcing many Tanzanians to forgo eating fish even though there is a strong demand and willingness to include it in their diet (Wenaty et al., 2018).



Figure 8: Aggregate capture fishery prices  
Source: MLF 2022

## Aquaculture

Prices of farmed fish are on a similar trend to capture fisheries in Tanzania, as shown in figure 9. Price data for aquaculture is comparatively more readily available than for capture fisheries and can be accessed through FAO. Although aquaculture prices have increased since 2005, they have not seen the drastic increases that capture fishery prices have. There are some differences when comparing the value of marine aquaculture and marine capture fish; however, this is most likely due to the variability of the species being produced and quantity differences. Furthermore, the reliability of fisheries-specific data has been questioned in the developing world. Price discrepancies may be generated from varying reported yields and values. Yields in the African region have been reported to underestimate catch by as much as 30% (Jacquet et al., 2010).

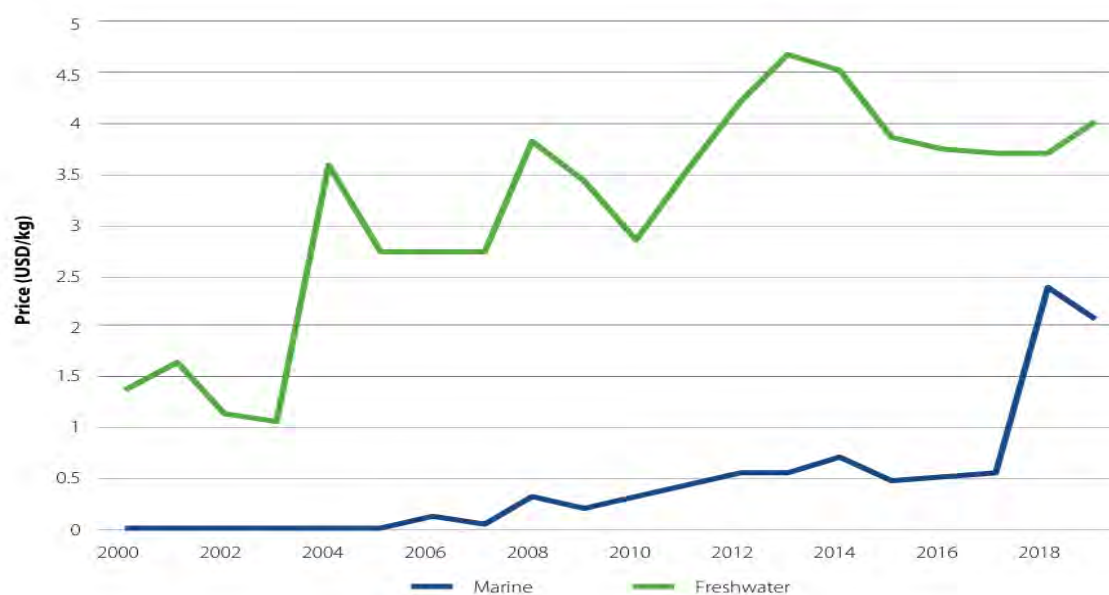


Figure 9: Aquaculture prices by species  
 Source: FAO 2021

## Fish Trade

### Quantity

The import and export data for Tanzania from FAO is displayed in figure 10. It should be noted that the data provided by FAO regarding trade may not include some instances of unreported trade occurring across neighboring countries within Africa. While fish exports from Tanzania have remained relatively constant since the year 2000, possibly showing a slight negative trend, fish imports increased steadily from less than 400t in 2,000t to a peak of about 25,000t in 2016 (figure 10). This was most likely due to an increasing domestic supply shortage of fish until 2016, after which domestic production increased slightly and helped reduce the number of fish imported. In 2016, net exports were only 9000 t. However, Tanzania is still a net exporter of fish with a yearly average of 40,000 t of exports between 2010 and 2017. This quantity is predicted to grow as the international market becomes more accessible for Tanzanian fishers. With the introduction of more modern capture and aquaculture practices and infrastructure, such as cold storage and processing facilities, meeting international fish processing and storage regulations will allow more fishers to enter the international market. Being a net exporter indicates two things: (i) a domestic supply surplus allowing large exports; or, (ii) high international prices relative to domestic prices are such that they incentivize selling abroad rather than domestically. Overall, in Tanzania, there are stable exports while imports increased until 2016 and then decreased dramatically, due to food supply increases.



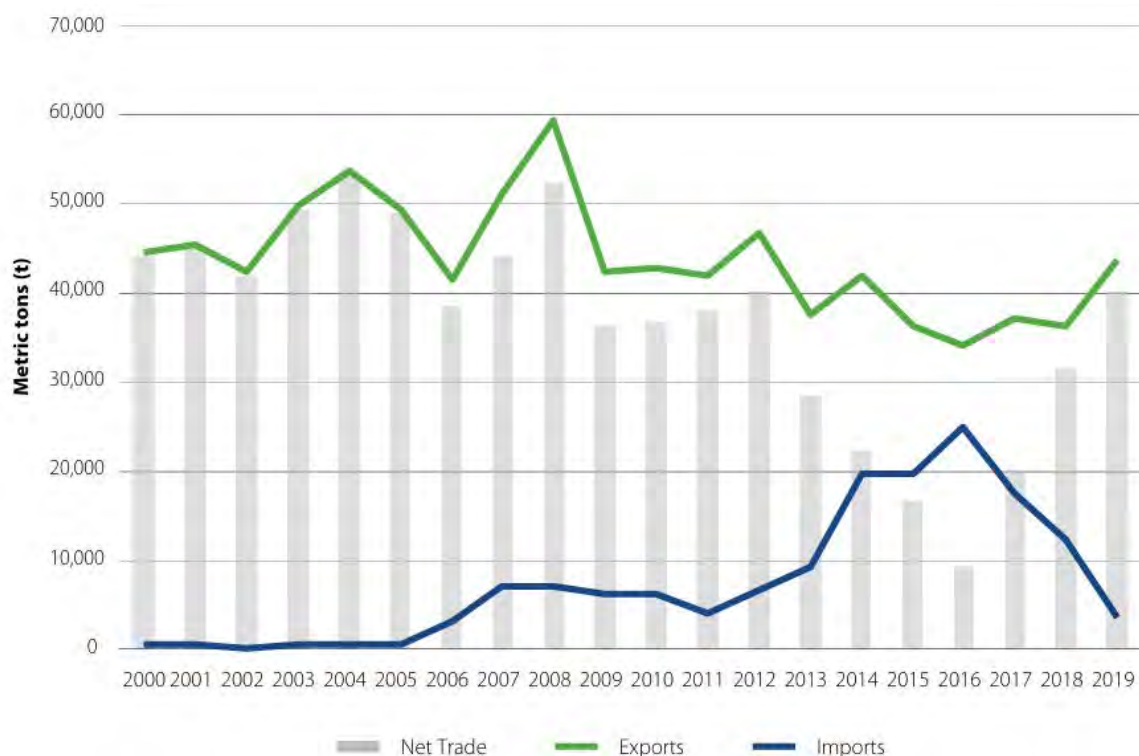


Figure 10: Fish exports and imports for Tanzania  
 Source: FAO 2021b

### Trade Value

Although the reported quantity of fish exported by Tanzania has not seen any sustained growth since 2000, the value of those exports has substantially increased. Overall, fishery exports provide an important source of income for fishers and boost GDP. As shown in figure 11, Tanzania exported approximately 45,000 tons of fish products in 2000 for almost USD 100 million. For comparison, in 2019 Tanzania exported 43,000 tons of fish with a reported value of USD 186 million, almost double the value of exports in 2000 even though a lesser quantity of fish was exported. The value of imports on the other hand has remained relatively stable, following a similar trend to the quantity of imports. Importing relatively low-cost fish into Tanzania reflects an effort to curb domestic demand for cheap fish, and not an increasing demand for high-priced exotic species of fish.

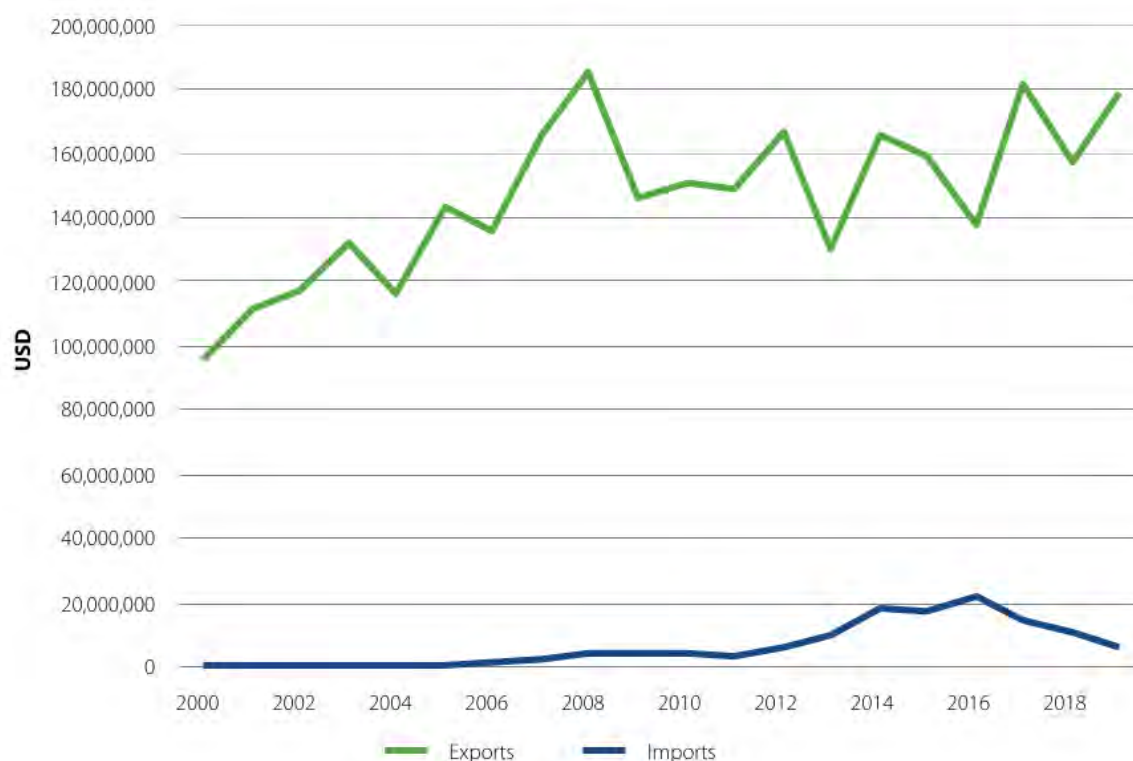


Figure 11. Value of Tanzania's fish exports and imports  
 Source: FAO 2021b

### Business-as-usual (BAU) findings of the Fisheries Sector

The feasibility study findings are a result of an analysis that considered the impacts of several shocks on economic growth, sectoral production and prices. The base year is 2019, and the information on simulated results was found and compared to the BAU path of the fisheries sector to determine the shock impacts.

Results from the BAU scenario indicate that by 2035 the demand in fisheries and the relative supply in Tanzania will be high, as shown in Table 1. With a total productivity growth rate of 2.4% per year, the total production of the marine capture fisheries is projected to increase 29.7% by 2035, the production of inland fisheries 29.5% and aquaculture production 21.7% by 2035 compared to the base year 2019 (Table 1). The projection for demand indicates rising aggregate fish consumption for all species, as shown in Tables 1 and 2. Overall consumer demand for domestic fisheries production is projected to increase by 22.5% for inland fisheries and 22.2% for marine fisheries by 2035 (Table 1). An increase in overall fisheries consumption is attributable mostly to population growth. According to national price data, the real farmgate prices of fish from capture and aquaculture fishery sources will increase by approximately 10% annually between 2025 and 2035, as shown in Table 3. The increase in farmgate prices is attributed to the rise in specific and common input prices.

Table 1: Projected growth rate for the BAU scenario

|  | <b>Base year output (t)</b> | <b>2025 (%)</b> | <b>2030 (%)</b> | <b>2035 (%)</b> |
|--|-----------------------------|-----------------|-----------------|-----------------|
| Aquaculture                                    | 18,074                      | 11.6            | 16.7            | 21.7            |
| Capture inland fisheries                       | 387,321                     | 15.1            | 22.7            | 29.5            |
| Capture marine fisheries                       | 62,962                      | 15.2            | 22.9            | 29.7            |
| <b>Consumer demand for domestic production</b> |                             |                 |                 |                 |
| Inland fisheries                               | 365,244                     | 18.7            | 22.5            | 22.5            |
| Marine fisheries                               | 62,324                      | 19.2            | 22.2            | 22.2            |

Source: Tran et al., (2022). Future fish supply and demand in Tanzania

Table 2: Fisheries domestic consumption, BAU simulation

| <b>Species</b>     | <b>Base year output (t)</b> | <b>Deviation from BAU (%)</b> |             |             | <b>Average annual change (%)</b> |
|--------------------|-----------------------------|-------------------------------|-------------|-------------|----------------------------------|
|                    | <b>2019</b>                 | <b>2025</b>                   | <b>2030</b> | <b>2035</b> |                                  |
| Sardines           | 172,184                     | 14.86                         | 21.24       | 26.15       | 1.6                              |
| Perch              | 104,091                     | 16.08                         | 20.26       | 21.03       | 1.3                              |
| Tilapia            | 35,233                      | 12.91                         | 18.84       | 24.39       | 1.5                              |
| Other inland       | 53,736                      | 10.33                         | 14.26       | 18.44       | 1.2                              |
| Catfish            | 788                         | 14.09                         | 20.45       | 25.75       | 1.6                              |
| Reef fish          | 12,567                      | 13.93                         | 20.85       | 27.11       | 1.7                              |
| Coral fish         | 14,629                      | 14.77                         | 21.33       | 26.56       | 1.7                              |
| Prawn              | 787                         | 11.64                         | 11.58       | 8.45        | 0.5                              |
| Tuna and tuna-like | 15,182                      | 22.04                         | 33.01       | 41.51       | 2.6                              |
| Medium pelagic     | 5287                        | 15.79                         | 23.85       | 30.78       | 1.9                              |
| Small pelagic      | 9543                        | 12.07                         | 15.67       | 18.05       | 1.1                              |
| Other marine       | 2068                        | 13.68                         | 9.99        | -0.7        | 0                                |
| Seaweed            | 1449                        | 14.15                         | 21.21       | 27.51       | 1.7                              |
| Milkfish           | 24                          | 10.01                         | 13.56       | 17.41       | 1.1                              |

Source: Tran et al., (2022). Future fish supply and demand in Tanzania

Table 3. Changes in farmgate prices, BAU simulation

| Species            | Base year price (USD) | Projected farmgate prices (USD) |        |        | Average annual change (%) |
|--------------------|-----------------------|---------------------------------|--------|--------|---------------------------|
|                    | 2019                  | 2025                            | 2030   | 2035   |                           |
| Sardines           | 2167                  | 2789                            | 3921   | 5602   | 9.9                       |
| Perch              | 2167                  | 2779                            | 3932   | 5681   | 10.1                      |
| Tilapia            | 2167                  | 2805                            | 3947   | 5629   | 10                        |
| Other inland       | 2167                  | 2827                            | 4000   | 5723   | 10.3                      |
| Catfish            | 3258                  | 4202                            | 5908   | 8432   | 9.9                       |
| Reef fish          | 2167                  | 2796                            | 3925   | 5588   | 9.9                       |
| Coral fish         | 2133                  | 2745                            | 3858   | 5508   | 9.9                       |
| Prawn              | 8690                  | 11,292                          | 16,174 | 23,652 | 10.8                      |
| Tuna and tuna-like | 2167                  | 2731                            | 3799   | 5387   | 9.3                       |
| Medium pelagic     | 2167                  | 2781                            | 3892   | 5534   | 9.7                       |
| Small pelagic      | 2167                  | 2812                            | 3984   | 5730   | 10.3                      |
| Other marine       | 2141                  | 2767                            | 4013   | 6029   | 11.4                      |
| Seaweed            | 300                   | 386                             | 542    | 772    | 9.8                       |
| Milkfish           | 3041                  | 3953                            | 5626   | 8056   | 10.3                      |

Source: Tran et al., (2022). Future fish supply and demand in Tanzania

## **MFL CONTRIBUTION TO THE ECONOMY**

According to Zion market research report (2023), the global Tilapia industry is estimated to grow annually at a Compound Annual Growth Rate (CAGR) of over 3.9 % over the forecast period (2023-2030). In terms of revenue, the global Tilapia market size was valued at around USD 9.7 billion in 2022 and is projected to reach USD 10.5 billion, by 2030. The report stipulated further the global Tilapia market is projected to grow at a significant rate due to the affordability and cost-effectiveness of tilapia compared to other popular seafood options.

MFL investment is expected to contribute to food and nutrition security, national, and rural economies. The study shows that there is a huge uncovered market for Nile Tilapia fish in Tanzania, whereby the main buyers of fish are individuals, hotels, schools, hospitals, food service providers, institutions, and fish processing plants. Currently, according to Tantrade, the market price for 1 kg ranges from TZS11, 000/- 12,000/- (wholesale price) and TZS11, 500/-12,000/- (retail prices) for Dar es Salaam and nearby regions markets.

With efforts to secure potential markets, MFL has signed a sales agreement with Alpha Krust Limited to purchase 500 tons of tilapia fish per month. The contract has stated the purchasing price of TZS 5,500 for fish that will attain 250gm and TZS 3,000 for kg of fish that will be below 250gm per kg of tilapia fish. In the long run, the promoter plans to process the harvested fish using their factory that will be constructed in the project area, the processed fish will be exported to African and European markets including Ghana, the United States of America (USA), Germany, France, the United Kingdom, and Spain. The increased demand for tilapia fish in Western countries is due to increased awareness of white fish consumption benefits and the growing popularity of seafood-based cuisines. The growing prevalence of chronic diseases and lifestyle disorders is a strong lifestyle shift and increased demand for healthy food.

The business will provide permanent employment opportunities to more than 100 people including youth



and women and several casual laborers for carrying out different activities from fish cage farming installation, fish farm management, and construction of fish processing. The Investment will also contribute to government revenue by paying taxes.

## **Legal, Regulatory and Institutional Framework for Aquaculture in Tanzania**

The aquaculture sector in Tanzania is vested in the national legislation, which includes The Fisheries Act, 2003, The Fisheries Regulations, 2009, the Tanzania Fisheries Research Institute Act, 2016, and other inter-sectoral Acts such as the Water Resource Management Act, 2009 and the Environmental Management Act, 2004. The Director of Aquaculture Development Division governs the day-to-day activities of aquaculture. The Fisheries Act, 2003 with its Regulations (The Fisheries Regulations, 2009) currently governs the management and development of aquaculture. It ensures the long-term sustainable use of aquaculture products by integrating all laws on aquaculture to permit the growth of the sector in Tanzania. The Act streamlines the sector to respond directly to matters concerning aquaculture development, and to comply with other rules and regulations for protecting the environment from adverse impacts, which may arise from aquaculture activities. For instance, section 11(1) of The Fisheries Act, 2003 that reads together with Regulation 35 of The Fisheries Regulations, 2009 requires that the Director of Aquaculture in a joint effort with stakeholders to make sure that aquaculture practices are carried out sustainably and should not damage the quality of the environment. The aquaculture regulations direct the procedure to be followed when a fish farmer intends to establish an aquaculture project.

The size of the project or the farm determines the kind of procedures (figure 12), for instance, large-scale aquaculture farmers are required to carry out an Environmental Impact Assessment (EIA) study before the establishment of the project. The EIA study foresees the impacts of the proposed project and suggests mitigation measures as well as the environmental 8-9 monitoring plan. The investor or proponent seeks advice from an environmental expert and conducts an EIA study through the National Environmental Management Council (NEMC), which is mandated by the Environmental Management Act (EMA), 2004 to review the environmental impact statements, and recommends approval and certification by the Minister responsible for the environment. The EIA certificate is issued with specific conditions and guidelines for the implementation and monitoring of the project such that the project is sustainable while protecting the environment. On the other hand, the Tanzania Fisheries Research Institute Act, 2016 provides competencies and powers concerning development and reinforcing research on aquaculture activities. The Act mandates the Tanzania Fisheries Research Institute (TAFIRI) to promote, conduct, and coordinate research in fisheries and aquaculture in Tanzania under Section 6(1) of the Tanzania Fisheries Research Institute Act, 2016. The Act also mandates TAFIRI to monitor and regulate aquaculture activities aiming to develop better fish farming practices, manufacturing and processing of fish products; as well as protecting the aquaculture sector. Moreover, procedural guidelines for establishing aquaculture projects in Tanzania are outlined in figure 12.



| Small Scale Farm (< 1 hectares)   | Large/Commercial scale Farm (5 hectares and above)   |
|---|--|
| Consult Local and District Government Authority (District Fisheries Officer)        | Apply for a permit from Director of Aquaculture as prescribed in QA/APP/14 set out in the fifth schedule of Fisheries Regulations 2009         |
|   | Conduct Environmental Impact Assessment (EIA) or Preliminary Environment Assessment (PEA) under National Environment Management Council (NEMC) |
| Guidance in regard to their land use plan, water use permit and other by-laws       | <b>Documents required</b>  |
|    | <i>Land ownership/title deed</i>   |
|   | <i>Environmental Impact Assessment Report</i>  |
|   | <i>Layout plan of the farm(s)</i>  |
|   | <i>Water User Right permit</i>   |
|  | <b>Permit for Large Scale Aqua Farming (QA/APP/14)</b>   |
|   | <b>Certificate of Approval for Fish or Aquaculture Establishment (QA/APP/01)</b>   |
| <b>Permit for Aquaculture Farming (AQ/APP/14)</b>                                   |  |

Figure12: Procedural guidelines for establishing aquaculture projects in Tanzania.  
 Source: Rukanda & Sigurgeirsson, (2018)

## MFL Investments and Technical Information

### Location of the Investment

The location of the investment has been done strategically; the investment is located in an area that has desirable characteristics for cage fish farming as proposed by TAFIRI. The investment will access consultancy and development services from TAFIRI which is located within the Mwanza region as well as from the fisheries department within Ukerewe district. MFL plan is to establish a fish cage farming by installing fish caging infrastructures with a layout as depicted in figure (13). On the other hand, MFL will construct production unit/breeding site (figure 14) whereby fish fingerling will be produced and sold to various fish farmers within the country. Not only this but also, in the production unit, store and cold chain storage facilities be installed for fish handling.

To secure the quality of fish harvested, the company will use transport logistics which are equipped with cold chain for transporting fish and fish products to various market outlets. Figure 15 shows a layout of MFL production site.

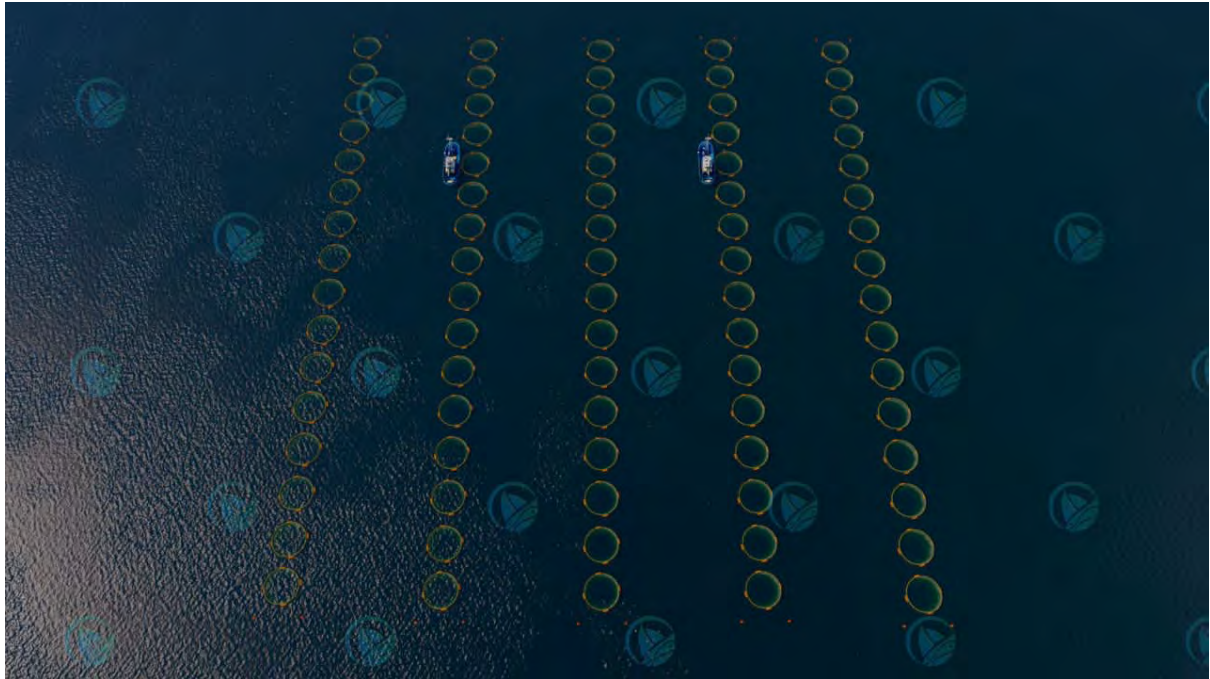


Figure 13: A proposed fish cage arrangement



Figure 14: A proposed building layout for the breeding site/production unit



Figure 15: A proposed layout of MFL production site

### Hatchery Management and Tilapia Fingerling Production

Breeding programs are crucial for boosting productivity and increase sustainability of aquaculture. Available information shows that, over the years, Tanzania has witnessed fluctuation in its capture fisheries production from 320,900 to 375, 535 and back to 362,595 metric tons in the years 2000, 2005 and 2016, respectively (URT, 2017). The declining trend in fish production has made fish supply in the country unstable and conversely, increased the demand for fishes to about 730,000 metric tons in 2017. However, the local aquaculture production has not increased accordingly. Information shows that, Tanzania is importing fish mainly from Asia to meet its increased demand. The feasibility study revealed that, in 2017, a total of 2,055,721 kg of frozen tilapia were imported from China and Mozambique (URT 2017).

It was observed that, currently in Tanzania there are 17 existing hatcheries, but only 12 hatcheries are active, however, these hatcheries are not performing well due to low investment and technology leading to the production of low quality and quantity fingerling. Based on this scenario MFL, in implementing fish cage farming investment will also start best and modern fish-breeding facility a breeding program that will involve hatchery management and fingerling production within the farm.

Among the method for breeding purposes within the farm which is highly recommended is the YY technology, because, it is high yielding technology compared to others. It is stipulated that; fingerlings will come from the best breed of *Oreochromis Niloticus* (Nile tilapia) which is purely African breed of Tilapia that is adaptive to all weather environment with high proven growth and low mortality rates. It was observed that the YY male tilapia technology is based on the genetic manipulation of sex. This is achieved through a combination of feminization and progeny testing to identify the novel YY

genotype (Figure 16) that sires only XY natural male progeny (figure 17) or natural male tilapia.

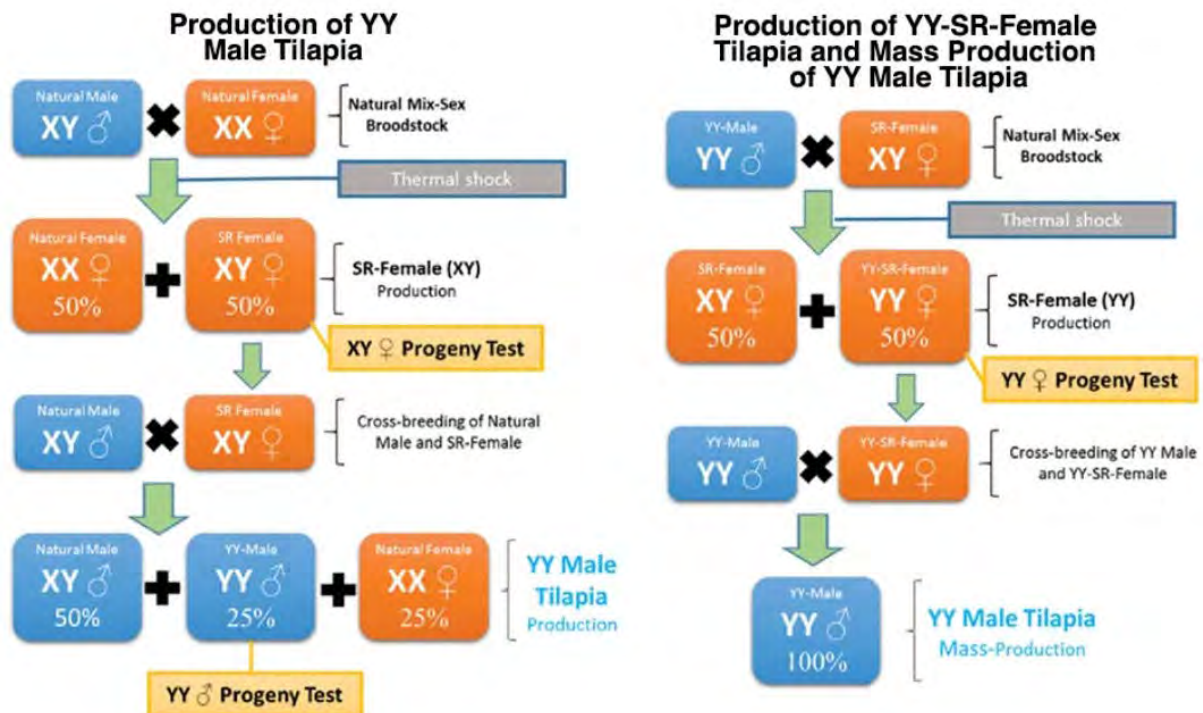


Figure 16: Schematic production of YY male tilapia and mass production through YY SR female tilapia

This technology is especially important when producing tilapia in countries where the use of hormones is prohibited in the production of food products (Tanzania as an example). Also important is the increasing interest of major markets for sustainable and environmentally friendly food sources.

Figure 17 reveals the progeny testing XY females with normal XY males should spawn 75 percent males (25 percent YY and 50 percent XY), and 25 percent XX females result from the XY-XY mating. Male progeny from this mating is then grown for a second generation for progeny testing. When the YY males are test crossed with normal XX females, 100 percent XY male progeny result.

## Production of Natural Male Tilapia Through YY Male Technology

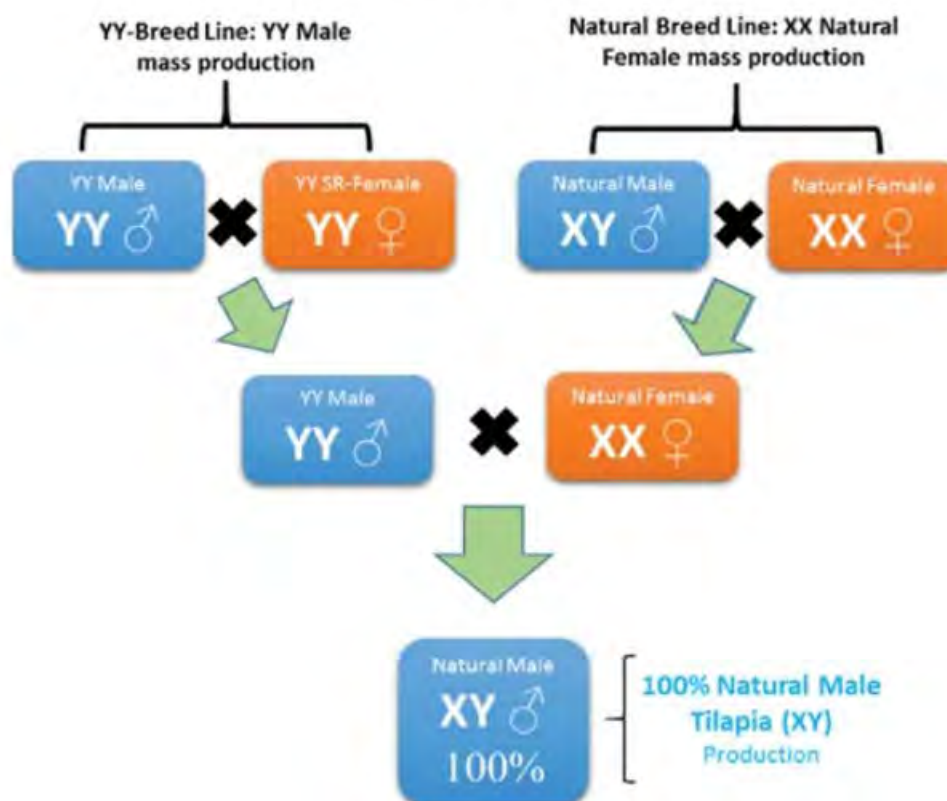


Figure 17: Schematic production of natural male tilapia sired by YY male tilapia

Among the benefits of the YY technology is safer for farm operators because it avoids the health risks associated with the use and handling of hormones. Hormones can be harmful to humans if swallowed or absorbed through skin and/or inhalation, and have a danger of cumulative effects. The commonly used hormone methyl testosterone (M.T.) is considered carcinogenic and can cause liver damage or interfere with normal reproductive functions in humans and animals. YY male technology is safer for fish and results in greater fingerling survival rates, as it avoids the health risks associated with hormone usage. Moreover, the use of YY technology prevents many environmental impact risks that hormone residues in the production water, units and system waste could have. It also reduces ecological impacts on wild populations when farmed stocks are released through restocking programs and/or accidental escapes.

The YY technology is estimated to produce 2,000,000 fingerling per month. The consumption of MFL per month in the first year is projected to be 694,105 fingerling per month for first year, 1,388,211 fingerling per month for second year, 2,082,316 fingerling per month for third year etc. the produced fingerling has proven with quick growth and low mortality, the fingerling will be kept in nursery pounds for two months before transferred to rearing cages. Therefore, MFL will be in a position to trade on issues related to fingerlings.

Quality fingerlings is a key ingredient for the competitive aquaculture industry. Available information shows that in 2019, the total fingerlings were 17,301,076 including 6,221,076 fish fingerlings and 11,080,000 prawns' seeds. Most of the fingerlings are mono-sex tilapia and are from both public and private hatcheries. There is a total of seven tilapia hatcheries with the capacity to produce over 20,000,000 fingerlings per year but they can produce only below 7,000,000 Tilapia fingerlings (figure 18).

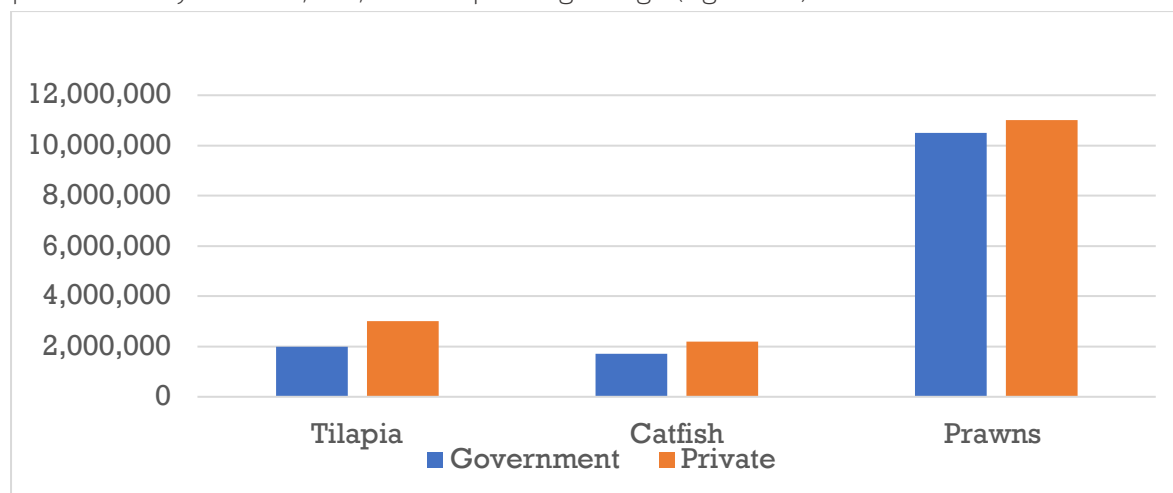


Figure 18: Annual Fingerling Production  
Source: MLF 2021

There is high demand for quality fingerlings and affordable fish feed for the Nile tilapia. However, there are some emerging issues existing amongst farmers and fingerling producers. Fingerling producers claim there are no buyers for fingerlings but apparently farmers buy fingerlings from Kenya and Uganda claiming that there is no fingerling in Tanzania. Therefore, with MFL initiative on producing high quality fingerlings will reap this business opportunity as the demand for Tilapia fingerlings is high compared to production levels in Tanzania.

### Fish Feed Availability

Despite the presence of several companies in fish feed manufacturing, still, timely and adequate feed availability is a major impediment in the aquaculture industry in Tanzania. The feasibility study reveals that, suppliers and producers of fish feed produce and supply feed at low volumes, which is a great endeavor are not sustainable and consistent throughout the year. In consideration of this challenge, MFL has signed a contract with Aller Aqua Company (from Zambia), which is a renowned fish feed producer in the world, to supply fish feed in every month of operations. The agreement entered entailed MFL to import in every month fish feeds of about 259t. The feasibility also revealed that, in Tanzania, an approximate wholesale price for fish feed pellets ranges between TZS 3,400/- and TZS ,5200/- per kilogram in Dar es Salaam and Mwanza regions (Tanzania Fish Pellets Prices, 2024). On the other hand, MFL will utilize Tanzania fish feed producers such as; Eden Agri-Aqua Services, Jans Aqua Centre, TanFeed, Kise Farm, Kisima Farm, Hill Feed Company, Feed and Fingerlinks Co.Ltd, Aquasol Tanzania Ltd and Mother and Child Hope (Mcheeo) as a backup plan.

## PROJECT ENVIRONMENTAL IMPACTS

Despite the advantages of aquaculture, namely the supply of food, the creation of employment, and income for developing economies, aquaculture is often criticized for its environmental consequences (Bouwmeester et al., 2021). Aquaculture may result in the direct destruction of ecosystems (Casadevall et al., 2021; Martinez-Porchas & Martinez-Cordova, 2012) such as mangrove for aquaculture farms (e.g., tropical shrimps) and discharge of waste into the ecosystem, which can affect microbial functions and water quality (Chen et al., 2017; Martinez Porchas & Martinez-Cordova, 2012). Another ecological effect that can affect aquaculture itself is associated with diseases such as salmon lice *Lepeophtheirus salmonis*). The translocation and introduction of aquaculture stocks can result in the co-introduction of pathogens and parasites. In addition, aquaculture activities may cause the shift of native species as the escaped fishes from cages interact with wild fishes (Bouwmeester et al., 2021; Casadevall et al., 2021; Martinez Porchas & Martinez-Cordova, 2012). Overfeeding fish is another aspect that can influence susceptibility to diseases and infection as well as enhancement of greenhouse emissions because of pollutant discharge (Yogev et al., 2020). Unconsumed feed because of overfeeding may bring about eutrophication that could cause phytoplankton blooms, loss of life of benthic organisms, as well as unwanted smell and the presence of pathogens in the discharge sites (Martinez-Porchas & Martinez-Cordova, 2012). Thus, for a sustainable aquaculture practice and environmental protection, there is a need for improvement of aquaculture regulations and laws to minimize the impacts, which may arise from aquaculture activities (Martinez-Porchas & Martinez Cordova, 2012).

### Environmental impacts of cage fish farming

Expansion of cage fish farming systems may lead to increased nutrient concentrations in lakes. Impacts may include the increase of eutrophication, poor water quality, diseases, and parasite spread and destruction of ecosystems (Gondwe, Mangaliso John Gibson Symon, 2009; Kashindye et al., 2015; MENSAH et al., 2018; Mwebaza-Ndawula et al., 2013; Sitoki et al., 2010; Troell & Berg, 1997).



## Nutrient loading in water environments

Extensive cage fish farming in lakes can influence changes in concentrations of nutrients. These nutrients, phosphorus (P), ammonia (NH<sub>4</sub>), and nitrogen (N); are important for the growth of animals and plants, however, their excessive release in water columns can result in several effects both healthy and ecological impacts. Nitrogen regulates the developmental rates of algae in marine ecosystems while phosphorus often limits their development in freshwater ecosystems. In Lake Victoria's water surface, both N and P have low concentrations suggesting the fundamental limitation in the lake. Thus, a low ratio (N: P) of waste in cages may accelerate the growth of Nitrogen-fixing organisms in the water columns with increased toxicity which may affect fish, humans, and other aquatic organisms (Gondwe et al., 2011).

Excessive discharge of nutrients in the water environment has critical impacts such as overgrowth of algae and some aquatic plants as well as eutrophication. The escalated growth of these organisms may result in clogging of water intakes, depletion of dissolved oxygen as they grow, and blocking of light in deep waters. Eutrophication promotes unsightly algal blooms which can cause death of fish and other aquatic species hence affecting both animal and plant diversity of the lake. On the other hand, excessive nitrogen in the form of nitrates in drinking water is detrimental to young animals as it limits oxygen transportation in the bloodstream; and high levels of phosphorus in the form of phosphates can cause digestive problems (Kashindye et al., 2015; Rohrlack, 2020). Moreover, dissolved ammonia (NH<sub>4</sub>) forms a weak base in water. Unlike N and P, NH<sub>4</sub> in water is not toxic to humans; however, high levels of NH<sub>4</sub> have a direct toxic effect on aquatic life. The toxicity depends on the levels of pH and temperature of water, thus, variations in levels of pH and temperature (low or higher levels) accelerate the toxicity of NH<sub>4</sub>. Animals are less tolerant of NH<sub>4</sub> toxicity than plants. Likewise, invertebrates are more tolerant to NH<sub>4</sub> toxicity than fishes; hence, the growth rate of fish can be affected by high levels of NH<sub>4</sub> toxicity. In addition, bacteria can convert NH<sub>4</sub> in water to nitrates (nitrification process), which in turn causes the death of fish and other aquatic organisms due to difficulty in breathing caused by low dissolved oxygen in water.

## Water quality changes associated with cage farming

The health of fish in cages is influenced by the quality of water. Changes in the quality of water may result in fish stress, diseases and parasites, a situation, which can lead to poor fish products, reduced profit and human health impacts (Devi et al., 2017). Since fishes in cages are constantly supplied with nutrition, nutrients in excess enrich the surrounding water with dissolved organic and inorganic matter, which can lead to changes in DO, pH, temperature and/or water transparency (Kashindye et al., 2015). DO can be used as an indication of the degree of pollution in cage fish farm activities. Water temperature, nutrients and the rate of respiration and photosynthesis may affect the concentration of DO (Devi et al., 2017; Kashindye et al., 2015). High temperatures reduce the solubility of oxygen in water hence less oxygen to aquatic organisms leading to suffocation and finally death whereas high nutrient concentrations lead to excessive plant growth, causing a

decrease in DO due to respiration and decomposition (Devi et al., 2017). Commonly, the hydrogen ion concentrations (pH) in water columns influence fish productivity. However, the increase of wastes in water due to uneaten feed or other pollutants may lower the pH whereas the increase in respiration or photosynthesis activities may result in the rise in pH. Thus, the lower the pH, the more acidic the water is while the higher the pH, the more basic it is (Kashindye et al., 2015; Owuor et al., 2019). Extreme pH (low or higher) kills fish and other aquatic organisms directly. For instance, when the pH of freshwater is higher, the water becomes alkaline which causes death to fish due to damage to gills and an ability to excrete (Owuor et al., 2019). Moreover, suspended solid materials from cages due to excess feed and excretions from fish or other activities around cage farms reduce the light penetration in deep water which affects algae and phytoplankton activities (Devi et al., 2017).

### **Fish Cages, Non-native Species, Diseases and Parasites Occurrence**

Fish escapes from cages is an inevitable global occurrence that threatens the health of both wild fish and farmed fish. The impacts include the introduction of alien species, disease spread and/or permanent change in genes of both cultured and wild fish. Studies indicate that about one-third (32%) of the global marine ecoregions are threatened by the impacts of fish escapees (Atalah & Sanchez-Jerez, 2020). In addition, poor management of cage fish farming systems can lead to diseases and parasites spread in cages due to a rise in stress levels, which reduces the immune system of fish. Environments with high levels of nutrients attract the growth of bacteria and fungi, which can cause blocking and lowering of BOD in cages. Such conditions lead the stocks to parasitic or disease infections.

#### **Impacts of cage fish farming on biodiversity**

Lake Victoria is endowed with a high number of biodiversity (Sayer et al., 2018; Sayer et al., 2019). Experience shows that Lake Victoria comprised about 20 sub-families and 600 fish species mostly (about 80%) occupied by cichlids (Katunzi et al., 2017). Before the intensive fishing and the invasion of *Lates niloticus* (Nile perch), the ecosystem of Lake Victoria constituted a large number of haplochromine species.

However, fishing intensification and the introduction of a predator *Lates niloticus* contributed to the decline of the haplochromines, as a result only the *Lates niloticus* and *Oreochromis niloticus*; and the native *Rastrineobola argentea* (cyprinid) dominated Lake Victoria (Kayombo and Jorgensen, 2006; Kolding et al., 2014). In addition, a large part of Lake Victoria basin comprises swamps and wetlands which are habitats of mammals such as crocodiles, hippopotamuses and birds (Okeyo-Owuor et al., 2012) whereby the Lake banks are dominated by *Cyperus papyrus* and *Miscanthidium violaceum* flora (Kansiime et al., 2007).

Furthermore, cage fish farming practices in Lake Victoria can cause localized and significant variations in the structure of macroinvertebrate communities. Studies showed an increased number of pollutant-tolerant species in the Lake suggesting that organic compounds probably from cages have polluted the area. Lake Victoria is endowed with a high number of biodiversity (Sayer et al., 2018; Sayer et al., 2019). Experience shows that Lake Victoria comprised about 20 sub-families and 600 fish species mostly (about 80 %) occupied by cichlids (Katunzi et al., 2017). Before the intensive fishing and the invasion of *Lates niloticus* (Nile perch), the ecosystem of Lake Victoria constituted a large number of haplochromine species.

However, fishing intensification and the introduction of a predator *Lates niloticus* contributed to the decline of the haplochromines, as a result only the *Lates niloticus* and *Oreochromis niloticus*; and the native *Rastrineobola argentea* (cyprinid) dominated Lake Victoria (Kayombo and Jorgensen, 2006; Kolding et al., 2014). In addition, large part of Lake Victoria basin comprises swamps and wetlands which are habitats of mammals such as crocodiles, hippopotamus and birds (Okeyo-Owuor et al., 2012) whereby the Lake banks are dominated by *Cyperus papyrus* and *Miscanthidium violaceum* flora (Kansiime et al., 2007).

Furthermore, cage fish farming practices in Lake Victoria can cause localized and significant variations in the structure of macroinvertebrate communities. Studies showed an increased number of pollutant-tolerant species in the Lake suggesting that organic compounds probably from cages have polluted the area.

### **Socio-Economic Impacts of Cage Fish Farming**

Cage fish farming is a positive venture that may offer a chance for socioeconomic improvements such as the creation of employment, food security, and improving economic well-being. Cage fish farming contributes also to the industrial and sector linkage in manufacturing, construction and transportation (Aura et al., 2018; Ghana & Brummett, 2010). The degrees of benefits vary from one area to another due to differences in farming practices (Anjejo, 2019) as well as on other factors such as the type of species cultured, the level of management, the level of investment, the availability and reliability of fish market (Aura et al., 2018).

## **CLOSING REMARKS**

### **Establishment of Fish Cage Farming by MFL**

The collected and analyzed information, revealed that it is feasible for MFL to establish a fish cage farming system in Lake Victoria at Buzegwe, village, Ukerewe district. The area has favorable characteristics recommended by TAFIRI for cage fish farming in Lake Victoria, Tanzania. MFL will also comply with the legal and regulatory frameworks governing cage fish farming in Lake Victoria Tanzania: Conducting EIA which will be supervised by NEMC as well as obtaining permission and certificates for establishing cage fish farming. On the other hand, technical expertise on fish caging systems is available in the area (through the district fishery office) as well as consultation from TAFIRI will also be of added advantage. As Ukerewe is located within the Mwanza region where there are several institutions involved in fish fingerling breeding and hatching as well as fish feed preparation, MFL will utilize this opportunity as an advantage for igniting cage fish farming operations. Moreover, on the market side, the demand for fish is increasing at an increasing rate and this is coupled with an increase in the price of fish. The analyzed information shows the demand for fish and its price will keep increasing up to 2030. The establishment of fish cage farming by MFL will also be in-line with the commencement of the fish fingerling production unit whereby YY technology will be used for tilapia fish breeding. The fingerlings will be used by MFL and others will be traded in the market to fill the gap in demand of fingerling by other fish farmer. The feasibility study reveals that all business opportunity (cage fish farming and fingerling production) is feasible due to potential market available in Tanzania and nearby countries.

### **Sustainability of Cage Fish Farming in Lake Victoria, Tanzania**

Cage fish farming practice is an anticipated venture to increase fish production in Lake Victoria, Tanzania. It is a high-yielding type of aquaculture with important social and economic benefits, the creation of jobs, food security, income generation, and improvement of infrastructures for the communities along the Lake. The literature showed that currently, cage fish farming practices in the Lake have few negative impacts on the Lake environment. Although the variations in nutrient concentration in the Lake is expected to be high due to the increased cage farms whereby more feed may be consumed by caged fishes, most studies showed that the impacts of nutrient release from fish cages were minimal with insignificant impacts on the Lake environment.

The situation can be explained by several reasons such as (1) the cage fish capacity is low, hence the little release of wastes from feed (2) the consumption rate of wastes by wild fishes aggregating the cages is high (3) cage wastes are rapidly dispersed by water currents due to openness nature of the Lake to wind currents (4) differences in sampling time which is done before or after feeding at the cage stations and/or (5) the study size sample small because some of the studies on cage farms were done as experimental trials (for example on the side of Lake Victoria, Tanzania) (Kashindye et al., 2015).

On the other hand, the observed increase in values of nutrients may be due to the release of uneaten feed from the cages or by low water movement caused by the fish cages and/or by other activities such as agricultural activities along the Lake. The variations in levels on selected physicochemical parameters (pH, DO, temperature and water transparency) were within allowable limits suggesting that no immediately recognized impacts of the fish cage facilities on water quality probably due to (1) the non-existence of small changes in weather patterns in the Lake and/or (2) there is moderate nutrient loading from cages.

However, there is an indication of the plausible impacts of cage activities on the quality of water in the studied cage fish farms. In addition, cage fish farming may affect the composition of macroinvertebrate communities, which can be observed by a change in the composition of species as well as the increase of pollutant-tolerant organisms in the Lake.

Considering that the cage fish farming system is expected to increase, impacts on the water quality and biodiversity of Lake Victoria linked with cage fish farming can be avoided or minimized by:

1. Cage farmers use appropriate technical instructions and adopt good cage fish farming production schemes (such as better management practices and proper cage siting) as well as comply with aquaculture rules and regulations
2. Undertaking future studies on the impacts of cage fish farming on the water quality and biodiversity
3. Controlling the fish stock relative to cage farm size
4. Routine monitoring of sediment and water quality along cages as well as monitoring of the types of feed
5. Qualified and trained workers or managers to use modern technologies for fish farming techniques development
6. Expanding the fish farm rotation and using self-sufficiency cultivated crops for feed ingredients

## REFERENCES

- Abdulai A and Aubert D.(2004). A cross-section Analysis of Household Demand for Food and Nutrients in Tanzania. *Agricultural Economics* 31(1):67–79. doi: 10.1111/j.1574-0862.2004.tb00222.
- Anjejo, K. O. (2019). *Cage Fish Farming and Its Effects on Livelihoods of Fisherfolk within Anyanga Beach, Siaya County, Kenya* (Doctoral Dissertation, University of Nairobi).
- Aura, C. M., Musa, S., Yongo, E., Okechi, J. K., Njiru, J. M., Ogari, Z., & Oucho, J. A. (2018). Integration of Mapping and Socio-Economic Status of Cage Culture: Towards Balancing Lake-Use and Culture Fisheries in Lake Victoria, Kenya. *Aquaculture Research*, 49(1), 532-545.
- Ahern, M., Thilsted, S., Oenema, S., & Kühnhold, H. (2021). The Role of Aquatic Foods in Sustainable Healthy Diets. *UN Nutrition Discussion Paper*.
- Bostock, J., McAndrew, B., Richards, R., Jauncey, K., Telfer, T., Lorenzen, K., Little, D., Ross, L., Handisyde, N., & Gatward, I. (2010). Aquaculture: Global Status and Trends. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 365(1554), 2897-2912.
- Bouwmeester, M. M., Goedknecht, M. A., Poulin, R., & Thielges, D. W. (2021). Collateral Diseases: Aquaculture Impacts on Wildlife Infections. *Journal of Applied Ecology*, 58(3), 453-464.
- Brummett, R. E., Lazard, J., & Moehl, J. (2008). African Aquaculture: Realizing the Potential. *Food Policy*, 33(5), 371-385.
- Casadevall, M., Rodríguez-Prieto, C., Torres, J., Eira, C., Marengo, M., Lejeune, P., Merciai, R., & Richir, J. (2021). Marine aquaculture impacts on marine biota. *Frontiers in Marine Science*, 8, 162
- Challouf, R., Hamza, A., Mahfoudhi, M., Ghazzi, K., & Bradai, M. N. (2017). Environmental Assessment of the Impact of Cage Fish Farming on Water Quality and Phytoplankton Status in 42 Monastir Bay (Eastern Coast of Tunisia). *Aquaculture International*, 25(6), 2275-2292.
- Chenyambuga, S. W., Mwandya, A., Lamtane, H. A., & Madalla, N. A. (2014). Productivity and Marketing of Nile Tilapia (*Oreochromis niloticus*) Cultured in Ponds of Small-Scale Farmers in Mvomero and Mbarali Districts, Tanzania. *Livestock Research for Rural Development*, 26(3), 3-12.
- Cowx, I. G., & Ogutu-Owhayo, R. (2019). Towards Sustainable Fisheries and Aquaculture Management in the African Great Lakes. *Fisheries Management and Ecology*, 26(5), 397-405.

Çulha, S. T., & Karaduman, F. R. (2020). The Influence of Marine Fish Farming on Water and Sediment Quality: Ildır Bay (Aegean Sea). *Environmental Monitoring and Assessment*, 192(8), 1-10.

Chan CY, Prager S, Balie J, Kozicka M, Hareau G, Valera HG, Tran N, Wiebe K, Diagne M, Alene A and Mausch K. (2021). The Future of Food Security, Nutrition and Health for Agri-  
Chan CY, Tran N, Cheong KC, Sulser TB, Cohen PJ, Wiebe K and Nasr-Allah AM. (2021). The Future of Fish in Africa: Employment and Investment Opportunities. *PLoS ONE* 16(12):e021615. doi: 10.1371/journal.pone.0261615.

Devi, P. A., Padmavathy, P., Aanand, S., & Aruljothi, K. (2017). Review on water quality parameters in freshwater cage fish culture. *International Journal of Applied Research*, 3(5), 114-120.

Egessa, R., Pabire, G. W., & Ocaya, H. (2018). Benthic Macroinvertebrate Community Structure in Napoleon Gulf, Lake Victoria: Effects of Cage Aquaculture in Eutrophic Lake. *Environmental Monitoring and Assessment*, 190(3), 1-10.

Food Systems Transformation. CGIAR Foresight Working Paper. SocArXiv. doi: 10.31235/osf.io/qgn9u

Food and Agriculture Organization of the United Nations (FAO) (2012). United Republic of Tanzania - National Aquaculture Sector Overview.

Food and Agriculture Organization of the United Nations (FAO) (2020). The State of World Fisheries and Aquaculture.

[FAO] Food and Agriculture Organization. (2020a). Fishery and Aquaculture Statistics. Food Balance Sheets of Fish and Fishery Products 1961–2017 (Fishstat). FAO Fisheries Division. Rome: FAO.

[FAO] Food and Agriculture Organization. (2020b). The State of World Fisheries and Aquaculture 2020. Sustainability in Action. Rome: FAO. doi: 10.4060/ca9229en

[FAO] Food and Agriculture Organization. (2021a). Fishery and Aquaculture Statistics. Global aquaculture production 1950-2015 (Fishstat). FAO Fisheries and Aquaculture Division. Rome: FAO

[FAO] Food and Agriculture Organization. (2021a). Fishery and Aquaculture Statistics. Global Fish Trade. All partners Aggregated 1976-2019 (Fishstat). FAO Fisheries and Aquaculture Division. Rome: FAO

Garlock, T., Asche, F., Anderson, J., Bjørndal, T., Kumar, G., Lorenzen, K., Ropicki, A., Smith, M. D., & Tveterås, R. (2020). A global Blue Revolution: Aquaculture Growth Across Regions, Species, and Countries. *Reviews in Fisheries Science & Aquaculture*, 28(1), 107-116.

Global Tilapia market

<https://www.zionmarketresearch.com/report/tilapia-market> accessed on 07.02.2024.

Gephart, J. A., Deutsch, L., Pace, M. L., Troell, M., & Seekell, D. A. (2017). Shocks to Fish Production: Identification, Trends, and Consequences. *Global Environmental Change*, 42, 24-32.

Gephart, J. A., Golden, C. D., Asche, F., Belton, B., Brugere, C., Froehlich, H. E., Fry, J. P., Halpern, B. S., Hicks, C. C., & Jones, R. C. (2020). Scenarios for Global Aquaculture and its Role in Human Nutrition. *Reviews in Fisheries Science & Aquaculture*, 1-17.

Ghana, C., & Brummett, R. (2010). Social and Economic Benefits of Commercial Aquaculture in Rural Communities: A case Study of Two Commercial Cage Culture Farms in Ghana.

Gondwe, Mangaliso John Gibson Symon. (2009). Environmental Impacts of Cage Aquaculture in the Southeast Arm of Lake Malawi: Water and Sediment Quality and Food Web Changes.

Halwart, M., & Moehl, J. F. (2006). FAO Regional Technical Expert Workshop on Cage Culture in Africa, 20-23 October 2004, Entebbe, Uganda. Food & Agriculture Org.

Jacquet J, Fox H, Motta H, Ngusaru A and Zeller D. (2010). Few data but many fish: Marine small-scale fisheries catches for Mozambique and Tanzania. *African Journal of Marine Science* 32(2) 197–206. doi: 10.2989/1814232X.2010.501559

Jiddawi, Narriman S and Marcus C Öhman. (2002). Marine fisheries in Tanzania. *Ambio* 31 (7–8):518–27. doi: 10.1579/0044-7447-31.7.518

Katunzi, E. F. B., Onyango, P. O., Mahongo, S. B., Kische-Machumu, M. A., van Rijssel, J. C., Kayanda, R. J., & Mgaya, Y. D. (2017). Historical Perspectives and Trends in Fisheries Research in Tanzania. *Lake Victoria Fisheries Resources: Research and Management in Tanzania*, 11-35.

Kajungiro, R., Mapenzi, L., Nyinondi, C., Haldén, A. N., Mmochi, A., Chacha, M., & de Koning, D. J. (2019). The Need of a Structured Tilapia Breeding Program in Tanzania to Enhance Aquaculture Production: A review. *Tanzania Journal of Science*, 45(3), 355-371.

Kansiime, F., Saunders, M. J., & Loiselle, S. A. (2007). Functioning and dynamics of wetland Vegetation of Lake Victoria: An Overview. *Wetlands Ecology and Management*, 15, 443-451.  
Kayombo, S., & Jorgensen, S. E. (2006). Lake Victoria. *Experience and Lessons Learned Brief*, 431-446.

Kashindye, B. B., Nsinda, P., Kayanda, R., Ngupula, G. W., Mashafi, C. A., & Ezekiel, C. N. (2015). Environmental Impacts of Cage Culture in Lake Victoria: The case of Shirati Bay-Sota, Tanzania. *SpringerPlus*, 4(1), 475.

Feasibility Study on Establishing an Aquaculture Investment in Mwanza, Tanzania  
**Report Prepared by: AMMK Agribusiness Limited.**

Kolding, J., Bené, C., & Bavinck, M. (2014). Small-Scale Fisheries: Importance, Vulnerability and Deficient Knowledge. *Governance of Marine Fisheries and Biodiversity Conservation: Interaction and Coevolution*, 317-331.

[LVFO] Lake Victoria Fisheries Organization. (2016). Lake Victoria Fisheries Management Plan III. Tanzania: LVFO

Luomba, J., Chuenpagdee, R., & Song, A. M. (2016). A Bottom-up Understanding of Illegal, Unreported, and Unregulated Fishing in Lake Victoria. *Sustainability*, 8(10), 1062.

Martinez-Porchas, M., & Martinez-Cordova, L. R. (2012). World Aquaculture: Environmental Impacts and Troubleshooting Alternatives. *The Scientific World Journal*.

MENSAH, V. F., ANNANG, T. Y., & OFORI, B. D. (2018). Environmental and Socio-Economic Impact of Cage Aquaculture at Kpeve Tornu Section of the Volta Lake, Ghana. *International Journal of Bonorowo Wetlands*, 8(2), 84-95.

Mmanda, F. P., Mulokozi, D. P., Lindberg, J. E., Norman Haldén, A., Mtolera, M., Kitula, R., & Lundh, T. (2020). Fish farming in Tanzania: The Availability and Nutritive Value of Local Feed Ingredients. *Journal of Applied Aquaculture*, 1-20.

Mmochi, A. J. (2011). Overview of Aquaculture Activities in Tanzania. *Mariculture in the WIO Region Challenges and Prospects*, (11), 9.

Maskaeva A, Msafiri M, Mmasa J, Mapenzi L, Mtika P and Hepelwa A. (2021). Economic Modelling with Biological Extension of Sustainable Tuna Fishery Policy for Tanzania (Final Report). Deep Sea Fishing Authority of Tanzania and South West Indian Ocean Fisheries Governance and Shared Growth. Tanzania.

Mwainge, V. M., Ogwai, C., Aura, C. M., Mutie, A., Ombwa, V., Nyaboke, H., Oyier, K. N., & Nyaundi, J. (2021). An Overview of Fish Disease and Parasite Occurrence in the Cage Culture of *Oreochromis Niloticus*: A Case Study in Lake Victoria, Kenya. *Aquatic Ecosystem Health & Management*, 24(1), 43-55.

[MLF] Ministry of Livestock and Fisheries. (2020a). Livestock and fisheries commodity value chain briefs: Aquaculture. Dodoma, Tanzania:

MLF. [MLF] Ministry of Livestock and Fisheries. (2020b). Livestock and fisheries commodity value chain briefs: Capture fisheries. Dodoma, Tanzania:

MLF. [MLF] Ministry of Livestock and Fisheries. (2021). The annual fisheries statistics report (January–December). Dodoma, Tanzania: MLF

Mwebaza-Ndawula, L., Kiggundu, V., Magezi, G., Naluwayiro, J., Gandhi-Pabire, W., & Ocaya, H. (2013). Effects of cage fish Culture on Water Quality and Selected Biological Communities in Northern Lake Victoria, Uganda. *Uganda Journal of Agricultural Sciences*, 14(2), 61-75.

Mbowa, S., Odokonyero, T., & Munyaho, A. (2017). *Harnessing Floating Cage Technology to Increase Fish Production in Uganda* (No. 677-2017-4156).

Nyamweya, C. S., Natugonza, V., Kashindye, B. B., Mangeni-Sande, R., Kagoya, E., Mpomwenda, V., & Brierley, A. S. (2023). Response of Fish Stocks in Lake Victoria to Enforcement of the ban on Illegal fishing: Are there Lessons for Management? *Journal of Great Lakes Research*, 49(2), 531-544.

Nyamweya, C. S., Natugonza, V., Taabu-Munyaho, A., Aura, C. M., Njiru, J. M., Ongore, C., & Kayanda, R. (2020). A Century of Drastic Change: Human-Induced Changes of Lake Victoria Fisheries and Ecology. *Fisheries Research*, 230, 105564.

Njiru, J. M., Aura, C. M., & Okechi, J. K. (2019). Cage Fish Culture in Lake Victoria: A Boon or a Disaster Waiting? *Fisheries Management and Ecology*, 26(5), 426-434. <https://doi.org/10.1111/fme.12283>

Njiru, J., van der Knaap, M., Kundu, R., & Nyamweya, C. (2018). Lake Victoria Fisheries: Outlook and Lakes 23(2).

Njiru, M., Kazungu, J., Ngugi, C. C., Gichuki, J., & Muhoozi, L. (2008). An Overview of the current status of Lake Victoria fishery: Opportunities, Challenges and Management Strategies. *Lakes & Reservoirs: Research & Management*, 13(1), 1-12

Naylor RL, Kishore A, Sumaila UR, Issifu I, Hunter BP, Belton B, Bush SR, Cao L, Gelcich S, Gephart JA and Golden CD.(2021). Blue Demand Across Geographic and Temporal Scales. *Nature Communications* 12(1):1–14. doi: 10.1038/s41467-021-25516-4

Okeyo-Owuor, J. B., Raburu, P. O., Masese, F. O., & Omari, S. N. (2012). Wetlands of Lake Victoria Basin, Kenya: Distribution, Current Status and Conservation Challenges.

Owuor, J. B., Were, K. P., & Ngodhe, S. O. (2019). Impacts of *Oreochromis niloticus* Cage Culture on Water of Winam gulf of L. Victoria, Kenya.

[PMO] Prime Minister's Office. (2020). Agriculture and Fisheries Development Programme (AFDP), no. July. Dodoma, Tanzania: PMO

Rohrlack, T. (2020). Hypolimnetic Assimilation of Ammonium by the Nuisance Alga *gonyostomum Semen*. *AIMS Microbiology*, 6(2), 92.

Rukanda, J. J., & Sigurgeirsson, O. (2018). Evaluation of Aquaculture Development in Tanzania.

Sayer, C. A., Máiz-Tomé, L., Akwany, L. O., Kische-Machumu, M. A., Natugonza, V., Whitney, C. W., Omondi, R., Nshutiyayesu, S., & Kabuye, C. S. (2018). The importance of Freshwater Species to Livelihoods in the Lake Victoria Basin. *Freshwater Biodiversity in the Lake Victoria Basin*. IUCN Global Species Programme.

Shoko, A. P., Msuya, F. E., Mmochi, A. J., Wetengere, K., Lamtane, H. A., Kajitanus, O. O., & Mgaya, Y. D. (2011). The Status and Development of Aquaculture in Tanzania, East Africa. Sekadende B, Scott L, Anderson J, Aswani S, Francis J, Jacobs Z, Jebri F, Jiddawi N, Kamukuru AT, Kelly S and Kizenga H. (2020). The Small Pelagic Fishery of the Pemba Channel, Tanzania: What we Know and what we Need to Know for Management under Climate Change. *Ocean & Coastal Management* 197:105322. doi: 10.1016/j.ocecoaman.2020.105322  
Sitoki, L., Gichuki, J., Ezekiel, C., Wanda, F., Mkumbo, O. C., & Marshall, B. E. (2010). The Environment of Lake Victoria (East Africa): Current Status and Historical Changes. *International Review of Hydrobiology*, 95(3), 209-223

Tacon, A. G. (2020). Trends in Global Aquaculture and Aquafeed Production: 2000–2017. *Reviews in Science & Technology* 39(1), 43-56. <https://doi.org/10.1080/23308249.2019.1649634>

Tacon<sup>1</sup>, A. G., Halwart, M., Tacon, A. G. J., & Halwart, M. (2007). Cage Aquaculture: A Global Overview. *Cage aquaculture: Regional Reviews and Global Overview*, 498, 3.  
Thilsted SH, Thorne-Lyman A, Webb P, Bogard JR, Subasinghe R, Phillips MJ and Allison EH. (2016). Sustaining Healthy Diets: The Role of Capture Fisheries and Aquaculture for Improving Nutrition in the post-2015 era. *Food Policy* 61:126–31. doi: 10.1016/j.foodpol.2016.02.005

The Environmental Management Act, 2004.  
[http://www.tzdpg.or.tz/fileadmin/migrated/content/uploads/Environmental\\_Management\\_Act\\_04.pdf](http://www.tzdpg.or.tz/fileadmin/migrated/content/uploads/Environmental_Management_Act_04.pdf)

The Fisheries Regulations, 2009  
<https://trade.tanzania.go.tz/media/The%20Fisheries%20Regulations%20,2009.pdf>

The National Fisheries Act, 2003.  
<http://repository.businessinsightz.org/handle/20.500.12018/374>

Tanzania Fisheries Research Institute Act, 2016.  
<http://www.fao.org/faolex/results/details/en/c/LEX-FAOC162775/>

Tanzania Fish Pellets Prices

<https://www.selinawamucii.com/insights/prices/tanzania/fish-pellets/> accessed on 07.02.2024.

Tran N, Maskaveva A, Msafiri M, Chan CY, Peart J, Mroso H, Shoko AP and Madalla NA. (2022). Future Fish Supply and Demand in Tanzania. Penang, Malaysia: WorldFish. Program Report: 2022-20.

Tigchelaar M, Cheung WW, Mohammed EY, Phillips MJ, Payne HJ, Selig ER, Wabnitz CC, Oyintola MA, Frölicher TL, Gephart JA and Golden CD. (2021). Compound Climate Risks Threaten Aquatic Food System Benefits. *Nature Food* 2(9): 673–82. doi: 10.1038/s43016-021-00368-9

[USAID]United States Agency for International Development.(2020). Promoting Tanzania's Environment, Conservation and Tourism (PROTECT) activity. Washington, DC: USAID.

United Republic of Tanzania (URT) (2016). The Tanzania Fisheries Sector: Challenges and Opportunities, Ministry of Agriculture, Livestock and Fisheries. Prepared with the support of the Royal Danish Embassy, Dar es Salaam, with technical assistance from MegapescaLda, Portugal, pp. 32.

United Republic of Tanzania (URT). (2017). Tanzania Ministry of Livestock and Fisheries. Annual Fisheries Statistics Report, 2017. Dodoma: Government of Tanzania.

Van der Heijden, Peter GM, Shoko, A. P., van Duijn, A. P., Rurangwa, E., & Bolman, B. (2018). No title. Review and Analysis of Small-Scale Aquaculture Production in East Africa: Part 3. Tanzania.

Vanderkelen, I., van Lipzig, N. P. M., and Thiery, W.: Modelling the Water Balance of Lake Victoria (East Africa) – Part 1: Observational Analysis, *Hydrol. Earth Syst. Sci.*, 22, 5509–5525  
Wang P, Tran N, Enahoro D, Chan CY, Shikuku KM, Rich KM, Byrd K and Thilsted SH. (2021). Spatial and Temporal Patterns of Consumption of Animal-Source Foods in Tanzania. *Agribusiness*. doi.org: 10.1002/agr.21729

Wenaty A, Mabiki F, Chove B and Mdegela R. (2018). Fish Consumers Preferences, Quantities of Fish Consumed and Factors Affecting Fish Eating habits: A case of Lake Victoria in Tanzania. *International Journal of Fisheries and Aquatic Studies* 6(6):247–52

Yogev, U., Barnes, A., Giladi, I., & Gross, A. (2020). Potential Environmental Impact Resulting from Biased Fish Sampling in Intensive Aquaculture Operations. *Science of the Total Environment*, 707, 135630

## ANNEXURES

### Annex 1: MFL Registration Certificate



TANZANIA



C.1

## Certificate of Incorporation of a Company

Section 15

**No: 163748304**

I HEREBY CERTIFY THAT

**MEMBI FISHERIES LIMITED**

is this day incorporated under the Companies Act, 2002  
and that the Company is Limited.

**GIVEN** under my hand at Dar es Salaam this **27<sup>th</sup>** day of  
**FEBRUARY TWO THOUSAND AND TWENTY THREE.**



### Annex 3: MFL Water Use Permit

Form F



**THE UNITED REPUBLIC OF TANZANIA**  
**MINISTRY OF WATER**  
**LAKE VICTORIA BASIN WATER BOARD**



**GRANT OF FINAL WATER USE PERMIT**

**The Water Resources Management Act, 2009**  
**(Section 43)**

No: **95100678**                      Basin: **Lake Victoria**                      Region: **Mwanza**

1. Name of Holder: **Membi Fisheries Limited**
2. Address: **P. O Box 546, Geita**
3. Email: **info@membifisheries.com**                      Telephone No.: **0754775566**
4. Particulars of Water Use Permit: **To use 6280m<sup>2</sup> surface area of water in Lake Victoria for the purpose of Fish Cage Farming at Kagunguli-Buzegwe Village.**
5. This Water Use Permit is: **Personal to the Grantee and may not be transferred Without the Consent of the Basin Water Director.**
6. Works: **NIL**
7. Whether grant is subject to construction of works specified in paragraph 6 and due by Which works to be completed: **NIL**.
8. This Water Use Permit is granted subject to the provisions of the Water Resources Management Act No.11 of 2009, and Terms and Conditions Specified overleaf.

Date issued: **28.07.2023**  
Expiry date: **27.07.2026**

\_\_\_\_\_

  
**Renatus J. Shihhu**  
**Basin Water Director**

\* Strike out whichever does not apply.



## Annex 4: EIA Certificate

GN. No. 349

  
THE UNITED REPUBLIC OF TANZANIA

**ENVIRONMENTAL IMPACT ASSESSMENT**  
**Certificate**

*[Section 92(1) of the Environmental Management Act NO.20 of 2004]*  
Registration No. EC/EIA/2023/5747

**This is to certify that**

M/S MEMBI FISHERIES LIMITED  
of P.O. BOX 546, GEITA

has this day been granted an Environmental Impact Assessment Certificate for the proposed project/activity titled ESTABLISHMENT OF CAGE FISH FARMING PROJECT to be implemented/carried out at BUZEGWE VILLAGE KAGUNGULI WARD, UKEREWE DISTRICT IN MWANZA REGION

*This certificate shall remain in force during the whole lifecycle of this specific project unless henceforth revoked or suspended.*

*General condition and terms attached to this certificated are set out herein behind and specific conditions are annexed.*

Dated this 20 day of OCTOBER 2023

  
**DR. SELEMANI SAIDI JAFU (MP)**  
Minister of State, Vice President's Office - Union and Environment



### **Annex 5: Interview Questions/Questionnaires for Fishermen**

1. For how long have you been involved in fishing?
2. What kind of fishing gear are you using?
3. Do you fish alone or employ others?
4. How much do you catch and earn from fishing per month?
5. What are the most important species of your fish catch in the past 10 years?
6. What do you think about aquaculture in Lake Victoria? Does it cause any problems for you, for example, restricting where you can fish?
7. Have you witnessed any change in fish catches in the past 10 years? If yes, do you think aquaculture can be the source of this change?
8. Do you ever catch the same species that they grow in the fish farms?
9. Have you noticed any species lost in recent years? If yes, list their names
10. Have you noticed any changes in the water quality of the Lake in recent years? Why do you think this has happened?
11. What do you think could be done in order to improve future fish catches from Lake Victoria?

### **Annex 6: Interview Questions/Questionnaires for Government Officials**

1. What is your role in protecting Lake Victoria?
2. Aquaculture is a growing industry in Lake Victoria; can you describe your role in regulating and supporting the aquaculture industry?
3. Do you think cage fish farming activities can have impacts on the Lake Victoria environment and ecosystem? If yes, what are those impacts?
4. Have you witnessed any change in fish from the Lake in the past 10 years? If yes, what do you think can be the source of this change
5. Have you witnessed any environmental change in the Lake in the past 10 years? If yes, what is that change? Why do you think this has happened?
6. Have you witnessed any species declined or lost in the past 10 years? If yes, list their names
7. Have you witnessed any new species of fish in recent years? If yes, list their names
8. What do you think can be done to improve aquaculture management and reduce the environmental impacts on Lake Victoria?

## **Annex 7: Interview Questions/Questionnaires for Fish Farmers**

1. How long have you been involved in cage fish farming?
2. What is the type and size (number of cages) of your fish farm? What is the fish production capacity (in kilogram) of your farm per year?
3. How many people do you employ?
4. Why did you site your fish farm in this particular location?
5. What type of fish are you growing on your farm? Why did you choose the species?
6. Where do you get the fish spawn/juveniles for your farm?
7. What type of feed are you using on your farm? Is it from local sources or from outside the country?
8. Where is the market for your fish?
9. Do you think your fish farm has an effect on the lake environment? If yes, can you describe it?
10. On your fish farm, have you encountered problems with fish health or escapes?
11. Have you seen any changes in the lake fish or water quality since you started fish farming?
12. Do you have any troubles with other lake users, for example fishers, boat users?
13. What benefits does your fish farm bring to the local community?
14. How much better off are you since you began fish farming?
15. What challenges are you facing in the development of your business?
16. What do you think can be done to improve aquaculture development in Tanzania?





MEMBI FISHERIES LIMITED,  
P.O.BOX 546,  
GEINTA TANZANIA

### **LETTER OF INTENT FOR PROJECT FUNDING IN TANZANIA.**

KEDAR GAP GROUP is pleased to announce the formal signing of a letter of intent (LOI) with Membi fisher's a Tanzania company.

We have agreed to assist in connecting with funding facilities of up to 12,000,000 USD to build and develop a fish feed manufacturing plant and fish cage farming in Lake Victoria Tanzania (aquaculture). Kedar GAP Group will be the Implementors of the project.

Fish farming will improve food security and bring about new jobs for the locals. This project will be a vital project to Membi Fisheries and the government of Tanzania.

Kedar GAP is committed to bringing in funds and expatriates against acceptable guarantees by the government of Tanzania (sovereign guaranty).

We would be most grateful to receive your favorable responses and look forward to finalizing the MOU for working together on the fishery project.

Yours sincerely,

Yariv Kedar

Md Africa

Kedar GAP GROUP

**KEDAR G.A.P LTD**  
C.N. 516068996

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 1  
Account Number : 0121174036489  
Product Name : KUA NASI AKAUUTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F



Customer ID : 641567  
Customer Name : Mr FRANK FINIHAS MACHUMU  
Customer Address : AFRICANA MBEZI BEACH  
KINONDONI  
DSM  
DAR ES SALAAM

Account Title : FRANK FINIHAS MACHUMU

All details on this statement will be deemed correct if no communication to the contrary is received by the bank within fifteen (15) days of the date of dispatch of the statement. Any communication intimating disagreement with the statement should be addressed to the Branch Manager marked confidential and copied to the Head of Audit and Investigation.  
National Bank of Commerce P.o.Box1863 Dar es salaam.\*\*\*Please be informed that NBC will review its tariffs effective 1st April 2024

| DATE       | BRANCH | DESCRIPTION                     | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR         | CR         | RUNNING BALANCE |
|------------|--------|---------------------------------|-----------------------------|--------------|-----------|------------|------------|------------|-----------------|
| 26/12/2023 | 12     | OPENING BALANCE                 |                             |              |           | 26/12/2023 | 0.00       | 951,934.94 | 951,934.94      |
| 26/12/2023 | 1      | BMB BP: VMCASHIN-3/255754775566 |                             |              |           | 26/12/2023 | 45,000.00  | 0.00       | 906,934.94      |
| 26/12/2023 | 1      | BANK TO WALLER SC               |                             |              |           | 26/12/2023 | 4,500.00   | 0.00       | 902,434.94      |
| 27/12/2023 | 1      | BMB BP: VMCASHIN-3/255754775566 |                             |              |           | 27/12/2023 | 90,000.00  | 0.00       | 812,434.94      |
| 27/12/2023 | 1      | BANK TO WALLER SC               |                             |              |           | 27/12/2023 | 7,000.00   | 0.00       | 805,434.94      |
| 27/12/2023 | 1      | BMB BP: VMCASHIN-3/255754775566 |                             |              |           | 27/12/2023 | 90,000.00  | 0.00       | 715,434.94      |
| 27/12/2023 | 1      | BANK TO WALLER SC               |                             |              |           | 27/12/2023 | 7,000.00   | 0.00       | 708,434.94      |
| 27/12/2023 | 1      | BMB BP: VMCASHIN-3/255754775566 |                             |              |           | 27/12/2023 | 190,000.00 | 0.00       | 518,434.94      |
| 27/12/2023 | 1      | BANK TO WALLER SC               |                             |              |           | 27/12/2023 | 7,000.00   | 0.00       | 511,434.94      |
| 28/12/2023 | 1      | BMB BP: VMCASHIN-3/255754775566 |                             |              |           | 28/12/2023 | 100,000.00 | 0.00       | 411,434.94      |
| 28/12/2023 | 1      | BANK TO WALLER SC               |                             |              |           | 28/12/2023 | 7,000.00   | 0.00       | 404,434.94      |

## STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 2  
Account Number : 012174036489  
Product Name : KDA NASI AKRUMTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHIMUP F

| DATE       | BRANCH | DESCRIPTION                               | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR          | CR     | RUNNING BALANCE |
|------------|--------|---|-----------------------------|--------------|--------------|------------|-------------|--------|-----------------|
| 28/12/2023 | 1      | BMB BP: VMCASHIN-3/255754775566           |                             |              |              | 28/12/2023 | 45,000.00   | 0.00   | 359,434.94      |
| 28/12/2023 | 1      | BANK TO WALLET SC                         |                             |              |              | 28/12/2023 | 4,500.00    | 0.00   | 354,934.94      |
| 28/12/2023 | 1      | BMB BP: VMCASHIN-3/255754775566           |                             |              |              | 28/12/2023 | 48,000.00   | 0.00   | 306,934.94      |
| 28/12/2023 | 1      | BANK TO WALLET SC                         |                             |              |              | 28/12/2023 | 4,500.00    | 0.00   | 302,434.94      |
| 29/12/2023 | 969    | ATM, CASH WITHDRAWAL ON US                |                             |              | 122823430314 | 29/12/2023 | 100,000.00  | 0.00   | 202,434.94      |
| 29/12/2023 | 969    | ATM CASH WITHDRAW                         |                             |              | 122823430314 | 29/12/2023 | 2,000.00    | 0.00   | 200,434.94      |
| 29/12/2023 | 969    | REVERSAL: ATM, CASH WITHDRAWAL ON US      |                             |              | 122823430314 | 29/12/2023 | -100,000.00 | 0.00   | 300,434.94      |
| 29/12/2023 | 969    | REVERSAL: ATM CASH WITHDRAW               |                             |              | 122823430314 | 29/12/2023 | -2,000.00   | 0.00   | 302,434.94      |
| 29/12/2023 | 1      | BMB BP: VMCASHIN-3/255754775566           |                             |              |              | 29/12/2023 | 90,000.00   | 0.00   | 212,434.94      |
| 29/12/2023 | 1      | BANK TO WALLET SC                         |                             |              |              | 29/12/2023 | 7,000.00    | 0.00   | 205,434.94      |
| 30/12/2023 | 969    | GOVLEFYI01217403648912812231100000.00     |                             |              |              | 30/12/2023 | 707.00      | 0.00   | 204,727.94      |
| 30/12/2023 | 1      | BMB BP: VMCASHIN-3/255754775566           |                             |              |              | 30/12/2023 | 49,000.00   | 0.00   | 155,727.94      |
| 30/12/2023 | 1      | BANK TO WALLET SC                         |                             |              |              | 30/12/2023 | 4,500.00    | 0.00   | 151,227.94      |
| 31/12/2023 | 12     | QUARTERLY DEBIT CARD FEE KUA NASI SHARUBA |                             |              |              | 31/12/2023 | 5,000.00    | 0.00   | 146,227.94      |
| 31/12/2023 | 12     | DIGITAL ACCESS FEE                        |                             |              |              | 31/12/2023 | 1,500.00    | 0.00   | 144,727.94      |
| 31/12/2023 | 12     | CREDIT INTEREST CAPITALISED               |                             |              |              | 31/12/2023 | 0.00        | 229.10 | 144,957.04      |
| 31/12/2023 | 12     | TAX DEDUCTED                              |                             |              |              | 31/12/2023 | 22.91       | 0.00   | 144,934.13      |
| 02/01/2024 | 1      | BMB BP: VMCASHIN-3/255754775566           |                             |              |              | 02/01/2024 | 138,000.00  | 0.00   | 6,934.13        |



STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From :26/12/2023  
To :26/12/2024  
Page Number :4  
Account Number :012174036489  
Product Name :KUA NASI AKAUNTI  
Currency Name :TZS  
Branch Code :12  
Branch Name :SAMORA AVENUE  
Cust Short Name :MACHUMU F

| DATE       | BRANCH | DESCRIPTION                              | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR           | CR           | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|-----------|------------|--------------|--------------|-----------------|
| 08/02/2024 | 1      | BMB BP: VMCA\$HIN-3/255754775566         |                             |              |           | 08/02/2024 | 530,000.00   | 0.00         | 13,217.73       |
| 08/02/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 08/02/2024 | 11,500.00    | 0.00         | 1,717.73        |
| 08/02/2024 | 1      | WZB DPT24020810814976 25754775566 FRANK  |                             |              |           | 08/02/2024 | 0.00         | 1,520,000.00 | 1,521,717.73    |
| 08/02/2024 | 12     | 001FTLC240390282-CHARGES                 |                             |              |           | 08/02/2024 | 2,360.00     | 0.00         | 1,519,357.73    |
| 08/02/2024 | 12     | 001FTLC240390282-EQUITY BANK TANZANIA LI |                             |              | 0         | 08/02/2024 | 1,500,000.00 | 0.00         | 19,357.73       |
| 08/02/2024 | 1      | WZB DPT24020810815844 255754775566 FRANK |                             |              |           | 08/02/2024 | 0.00         | 350,000.00   | 369,357.73      |
| 09/02/2024 | 1      | BMB BP: VMCA\$HIN-3/255754775566         |                             |              |           | 09/02/2024 | 200,000.00   | 0.00         | 169,357.73      |
| 09/02/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 09/02/2024 | 7,000.00     | 0.00         | 162,357.73      |
| 11/02/2024 | 1      | BMB BP: VMCA\$HIN-3/255754775566         |                             |              |           | 11/02/2024 | 155,000.00   | 0.00         | 7,357.73        |
| 11/02/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 11/02/2024 | 7,000.00     | 0.00         | 357.73          |
| 17/02/2024 | 1      | WZB DPT24021710900480 255754775566 FRANK |                             |              |           | 17/02/2024 | 0.00         | 3,100,000.00 | 3,100,357.73    |
| 17/02/2024 | 1      | BMB BP: VMCA\$HIN-3/255754775566         |                             |              |           | 17/02/2024 | 590,000.00   | 0.00         | 2,510,357.73    |
| 17/02/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 17/02/2024 | 11,500.00    | 0.00         | 2,498,857.73    |
| 18/02/2024 | 1      | WZB DPT24021810906253 255754775566 FRANK |                             |              |           | 18/02/2024 | 0.00         | 15,000.00    | 2,513,857.73    |
| 19/02/2024 | 12     | 001FTLC240500006-CHARGES                 |                             |              |           | 18/02/2024 | 2,360.00     | 0.00         | 2,511,497.73    |
| 19/02/2024 | 12     | 001FTLC240500006-KENYA COMMERCIAL BANK ( |                             |              | 0         | 18/02/2024 | 1,700,000.00 | 0.00         | 811,497.73      |
| 19/02/2024 | 58     | ATM. CASH WITHDRAWAL.ON US               |                             |              |           | 19/02/2024 | 100,000.00   | 0.00         | 711,497.73      |
| 19/02/2024 | 58     | ATM CASH WITHDRAW                        |                             |              |           | 19/02/2024 | 2,000.00     | 0.00         | 709,497.73      |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From :26/12/2023  
To :26/12/2024  
Page Number :5  
Account Number :012174036489  
Product Name :KUA NASI AKAUNTI  
Currency Name :TZS  
Branch Code :12  
Branch Name :SAMORA AVENUE  
Cust Short Name :MACHUMU F

| DATE       | BRANCH | DESCRIPTION                              | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR         | CR           | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|-----------|------------|------------|--------------|-----------------|
| 19/02/2024 | 1      | BMB BP: VMCASHIN-3/255754775566          |                             |              |           | 19/02/2024 | 95,000.00  | 0.00         | 614,497.73      |
| 19/02/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 19/02/2024 | 7,000.00   | 0.00         | 607,497.73      |
| 20/02/2024 | 58     | GOVEVY 012174036489 190224 100000.00     |                             |              |           | 20/02/2024 | 707.00     | 0.00         | 606,790.73      |
| 20/02/2024 | 1      | BMB BP: VMCASHIN-3/255754775566          |                             |              |           | 20/02/2024 | 90,000.00  | 0.00         | 516,790.73      |
| 20/02/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 20/02/2024 | 7,000.00   | 0.00         | 509,790.73      |
| 22/02/2024 | 1      | BMB BP: VMCASHIN-3/255754775566          |                             |              |           | 22/02/2024 | 95,000.00  | 0.00         | 414,790.73      |
| 22/02/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 22/02/2024 | 7,000.00   | 0.00         | 407,790.73      |
| 24/02/2024 | 1      | BMB BP: VMCASHIN-3/255754775566          |                             |              |           | 24/02/2024 | 150,000.00 | 0.00         | 257,790.73      |
| 24/02/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 24/02/2024 | 7,000.00   | 0.00         | 250,790.73      |
| 26/02/2024 | 1      | BMB BP: VMCASHIN-3/255754775566          |                             |              |           | 26/02/2024 | 240,000.00 | 0.00         | 10,790.73       |
| 26/02/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 26/02/2024 | 7,000.00   | 0.00         | 3,790.73        |
| 29/02/2024 | 1      | W2B 503 TB DT24022911018490 255754775366 |                             |              |           | 29/02/2024 | 0.00       | 1,000,000.00 | 1,003,790.73    |
| 29/02/2024 | 1      | BMB BP: VMCASHIN-3/255754775566          |                             |              |           | 29/02/2024 | 240,000.00 | 0.00         | 763,790.73      |
| 29/02/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 29/02/2024 | 7,000.00   | 0.00         | 756,790.73      |
| 29/02/2024 | 12     | DIGITAL ACCESS FEE                       |                             |              |           | 29/02/2024 | 1,500.00   | 0.00         | 755,290.73      |
| 29/02/2024 | 12     | CREDIT INTEREST CAPITALISED              |                             |              |           | 29/02/2024 | 0.00       | 244.10       | 755,534.83      |
| 29/02/2024 | 12     | TAX DEDUCTED                             |                             |              |           | 29/02/2024 | 24.41      | 0.00         | 755,510.42      |
| 01/03/2024 | 1      | BMB BP: VMCASHIN-3/255754775566          |                             |              |           | 01/03/2024 | 95,000.00  | 0.00         | 660,510.42      |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 6  
Account Number : 012174036489  
Product Name : KUA NASI AKAVUTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                              | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR         | CR       | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|--------------|------------|------------|----------|-----------------|
| 01/03/2024 | 1      | BANK TO WALLET SC                        |                             |              |              | 01/03/2024 | 7,000.00   | 0.00     | 653,510.42      |
| 01/03/2024 | 1      | BMB BP: VMCAASHIN-3/255754775566         |                             |              |              | 01/03/2024 | 50,000.00  | 0.00     | 603,510.42      |
| 01/03/2024 | 1      | BANK TO WALLET SC                        |                             |              |              | 01/03/2024 | 4,500.00   | 0.00     | 599,010.42      |
| 01/03/2024 | 1      | B2B15031NB DP240301110370751255754775566 |                             |              |              | 01/03/2024 | 0.00       | 2,000.00 | 601,010.42      |
| 02/03/2024 | 1      | BMB BP: VMCAASHIN-3/255754775566         |                             |              |              | 02/03/2024 | 90,000.00  | 0.00     | 511,010.42      |
| 02/03/2024 | 1      | BANK TO WALLET SC                        |                             |              |              | 02/03/2024 | 7,000.00   | 0.00     | 504,010.42      |
| 02/03/2024 | 1      | BMB BP: VMCAASHIN-3/255754775566         |                             |              |              | 02/03/2024 | 45,000.00  | 0.00     | 459,010.42      |
| 02/03/2024 | 1      | BANK TO WALLET SC                        |                             |              |              | 02/03/2024 | 4,500.00   | 0.00     | 454,510.42      |
| 04/03/2024 | 1      | BMB BP: VMCAASHIN-3/255754775566         |                             |              |              | 04/03/2024 | 49,000.00  | 0.00     | 405,510.42      |
| 04/03/2024 | 1      | BANK TO WALLET SC                        |                             |              |              | 04/03/2024 | 4,500.00   | 0.00     | 401,010.42      |
| 04/03/2024 | 74     | ATM, CASH WITHDRAWAL ON US               |                             |              | 030419060035 | 04/03/2024 | 100,000.00 | 0.00     | 301,010.42      |
| 04/03/2024 | 74     | ATM CASH WITHDRAW                        |                             |              | 030419060035 | 04/03/2024 | 2,000.00   | 0.00     | 299,010.42      |
| 05/03/2024 | 1      | B2B1504 NB DP240305110695431255693688961 |                             |              |              | 05/03/2024 | 100,000.00 | 0.00     | 199,010.42      |
| 05/03/2024 | 1      | BANK TO WALLET SC                        |                             |              |              | 05/03/2024 | 7,000.00   | 0.00     | 192,010.42      |
| 05/03/2024 | 1      | B2B1503 NB DP24030511069824107547755661F |                             |              |              | 05/03/2024 | 80,000.00  | 0.00     | 112,010.42      |
| 05/03/2024 | 1      | BANK TO WALLET SC                        |                             |              |              | 05/03/2024 | 7,000.00   | 0.00     | 105,010.42      |
| 07/03/2024 | 1      | B2B1503 NB DP24030711099089107547755661F |                             |              |              | 07/03/2024 | 90,000.00  | 0.00     | 15,010.42       |
| 07/03/2024 | 1      | BANK TO WALLET SC                        |                             |              |              | 07/03/2024 | 7,000.00   | 0.00     | 8,010.42        |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 7  
Account Number : 012174036489  
Product Name : KUA NASI AKUANZI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                   | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR         | CR           | RUNNING BALANCE |
|------------|--------|---|-----------------------------|--------------|-----------|------------|------------|--------------|-----------------|
| 15/03/2024 | 981    | 407515008803 DEPOSIT                          |                             |              |           | 15/03/2024 | 0.00       | 1,508,000.00 | 1,508,010.42    |
| 15/03/2024 | 1      | B2W 503 MB DT24031511175661 075655<br>11571H  |                             |              |           | 15/03/2024 | 250,000.00 | 0.00         | 1,258,010.42    |
| 15/03/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 15/03/2024 | 7,000.00   | 0.00         | 1,251,010.42    |
| 15/03/2024 | 12     | 001FTUC240750395-CHARGES                      |                             |              |           | 15/03/2024 | 2,360.00   | 0.00         | 1,248,650.42    |
| 15/03/2024 | 12     | 001FTUC240750395-DIAMOND TRUST<br>BANK (T)    |                             |              | 0         | 15/03/2024 | 600,000.00 | 0.00         | 648,650.42      |
| 15/03/2024 | 1      | 924075238746809 CB24031517373239              |                             |              |           | 15/03/2024 | 18,700.00  | 0.00         | 629,950.42      |
| 16/03/2024 | 1      | B2W 503 MB DT24031611180917 075477<br>55661F  |                             |              |           | 16/03/2024 | 20,000.00  | 0.00         | 609,950.42      |
| 16/03/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 16/03/2024 | 4,500.00   | 0.00         | 605,450.42      |
| 16/03/2024 | 1      | B2W 504 MB DT24031611185101 255787<br>814643  |                             |              |           | 16/03/2024 | 30,000.00  | 0.00         | 575,450.42      |
| 16/03/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 16/03/2024 | 4,500.00   | 0.00         | 570,950.42      |
| 16/03/2024 | 1      | B2W 501 MB DT24031611186304 071556<br>84501M  |                             |              |           | 16/03/2024 | 20,000.00  | 0.00         | 550,950.42      |
| 16/03/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 16/03/2024 | 4,500.00   | 0.00         | 546,450.42      |
| 17/03/2024 | 1      | B2W 504 MB DT24031711191413 255699<br>799914  |                             |              |           | 17/03/2024 | 36,000.00  | 0.00         | 510,450.42      |
| 17/03/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 17/03/2024 | 4,500.00   | 0.00         | 505,950.42      |
| 17/03/2024 | 1      | B2W 503 MB DT24031711192972 075477<br>55661F  |                             |              |           | 17/03/2024 | 45,000.00  | 0.00         | 460,950.42      |
| 17/03/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 17/03/2024 | 4,500.00   | 0.00         | 456,450.42      |
| 18/03/2024 | 1      | B2W 503 MB DT240318111981601 075477<br>55661F |                             |              |           | 18/03/2024 | 47,000.00  | 0.00         | 409,450.42      |
| 18/03/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 18/03/2024 | 4,500.00   | 0.00         | 404,950.42      |

P.O. BOX 9002  
DAR - ES-SALAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 8  
Account Number : 012174036489  
Product Name : KUA NASI AKAJUMBI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR / BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR           | CR           | RUNNING BALANCE |
|------------|--------|--|------------------------------|--------------|-----------|------------|--------------|--------------|-----------------|
| 18/03/2024 | 1      | B2W 503 MB DT240318111981691075477<br>5566 F |                              |              |           | 18/03/2024 | 45,000.00    | 0.00         | 359,950.42      |
| 18/03/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 18/03/2024 | 4,500.00     | 0.00         | 355,450.42      |
| 18/03/2024 | 1      | B2W 503 MB DT240318111992951075477<br>5566 F |                              |              |           | 18/03/2024 | 345,000.00   | 0.00         | 10,450.42       |
| 18/03/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 18/03/2024 | 11,500.00    | 0.00         | -1,049.58       |
| 18/03/2024 | 1      | B2W 503 TE DT24031811200844 255754<br>775566 |                              |              |           | 18/03/2024 | 0.00         | 300,000.00   | 298,950.42      |
| 18/03/2024 | 1      | B2W 504 MB DT24031811203597 255787<br>814643 |                              |              |           | 18/03/2024 | 100,000.00   | 0.00         | 198,950.42      |
| 18/03/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 18/03/2024 | 7,000.00     | 0.00         | 191,950.42      |
| 18/03/2024 | 1      | B2W 503 MB DT24031811203807 075477<br>5566 F |                              |              |           | 18/03/2024 | 40,000.00    | 0.00         | 151,950.42      |
| 18/03/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 18/03/2024 | 4,500.00     | 0.00         | 147,450.42      |
| 19/03/2024 | 1      | B2W 503 MB DT24031911209380 075477<br>5566 F |                              |              |           | 19/03/2024 | 140,000.00   | 0.00         | 7,450.42        |
| 19/03/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 19/03/2024 | 7,000.00     | 0.00         | 450.42          |
| 28/03/2024 | 981    | 408811008984 DEPOSIT                         |                              |              |           | 28/03/2024 | 0.00         | 3,000,000.00 | 3,000,450.42    |
| 28/03/2024 | 12     | 001FTTC240880106-CHARGES                     |                              |              |           | 28/03/2024 | 2,360.00     | 0.00         | 2,998,090.42    |
| 28/03/2024 | 12     | 001FTTC240880106-DIAMOND TRUST<br>BANK (T)   |                              |              |           | 28/03/2024 | 1,800,000.00 | 0.00         | 1,198,090.42    |
| 28/03/2024 | 1      | B2W 503 TE DT24032811311775 255754<br>775566 |                              |              |           | 28/03/2024 | 0.00         | 2,600,000.00 | 3,798,090.42    |
| 28/03/2024 | 1      | B2W 503 TE DT24032811313997 255754<br>775566 |                              |              |           | 28/03/2024 | 0.00         | 7,000.00     | 3,805,090.42    |
| 30/03/2024 | 1      | B2W 503 MB DT24032911332095 075477<br>5566 F |                              |              |           | 30/03/2024 | 45,000.00    | 0.00         | 3,760,090.42    |
| 30/03/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 30/03/2024 | 4,500.00     | 0.00         | 3,755,590.42    |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 9  
Account Number : 012174036489  
Product Name : KUA NASI AKAJUMTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID         | REFERENCE        | VALUE DATE | DR         | CR     | RUNNING BALANCE |
|------------|--------|--|-----------------------------|----------------------|------------------|------------|------------|--------|-----------------|
| 30/03/2024 | 1      | B2W 503 MB DT24033011336173 075477<br>55661F |                             |                      |                  | 30/03/2024 | 140,000.00 | 0.00   | 3,615,590.42    |
| 30/03/2024 | 1      | BANK TO WALLET SC                            |                             |                      |                  | 30/03/2024 | 7,000.00   | 0.00   | 3,608,590.42    |
| 30/03/2024 | 12     | CB24033019189540                             | SELF MF COLLECTION ACCOUNT  | CB240330191895<br>40 | 001CBPL240900003 | 30/03/2024 | 600,000.00 | 0.00   | 3,008,590.42    |
| 31/03/2024 | 1      | B2W 503 MB DT24033111349876 075477<br>55661F |                             |                      |                  | 31/03/2024 | 93,000.00  | 0.00   | 2,915,590.42    |
| 31/03/2024 | 1      | BANK TO WALLET SC                            |                             |                      |                  | 31/03/2024 | 7,000.00   | 0.00   | 2,908,590.42    |
| 31/03/2024 | 12     | DIGITAL ACCESS FEE                           |                             |                      |                  | 31/03/2024 | 1,500.00   | 0.00   | 2,907,090.42    |
| 31/03/2024 | 12     | CREDIT INTEREST CAPITALISED                  |                             |                      |                  | 31/03/2024 | 0.00       | 474.70 | 2,907,565.12    |
| 31/03/2024 | 12     | TAX DEDUCTED                                 |                             |                      |                  | 31/03/2024 | 47.47      | 0.00   | 2,907,517.65    |
| 01/04/2024 | 1      | B2W 503 MB DT24040111362606 075477<br>55661F |                             |                      |                  | 01/04/2024 | 95,000.00  | 0.00   | 2,812,517.65    |
| 01/04/2024 | 1      | BANK TO WALLET SC                            |                             |                      |                  | 01/04/2024 | 7,000.00   | 0.00   | 2,805,517.65    |
| 02/04/2024 | 1      | B2W 504 MB DT24040111366355 255682<br>043976 |                             |                      |                  | 02/04/2024 | 121,000.00 | 0.00   | 2,684,517.65    |
| 02/04/2024 | 1      | BANK TO WALLET SC                            |                             |                      |                  | 02/04/2024 | 7,000.00   | 0.00   | 2,677,517.65    |
| 02/04/2024 | 1      | B2W 503 MB DT24040211368491 074354<br>89641A |                             |                      |                  | 02/04/2024 | 150,000.00 | 0.00   | 2,527,517.65    |
| 02/04/2024 | 1      | BANK TO WALLET SC                            |                             |                      |                  | 02/04/2024 | 7,000.00   | 0.00   | 2,520,517.65    |
| 02/04/2024 | 1      | B2W 503 MB DT24040211369720 075477<br>55661F |                             |                      |                  | 02/04/2024 | 300,000.00 | 0.00   | 2,220,517.65    |
| 02/04/2024 | 1      | BANK TO WALLET SC                            |                             |                      |                  | 02/04/2024 | 7,000.00   | 0.00   | 2,213,517.65    |
| 02/04/2024 | 1      | B2W 503 MB DT24040211373020 075477<br>55661F |                             |                      |                  | 02/04/2024 | 100,000.00 | 0.00   | 2,113,517.65    |
| 02/04/2024 | 1      | BANK TO WALLET SC                            |                             |                      |                  | 02/04/2024 | 7,000.00   | 0.00   | 2,106,517.65    |

## STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 10  
Account Number : 012174036489  
Product Name : KUA NASI AKKUNTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR         | CR           | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|-----------|------------|------------|--------------|-----------------|
| 02/04/2024 | 1      | B2W 503 MB DT24040211374876 075477<br>5566 F |                             |              |           | 02/04/2024 | 95,000.00  | 0.00         | 2,011,517.65    |
| 02/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 02/04/2024 | 7,000.00   | 0.00         | 2,004,517.65    |
| 03/04/2024 | 12     | QUARTERLY DEBIT CARD FEE KUA NASI<br>SHAMBA  |                             |              |           | 03/04/2024 | 5,000.00   | 0.00         | 1,999,517.65    |
| 04/04/2024 | 1      | B2W 503 MB DT24040411394251 075477<br>5566 F |                             |              |           | 04/04/2024 | 90,000.00  | 0.00         | 1,909,517.65    |
| 04/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 04/04/2024 | 7,000.00   | 0.00         | 1,902,517.65    |
| 04/04/2024 | 981    | 409517009069 DEPOSIT                         |                             |              |           | 04/04/2024 | 0.00       | 2,000,000.00 | 3,902,517.65    |
| 04/04/2024 | 1      | W2B 503 TE DT24040411397419 255754<br>775566 |                             |              |           | 04/04/2024 | 0.00       | 2,000,000.00 | 5,902,517.65    |
| 04/04/2024 | 1      | W2B 503 TE DT24040411397475 255754<br>775566 |                             |              |           | 04/04/2024 | 0.00       | 100,000.00   | 6,002,517.65    |
| 04/04/2024 | 1      | W2B 503 TE DT24040411397548 255754<br>775566 |                             |              |           | 04/04/2024 | 0.00       | 5,000.00     | 6,007,517.65    |
| 05/04/2024 | 1      | B2W 503 MB DT24040511406466 075477<br>5566 F |                             |              |           | 05/04/2024 | 90,000.00  | 0.00         | 5,917,517.65    |
| 05/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 05/04/2024 | 7,000.00   | 0.00         | 5,910,517.65    |
| 06/04/2024 | 1      | B2W 503 MB DT24040611416983 075477<br>5566 F |                             |              |           | 06/04/2024 | 45,000.00  | 0.00         | 5,865,517.65    |
| 06/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 06/04/2024 | 4,500.00   | 0.00         | 5,861,017.65    |
| 07/04/2024 | 1      | B2W 503 MB DT24040611423633 075477<br>5566 F |                             |              |           | 07/04/2024 | 140,000.00 | 0.00         | 5,721,017.65    |
| 07/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 07/04/2024 | 7,000.00   | 0.00         | 5,714,017.65    |
| 07/04/2024 | 1      | B2W 503 MB DT24040711429929 075477<br>5566 F |                             |              |           | 07/04/2024 | 190,000.00 | 0.00         | 5,524,017.65    |
| 07/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 07/04/2024 | 7,000.00   | 0.00         | 5,517,017.65    |
| 08/04/2024 | 12     | 001FTIC240990053--CHARGES                    |                             |              |           | 08/04/2024 | 2,360.00   | 0.00         | 5,514,657.65    |

View NBC Data Privacy Statement through <https://www.nbc.co.ug/en/privacy-statement/>

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAM  
TANZANIA

Period From :26/12/2023  
To :26/12/2024  
Page Number :11  
Account Number :012174036489  
Product Name :KUA NASI AKAUNTI  
Currency Name :TZS  
Branch Code :12  
Branch Name :SAMORA AVENUE  
Cust Short Name :MACHUMBE F

| DATE       | BRANCH | DESCRIPTION                              | DEPOSIT OR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR           | CR           | RUNNING BALANCE |
|------------|--------|--|------------------------------|--------------|--------------|------------|--------------|--------------|-----------------|
| 08/04/2024 | 12     | 001FTIC240990053-NATIONAL MICRO FINANCE  |                              |              | 0            | 08/04/2024 | 3,750,000.00 | 0.00         | 1,764,657.65    |
| 08/04/2024 | 12     | 001FTIC240990054-CHARGES                 |                              |              | 0            | 08/04/2024 | 2,360.00     | 0.00         | 1,762,297.65    |
| 08/04/2024 | 12     | 001FTIC240990054-CRDB BANK LTD-JORAM P M |                              |              | 0            | 08/04/2024 | 1,500,000.00 | 0.00         | 262,297.65      |
| 08/04/2024 | 969    | ATM. CASH WITHDRAWAL ON US               |                              |              | 040812580391 | 08/04/2024 | 250,000.00   | 0.00         | 12,297.65       |
| 08/04/2024 | 969    | ATM CASH WITHDRAW                        |                              |              | 040812580391 | 08/04/2024 | 2,000.00     | 0.00         | 10,297.65       |
| 08/04/2024 | 1      | B2B 503 TE DT24040811443587 25575651157  |                              |              |              | 08/04/2024 | 0.00         | 4,250,000.00 | 4,260,297.65    |
| 09/04/2024 | 1      | B2W 503 MB DT24040911445231 0754775566 F |                              |              |              | 09/04/2024 | 245,000.00   | 0.00         | 4,015,297.65    |
| 09/04/2024 | 1      | BANK TO WALLEET SC                       |                              |              |              | 09/04/2024 | 7,000.00     | 0.00         | 4,008,297.65    |
| 09/04/2024 | 1      | GOVLEVY   999860409000200030324          |                              |              |              | 09/04/2024 | 838.00       | 0.00         | 4,007,459.65    |
| 11/04/2024 | 969    | GOVLEVY  012174036489 080424 250000.00   |                              |              |              | 11/04/2024 | 982.00       | 0.00         | 4,006,477.65    |
| 11/04/2024 | 969    | GOVLEVY  012174036489 080424 250000.00   |                              |              |              | 11/04/2024 | 707.00       | 0.00         | 4,005,770.65    |
| 11/04/2024 | 969    | GOVLEVY  012174036489 080424 250000.00   |                              |              |              | 11/04/2024 | 982.00       | 0.00         | 4,004,788.65    |
| 11/04/2024 | 969    | GOVLEVY  012174036489 080424 250000.00   |                              |              |              | 11/04/2024 | 982.00       | 0.00         | 4,003,806.65    |
| 11/04/2024 | 1      | B2W 503 MB DT24041111470593 0756551157 H |                              |              |              | 11/04/2024 | 600,000.00   | 0.00         | 3,403,806.65    |
| 11/04/2024 | 1      | BANK TO WALLEET SC                       |                              |              |              | 11/04/2024 | 11,500.00    | 0.00         | 3,392,306.65    |
| 12/04/2024 | 969    | GOVLEVY  012174036489 080424 250000.00   |                              |              |              | 12/04/2024 | 838.00       | 0.00         | 3,391,468.65    |
| 12/04/2024 | 969    | GOVLEVY  012174036489 080424 250000.00   |                              |              |              | 12/04/2024 | 306.00       | 0.00         | 3,391,162.65    |
| 12/04/2024 | 969    | GOVLEVY  012174036489 080424 250000.00   |                              |              |              | 12/04/2024 | 419.00       | 0.00         | 3,390,743.65    |

View NBC Data Privacy Statement through <https://www.nbc.co.tz/en/privacy-statement/>

P.O.BOX 9002  
DAR -ES-SALAM  
TANZANIA

STATEMENT OF ACCOUNT 26/12/2023

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 12  
Account Number : 012174036489  
Product Name : KUA NASI AKUANTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR         | CR   | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|--------------|------------|------------|------|-----------------|
| 12/04/2024 | 1      | B2W 503 MB DT24041211480058 075477<br>55661F |                             |              | 041222480283 | 12/04/2024 | 140,000.00 | 0.00 | 3,250,743.65    |
| 12/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 12/04/2024 | 7,000.00   | 0.00 | 3,243,743.65    |
| 12/04/2024 | 969    | ATM- CASH WITHDRAWAL.ON US                   |                             |              | 041222480283 | 12/04/2024 | 100,000.00 | 0.00 | 3,143,743.65    |
| 12/04/2024 | 969    | ATM CASH WITHDRAW                            |                             |              | 041222480283 | 12/04/2024 | 2,000.00   | 0.00 | 3,141,743.65    |
| 12/04/2024 | 969    | ATM- CASH WITHDRAWAL.ON US                   |                             |              | 041222500284 | 12/04/2024 | 100,000.00 | 0.00 | 3,041,743.65    |
| 12/04/2024 | 969    | ATM CASH WITHDRAW                            |                             |              | 041222500284 | 12/04/2024 | 2,000.00   | 0.00 | 3,039,743.65    |
| 13/04/2024 | 1      | B2W 503 MB DT24041311487007 075477<br>55661F |                             |              |              | 13/04/2024 | 150,000.00 | 0.00 | 2,889,743.65    |
| 13/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 13/04/2024 | 7,000.00   | 0.00 | 2,882,743.65    |
| 13/04/2024 | 12     | 001FTLC241040024-CHARGES                     |                             |              |              | 13/04/2024 | 2,360.00   | 0.00 | 2,880,383.65    |
| 13/04/2024 | 12     | 001FTLC241040024-CRDB BANK LTD-<br>DENIS LOU |                             |              | 0            | 13/04/2024 | 840,000.00 | 0.00 | 2,040,383.65    |
| 13/04/2024 | 1      | B2W 503 MB DT24041311487301 075477<br>55661F |                             |              |              | 13/04/2024 | 30,000.00  | 0.00 | 2,010,383.65    |
| 13/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 13/04/2024 | 4,500.00   | 0.00 | 2,005,883.65    |
| 13/04/2024 | 1      | B2W 503 MB DT24041311490343 075477<br>55661F |                             |              |              | 13/04/2024 | 190,000.00 | 0.00 | 1,815,883.65    |
| 13/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 13/04/2024 | 7,000.00   | 0.00 | 1,808,883.65    |
| 14/04/2024 | 969    | GOVLEVY 012174036489 120424 100000<br>.00    |                             |              |              | 14/04/2024 | 707.00     | 0.00 | 1,808,176.65    |
| 14/04/2024 | 1      | B2W 503 MB DT24041411501490 075477<br>55661F |                             |              |              | 14/04/2024 | 450,000.00 | 0.00 | 1,357,176.65    |
| 14/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 14/04/2024 | 11,500.00  | 0.00 | 1,345,676.65    |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 13  
Account Number : 012174036489  
Product Name : KUA NASI AKAUNTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR           | CR           | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|--------------|------------|--------------|--------------|-----------------|
| 15/04/2024 | 1      | W2B 503 IB DT24041511507362 255754<br>775566 |                             |              |              | 15/04/2024 | 0.00         | 310,000.00   | 1,555,969.65    |
| 15/04/2024 | 1      | B2B 503 IB DT24041511510851 075477<br>55661F |                             |              |              | 15/04/2024 | 143,000.00   | 0.00         | 1,512,969.65    |
| 15/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 15/04/2024 | 7,000.00     | 0.00         | 1,505,969.65    |
| 15/04/2024 | 981    | 410618050774 KUMBEKA                         |                             |              |              | 15/04/2024 | 0.00         | 1,000,000.00 | 2,505,969.65    |
| 16/04/2024 | 1      | B2B 503 IB DT24041611516354 075477<br>55661F |                             |              |              | 16/04/2024 | 90,000.00    | 0.00         | 2,415,969.65    |
| 16/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 16/04/2024 | 7,000.00     | 0.00         | 2,408,969.65    |
| 16/04/2024 | 1      | B2B 503 IB DT24041611522350 075477<br>55661F |                             |              |              | 16/04/2024 | 90,000.00    | 0.00         | 2,318,969.65    |
| 16/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 16/04/2024 | 7,000.00     | 0.00         | 2,311,969.65    |
| 17/04/2024 | 969    | ATM, CASH WITHDRAWAL ON US                   |                             |              | 041712381165 | 17/04/2024 | 100,000.00   | 0.00         | 2,211,969.65    |
| 17/04/2024 | 969    | ATM CASH WITHDRAW                            |                             |              | 041712381165 | 17/04/2024 | 2,000.00     | 0.00         | 2,209,969.65    |
| 18/04/2024 | 1      | B2B 503 IB DT24041811536424 075477<br>55661F |                             |              |              | 18/04/2024 | 190,000.00   | 0.00         | 2,019,969.65    |
| 18/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 18/04/2024 | 7,000.00     | 0.00         | 2,012,969.65    |
| 18/04/2024 | 1      | W2B 503 TE DT24041811541613 255756<br>551157 |                             |              |              | 18/04/2024 | 0.00         | 600,000.00   | 2,612,969.65    |
| 19/04/2024 | 1      | B2B 503 IB DT24041911550092 075477<br>53661F |                             |              |              | 19/04/2024 | 240,000.00   | 0.00         | 2,372,969.65    |
| 19/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 19/04/2024 | 7,000.00     | 0.00         | 2,365,969.65    |
| 20/04/2024 | 1      | B2B 503 IB DT24042011562338 075477<br>55661F |                             |              |              | 20/04/2024 | 1,350,000.00 | 0.00         | 1,015,969.65    |
| 20/04/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 20/04/2024 | 11,500.00    | 0.00         | 1,004,469.65    |
| 20/04/2024 | 1      | W2B 503 TE DT24042011562350 255754<br>775566 |                             |              |              | 20/04/2024 | 0.00         | 2,000.00     | 1,006,469.65    |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 14  
Account Number : 012174036489  
Product Name : KUA NASI AKAUNTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                              | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR         | CR         | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|-----------|------------|------------|------------|-----------------|
| 22/04/2024 | 981    | 411316050962.IDP                         |                             |              |           | 22/04/2024 | 0.00       | 500,000.00 | 1,506,469.65    |
| 22/04/2024 | 1      | M2B 503 MB DT24042211583214 255754775566 |                             |              |           | 22/04/2024 | 0.00       | 500,000.00 | 2,006,469.65    |
| 24/04/2024 | 1      | B2M 503 MB DT24042411601982 0754775566 F |                             |              |           | 24/04/2024 | 290,000.00 | 0.00       | 1,716,469.65    |
| 24/04/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 24/04/2024 | 7,000.00   | 0.00       | 1,709,469.65    |
| 25/04/2024 | 1      | B2M 503 MB DT24042511612588 0754775566 F |                             |              |           | 25/04/2024 | 90,000.00  | 0.00       | 1,619,469.65    |
| 25/04/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 25/04/2024 | 7,000.00   | 0.00       | 1,612,469.65    |
| 27/04/2024 | 1      | B2M 503 MB DT24042711639137 0754775566 F |                             |              |           | 27/04/2024 | 90,000.00  | 0.00       | 1,522,469.65    |
| 27/04/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 27/04/2024 | 7,000.00   | 0.00       | 1,515,469.65    |
| 28/04/2024 | 1      | B2M 503 MB DT24042811651600 0754775566 F |                             |              |           | 28/04/2024 | 190,000.00 | 0.00       | 1,325,469.65    |
| 28/04/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 28/04/2024 | 7,000.00   | 0.00       | 1,318,469.65    |
| 29/04/2024 | 1      | B2M 503 MB DT24042911662800 07565511571H |                             |              |           | 29/04/2024 | 500,000.00 | 0.00       | 818,469.65      |
| 29/04/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 29/04/2024 | 11,500.00  | 0.00       | 806,969.65      |
| 30/04/2024 | 38     | UB/51714505932859/255754775566/VWCASHIN- |                             |              |           | 30/04/2024 | 190,000.00 | 0.00       | 616,969.65      |
| 30/04/2024 | 38     | BANK TO WALLET SC                        |                             |              |           | 30/04/2024 | 7,000.00   | 0.00       | 609,969.65      |
| 30/04/2024 | 12     | DIGITAL ACCESS FEE                       |                             |              |           | 30/04/2024 | 1,500.00   | 0.00       | 608,469.65      |
| 30/04/2024 | 12     | CREDIT INTEREST CAPITALISED              |                             |              |           | 30/04/2024 | 0.00       | 2,169.40   | 610,639.05      |
| 30/04/2024 | 12     | TAX DEDUCTED                             |                             |              |           | 30/04/2024 | 216.94     | 0.00       | 610,422.11      |
| 02/05/2024 | 1      | B2M 503 MB DT24050111693042 0754775566 F |                             |              |           | 02/05/2024 | 90,000.00  | 0.00       | 520,422.11      |

View NBC Data Privacy Statement through <https://www.nbc.co.ke/en/privacy-statement/>

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 15  
Account Number : 012174036489  
Product Name : KUA NASI AKAUNTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR         | CR           | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|--------------|------------|------------|--------------|-----------------|
| 02/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 02/05/2024 | 7,000.00   | 0.00         | 513,422.11      |
| 02/05/2024 | 1      | YEARLY SAVING PLAN                           |                             |              |              | 02/05/2024 | 60,000.00  | 0.00         | 453,422.11      |
| 02/05/2024 | 1      | B2W 503 MB DT24050211705421 075477<br>55661F |                             |              |              | 02/05/2024 | 40,000.00  | 0.00         | 413,422.11      |
| 02/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 02/05/2024 | 4,500.00   | 0.00         | 408,922.11      |
| 03/05/2024 | 1      | B2W 503 MB DT24050311715097 075477<br>55661F |                             |              |              | 03/05/2024 | 90,000.00  | 0.00         | 318,922.11      |
| 03/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 03/05/2024 | 7,000.00   | 0.00         | 311,922.11      |
| 04/05/2024 | 1      | B2W 503 MB DT24050411719872 075477<br>55661F |                             |              |              | 04/05/2024 | 150,000.00 | 0.00         | 161,922.11      |
| 04/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 04/05/2024 | 7,000.00   | 0.00         | 154,922.11      |
| 04/05/2024 | 1      | B2W 503 TE DT24050411729312 255756<br>51157  |                             |              |              | 04/05/2024 | 0.00       | 200,000.00   | 354,922.11      |
| 05/05/2024 | 1      | B2W 503 MB DT24050511732432 075477<br>55661F |                             |              |              | 05/05/2024 | 145,000.00 | 0.00         | 209,922.11      |
| 05/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 05/05/2024 | 7,000.00   | 0.00         | 202,922.11      |
| 05/05/2024 | 1      | B2W 503 TE DT24050511732789 255754<br>775566 |                             |              |              | 05/05/2024 | 0.00       | 5,000.00     | 207,922.11      |
| 05/05/2024 | 1      | B2W 503 MB DT24050511734485 075477<br>55661F |                             |              |              | 05/05/2024 | 200,000.00 | 0.00         | 7,922.11        |
| 05/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 05/05/2024 | 7,000.00   | 0.00         | 922.11          |
| 18/05/2024 | 1      | NANSIO<br>TZATM. CASH WITHDRAWAL, REMOTE ON  | MMANZA                      |              | 051208391373 | 18/05/2024 | 400,000.00 | 0.00         | -399,077.89     |
| 21/05/2024 | 1      | 012174036489REV18.05.2024                    |                             |              |              | 21/05/2024 | 0.00       | 400,000.00   | 922.11          |
| 24/05/2024 | 1      | B2W 503 TE DT24052411938246 255754<br>775566 |                             |              |              | 24/05/2024 | 0.00       | 3,000,000.00 | 3,000,922.11    |
| 24/05/2024 | 981    | 414513009872 DBPOSIT                         | Frank                       |              |              | 24/05/2024 | 0.00       | 2,000,000.00 | 5,000,922.11    |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR - ES-SALAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 16  
Account Number : 012174036489  
Product Name : KUA NASI AKAUUTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                              | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR           | CR           | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|-----------|------------|--------------|--------------|-----------------|
| 24/05/2024 | 12     | 001FTIS241450173-CHARGES                 |                             |              | 0         | 24/05/2024 | 1,770.00     | 0.00         | 4,999,152.11    |
| 24/05/2024 | 12     | 001FTIS241450173-CRDB BANK LTD-JORAM P M |                             |              | 0         | 24/05/2024 | 1,000,000.00 | 0.00         | 3,999,152.11    |
| 25/05/2024 | 12     | 001FTIS241460169-CHARGES                 |                             |              | 0         | 25/05/2024 | 1,770.00     | 0.00         | 3,997,382.11    |
| 25/05/2024 | 12     | 001FTIS241460169-DIAMOND TRUST BANK (T)  |                             |              | 0         | 25/05/2024 | 2,350,000.00 | 0.00         | 1,647,382.11    |
| 25/05/2024 | 12     | 001FTIS241460171-CHARGES                 |                             |              | 0         | 25/05/2024 | 1,180.00     | 0.00         | 1,646,202.11    |
| 25/05/2024 | 12     | 001FTIS241460171-CRDB BANK LTD-DENIS LOU |                             |              | 0         | 25/05/2024 | 420,000.00   | 0.00         | 1,226,202.11    |
| 25/05/2024 | 1      | B2W 503 MB DT24052511955665 07547755661F |                             |              |           | 25/05/2024 | 115,000.00   | 0.00         | 1,111,202.11    |
| 25/05/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 25/05/2024 | 7,000.00     | 0.00         | 1,104,202.11    |
| 26/05/2024 | 1      | B2W 503 MB DT24052611962417 07547755661F |                             |              |           | 26/05/2024 | 290,000.00   | 0.00         | 814,202.11      |
| 26/05/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 26/05/2024 | 7,000.00     | 0.00         | 807,202.11      |
| 26/05/2024 | 1      | B2W 503 MB DT24052611963852 07547755661F |                             |              |           | 26/05/2024 | 90,000.00    | 0.00         | 717,202.11      |
| 26/05/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 26/05/2024 | 7,000.00     | 0.00         | 710,202.11      |
| 28/05/2024 | 1      | B2W 503 MB DT24052811987340 07547755661F |                             |              |           | 28/05/2024 | 490,000.00   | 0.00         | 220,202.11      |
| 28/05/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 28/05/2024 | 11,500.00    | 0.00         | 208,702.11      |
| 28/05/2024 | 981    | 414912011528 CASH                        | 11Fan                       |              |           | 28/05/2024 | 0.00         | 4,000,000.00 | 4,208,702.11    |
| 28/05/2024 | 1      | B2W 503 MB DT24052811989508 07547755661F |                             |              |           | 28/05/2024 | 490,000.00   | 0.00         | 3,718,702.11    |
| 28/05/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 28/05/2024 | 11,500.00    | 0.00         | 3,707,202.11    |
| 28/05/2024 | 1      | B2W 503 MB DT24052811989801 07547755661F |                             |              |           | 28/05/2024 | 190,000.00   | 0.00         | 3,517,202.11    |

View NBC Data Privacy Statement through <https://www.nbc.co.ug/en/privacy-statement/>

STATEMENT OF ACCOUNT 26/12/2023

Period From : 26/12/2023

To : 26/12/2024

Page Number : 17

Account Number : 012174036489

Product Name : KUA NASI AKUNTU

Currency Name : TZS

Branch Code : 12

Branch Name : SAMORA AVENUE

Cust Short Name : MACHUMU F

P.O.BOX 9002  
DAR -ES-SALAAM  
TANZANIA

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE        | VALUE DATE | DR         | CR   | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|------------------|------------|------------|------|-----------------|
| 28/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |                  | 28/05/2024 | 7,000.00   | 0.00 | 3,313,202.11    |
| 28/05/2024 | 1      | B2M15031MB DT240528119965561075477<br>55661F |                             |              |                  | 28/05/2024 | 190,000.00 | 0.00 | 3,320,202.11    |
| 28/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |                  | 28/05/2024 | 7,000.00   | 0.00 | 3,313,202.11    |
| 29/05/2024 | 1      | B2M15031MB DT240529119985801075406<br>85631D |                             |              |                  | 29/05/2024 | 260,000.00 | 0.00 | 3,053,202.11    |
| 29/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |                  | 29/05/2024 | 7,000.00   | 0.00 | 3,046,202.11    |
| 30/05/2024 | 58     | ATM. CASH WITHDRAWAL.ON US                   |                             |              | 053015300127     | 30/05/2024 | 400,000.00 | 0.00 | 2,646,202.11    |
| 30/05/2024 | 58     | ATM. CASH WITHDRAWAL.ON US                   |                             |              | 053015300127     | 30/05/2024 | 2,500.00   | 0.00 | 2,643,702.11    |
| 30/05/2024 | 58     | ATM. CASH WITHDRAWAL.ON US                   |                             |              | 053015310128     | 30/05/2024 | 200,000.00 | 0.00 | 2,443,702.11    |
| 30/05/2024 | 58     | ATM. CASH WITHDRAWAL.ON US                   |                             |              | 053015310128     | 30/05/2024 | 2,000.00   | 0.00 | 2,441,702.11    |
| 30/05/2024 | 58     | ATM. CASH WITHDRAWAL.ON US                   |                             |              | 053015320129     | 30/05/2024 | 100,000.00 | 0.00 | 2,341,702.11    |
| 30/05/2024 | 58     | ATM CASH WITHDRAW                            |                             |              | 053015320129     | 30/05/2024 | 2,000.00   | 0.00 | 2,339,702.11    |
| 30/05/2024 | 1      | B2M15031MB DT240530120190641075477<br>55661F |                             |              |                  | 30/05/2024 | 220,000.00 | 0.00 | 2,119,702.11    |
| 30/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |                  | 30/05/2024 | 7,000.00   | 0.00 | 2,112,702.11    |
| 30/05/2024 | 1      | B2M15031MB DT240530120191141075477<br>55661F |                             |              |                  | 30/05/2024 | 30,000.00  | 0.00 | 2,082,702.11    |
| 30/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |                  | 30/05/2024 | 4,500.00   | 0.00 | 2,078,202.11    |
| 31/05/2024 | 12     | CB24053125709830                             | SELF MF COLLECTION ACCOUNT  | 998200050882 | 001CBP1241520003 | 31/05/2024 | 500,000.00 | 0.00 | 1,578,202.11    |
| 31/05/2024 | 1      | B2M15031MB DT240531120269641076722<br>01301D |                             |              |                  | 31/05/2024 | 53,000.00  | 0.00 | 1,525,202.11    |
| 31/05/2024 | 1      | BANK TO WALLET SC                            |                             |              |                  | 31/05/2024 | 7,000.00   | 0.00 | 1,518,202.11    |

P.O.BOX 9002  
DAR -ES-SALAM  
TANZANIA

STATEMENT OF ACCOUNT 26/12/2023

Period From :26/12/2023  
To :26/12/2024  
Page Number :18  
Account Number :012174036489  
Product Name :KUA NASI AKAUNTI  
Currency Name :TZS  
Branch Code :12  
Branch Name :SAMORA AVENUE  
Cust Short Name :MACHUMUF F

| DATE       | BRANCH | DESCRIPTION  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR           | CR           | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|--------------|------------|--------------|--------------|-----------------|
| 31/05/2024 | 1      | B2M15031MB DT24053112021249 071629<br>93991H         |                             |              |              | 31/05/2024 | 65,000.00    | 0.00         | 1,453,202.11    |
| 31/05/2024 | 1      | BANK TO WALLET SC                                    |                             |              |              | 31/05/2024 | 7,000.00     | 0.00         | 1,446,202.11    |
| 31/05/2024 | 12     | 001TIS241520414-ALI MOHAMED<br>AMIRALI P O           |                             |              | 0            | 31/05/2024 | 0.00         | 5,000,000.00 | 6,446,202.11    |
| 31/05/2024 | 1      | B2M15031MB DT24053112029202 075477<br>55661F         |                             |              |              | 31/05/2024 | 120,000.00   | 0.00         | 6,326,202.11    |
| 31/05/2024 | 1      | BANK TO WALLET SC                                    |                             |              |              | 31/05/2024 | 7,000.00     | 0.00         | 6,319,202.11    |
| 31/05/2024 | 1      | B2M15031MB DT24053112034196 075477<br>55661F         |                             |              |              | 31/05/2024 | 90,000.00    | 0.00         | 6,229,202.11    |
| 31/05/2024 | 1      | BANK TO WALLET SC                                    |                             |              |              | 31/05/2024 | 7,000.00     | 0.00         | 6,222,202.11    |
| 31/05/2024 | 12     | DIGITAL ACCESS FEE                                   |                             |              |              | 31/05/2024 | 1,500.00     | 0.00         | 6,220,702.11    |
| 31/05/2024 | 12     | CREDIT INTEREST CAPITALISED                          |                             |              |              | 31/05/2024 | 0.00         | 626.50       | 6,221,328.61    |
| 31/05/2024 | 12     | TAX DEDUCTED   |                             |              |              | 31/05/2024 | 62.65        | 0.00         | 6,221,265.96    |
| 01/06/2024 | 1      | NYASAKA ATM 0688<br>TZATM. CASH WITHDRAWAL.REMOTE ON | MWANZA                      |              | 052900170761 | 01/06/2024 | 200,000.00   | 0.00         | 6,021,265.96    |
| 01/06/2024 | 1      | ATM CASH WITHDRAWAL. NON NBC LOCAL                   |                             |              |              | 01/06/2024 | 5,000.00     | 0.00         | 6,016,265.96    |
| 01/06/2024 | 1      | B2M15031MB DT24060112043190 075960<br>15311I         |                             |              |              | 01/06/2024 | 20,000.00    | 0.00         | 5,996,265.96    |
| 01/06/2024 | 1      | BANK TO WALLET SC                                    |                             |              |              | 01/06/2024 | 4,500.00     | 0.00         | 5,991,765.96    |
| 01/06/2024 | 12     | 001E7IS24153015-CHARGES                              |                             |              | 0            | 01/06/2024 | 1,770.00     | 0.00         | 5,989,995.96    |
| 01/06/2024 | 12     | 001E7IS24153015-CRDB BANK LTD-<br>BRIX EXPE          |                             |              | 0            | 01/06/2024 | 2,450,000.00 | 0.00         | 3,539,995.96    |
| 02/06/2024 | 1      | B2M15031MB DT24060112053908 075655<br>11571H         |                             |              |              | 02/06/2024 | 15,000.00    | 0.00         | 3,524,995.96    |
| 02/06/2024 | 1      | BANK TO WALLET SC                                    |                             |              |              | 02/06/2024 | 4,500.00     | 0.00         | 3,520,495.96    |

View NBC Data Privacy Statement through <https://www.dbs.co.tz/en/privacy-statement/>

STATEMENT OF ACCOUNT 26/12/2023

P.O.BOX 9002  
DAR -ES-SALAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 19  
Account Number : 012174036489  
Product Name : KUA NASI AKAUNTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR / BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR         | CR   | RUNNING BALANCE |
|------------|--------|--|------------------------------|--------------|-----------|------------|------------|------|-----------------|
| 02/06/2024 | 1      | B2W 503 MB DT240602120541571071233<br>84851F |                              |              |           | 02/06/2024 | 40,000.00  | 0.00 | 3,480,495.96    |
| 02/06/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 02/06/2024 | 4,500.00   | 0.00 | 3,475,995.96    |
| 02/06/2024 | 1      | B2W 503 MB DT240602120542941075477<br>55661F |                              |              |           | 02/06/2024 | 120,000.00 | 0.00 | 3,355,995.96    |
| 02/06/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 02/06/2024 | 7,000.00   | 0.00 | 3,348,995.96    |
| 02/06/2024 | 1      | B2W 503 MB DT240602120565611075477<br>55661F |                              |              |           | 02/06/2024 | 35,000.00  | 0.00 | 3,313,995.96    |
| 02/06/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 02/06/2024 | 4,500.00   | 0.00 | 3,309,495.96    |
| 03/06/2024 | 12     | 001FTTS241550081-CHARGES                     |                              |              |           | 03/06/2024 | 1,180.00   | 0.00 | 3,308,315.96    |
| 03/06/2024 | 12     | 001FTTS241550081-NATIONAL MICRO<br>FINANCE   |                              |              | 0         | 03/06/2024 | 280,000.00 | 0.00 | 3,028,315.96    |
| 03/06/2024 | 1      | B2W 503 MB DT240603120725191076638<br>38111E |                              |              |           | 03/06/2024 | 100,000.00 | 0.00 | 2,928,315.96    |
| 03/06/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 03/06/2024 | 7,000.00   | 0.00 | 2,921,315.96    |
| 04/06/2024 | 1      | CB24060426189152 PERSONAL                    |                              |              |           | 04/06/2024 | 6,000.00   | 0.00 | 2,915,315.96    |
| 04/06/2024 | 1      | CB24060426287615 FAMILY                      |                              |              |           | 04/06/2024 | 5,000.00   | 0.00 | 2,910,315.96    |
| 05/06/2024 | 1      | B2W 503 MB DT240605120919821075477<br>55661F |                              |              |           | 05/06/2024 | 90,000.00  | 0.00 | 2,820,315.96    |
| 05/06/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 05/06/2024 | 7,000.00   | 0.00 | 2,813,315.96    |
| 05/06/2024 | 1      | B2W 503 MB DT240605120940321075960<br>15311I |                              |              |           | 05/06/2024 | 30,000.00  | 0.00 | 2,783,315.96    |
| 05/06/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 05/06/2024 | 4,500.00   | 0.00 | 2,778,815.96    |
| 05/06/2024 | 1      | B2W 503 MB DT240605121012681075477<br>55661F |                              |              |           | 05/06/2024 | 65,000.00  | 0.00 | 2,713,815.96    |
| 05/06/2024 | 1      | BANK TO WALLET SC                            |                              |              |           | 05/06/2024 | 7,000.00   | 0.00 | 2,706,815.96    |

View NBC Data Privacy Statement through <https://www.nbc.co.tz/en/privacy-statement/>

P.O. BOX 9002  
DAR -ES-SALAM  
TANZANIA

STATEMENT OF ACCOUNT 26/12/2023

Period From :26/12/2023  
To :26/12/2024  
Page Number :20  
Account Number :012174036489  
Product Name :KUA NASI AKAUNTI  
Currency Name :TZS  
Branch Code :12  
Branch Name :SAMORA AVENUE  
Cust Short Name :MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR           | CR   | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|-----------|------------|--------------|------|-----------------|
| 07/06/2024 | 1      | CB240607265606501 PERSONAL                   |                             |              |           | 07/06/2024 | 3,000.00     | 0.00 | 2,703,815.96    |
| 07/06/2024 | 1      | B2W15031MB DT240607121221751074858<br>62721M |                             |              |           | 07/06/2024 | 20,000.00    | 0.00 | 2,683,815.96    |
| 07/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 07/06/2024 | 4,500.00     | 0.00 | 2,679,315.96    |
| 07/06/2024 | 1      | B2W15031MB DT240607121221981075477<br>55661F |                             |              |           | 07/06/2024 | 70,000.00    | 0.00 | 2,609,315.96    |
| 07/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 07/06/2024 | 7,000.00     | 0.00 | 2,602,315.96    |
| 08/06/2024 | 1      | CB24060826649741 PERSONAL                    |                             |              |           | 08/06/2024 | 3,000.00     | 0.00 | 2,599,315.96    |
| 09/06/2024 | 1      | CB240609266563031 PERSONAL<br>COMMUNICATION  |                             |              |           | 09/06/2024 | 3,000.00     | 0.00 | 2,596,315.96    |
| 09/06/2024 | 1      | B2W15031MB DT240609121436721075477<br>55661F |                             |              |           | 09/06/2024 | 80,000.00    | 0.00 | 2,516,315.96    |
| 09/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 09/06/2024 | 7,000.00     | 0.00 | 2,509,315.96    |
| 10/06/2024 | 1      | B2W15031MB DT240610121573211075655<br>11571H |                             |              |           | 10/06/2024 | 1,130,000.00 | 0.00 | 1,379,315.96    |
| 10/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 10/06/2024 | 11,500.00    | 0.00 | 1,367,815.96    |
| 10/06/2024 | 1      | B2W15031MB DT240610121573311075477<br>55661F |                             |              |           | 10/06/2024 | 55,000.00    | 0.00 | 1,312,815.96    |
| 10/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 10/06/2024 | 7,000.00     | 0.00 | 1,305,815.96    |
| 11/06/2024 | 1      | B2W15011MB DT240611121673981071516<br>59971S |                             |              |           | 11/06/2024 | 50,000.00    | 0.00 | 1,255,815.96    |
| 11/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 11/06/2024 | 4,500.00     | 0.00 | 1,251,315.96    |
| 11/06/2024 | 1      | B2W15041MB DT240611121675601255689<br>679976 |                             |              |           | 11/06/2024 | 35,000.00    | 0.00 | 1,216,315.96    |
| 11/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 11/06/2024 | 4,500.00     | 0.00 | 1,211,815.96    |
| 13/06/2024 | 1      | B2W15031MB DT24061211853401075477<br>55661F  |                             |              |           | 13/06/2024 | 90,000.00    | 0.00 | 1,121,815.96    |

View NBC Data Privacy Statement through <https://www.nbc.co.tz/en/privacy-statement/>

STATEMENT OF ACCOUNT 26/12/2023

F.O. BOX 9002  
 DAR -ES-SALAM  
 TANZANIA

Period From :26/12/2023  
 To :26/12/2024  
 Page Number :21  
 Account Number :012174036489  
 Product Name :KUA NASI AKAUPTI  
 Currency Name :TZS  
 Branch Code :12  
 Branch Name :SAMORA AVENUE  
 Cust Short Name :MACHUMU F

| DATE       | BRANCH | DESCRIPTION                               | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR         | CR   | RUNNING BALANCE |
|------------|--------|---|-----------------------------|--------------|--------------|------------|------------|------|-----------------|
| 13/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 13/06/2024 | 7,000.00   | 0.00 | 1,114,815.96    |
| 13/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 13/06/2024 | 15,000.00  | 0.00 | 1,099,815.96    |
| 13/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 13/06/2024 | 4,500.00   | 0.00 | 1,095,315.96    |
| 13/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 13/06/2024 | 50,000.00  | 0.00 | 1,045,315.96    |
| 13/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 13/06/2024 | 4,500.00   | 0.00 | 1,040,815.96    |
| 13/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 13/06/2024 | 30,000.00  | 0.00 | 1,010,815.96    |
| 13/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 13/06/2024 | 4,500.00   | 0.00 | 1,006,315.96    |
| 14/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 14/06/2024 | 190,000.00 | 0.00 | 816,315.96      |
| 14/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 14/06/2024 | 7,000.00   | 0.00 | 809,315.96      |
| 17/06/2024 | 1      | SELCOM CASH WITHDRAWAL<br>MAXREDFER110212 |                             |              | 061712415837 | 17/06/2024 | 100,000.00 | 0.00 | 709,315.96      |
| 17/06/2024 | 1      | SELCOM WAKALA CASH WITHDRAWAL             |                             |              | 061712415837 | 17/06/2024 | 2,500.00   | 0.00 | 706,815.96      |
| 17/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 17/06/2024 | 40,000.00  | 0.00 | 666,815.96      |
| 17/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 17/06/2024 | 4,500.00   | 0.00 | 662,315.96      |
| 17/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 17/06/2024 | 50,000.00  | 0.00 | 612,315.96      |
| 17/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 17/06/2024 | 4,500.00   | 0.00 | 607,815.96      |
| 17/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 17/06/2024 | 90,000.00  | 0.00 | 517,815.96      |
| 17/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 17/06/2024 | 7,000.00   | 0.00 | 510,815.96      |
| 19/06/2024 | 1      | BANK TO WALLET SC                         |                             |              |              | 19/06/2024 | 90,000.00  | 0.00 | 420,815.96      |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
 DAR - ES-SALAM  
 TANZANIA

Period From : 26/12/2023  
 To : 26/12/2024  
 Page Number : 22  
 Account Number : 012174036489  
 Product Name : KUA NASI AKAUNTI  
 Currency Name : TZS  
 Branch Code : 12  
 Branch Name : SAMORA AVENUE  
 Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR         | CR           | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|--------------|------------|------------|--------------|-----------------|
| 19/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 19/06/2024 | 7,000.00   | 0.00         | 413,815.96      |
| 24/06/2024 | 1      | B2W 503 MB DT24062312317462 075477<br>55661F |                             |              |              | 24/06/2024 | 100,000.00 | 0.00         | 313,815.96      |
| 24/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 24/06/2024 | 7,000.00   | 0.00         | 306,815.96      |
| 24/06/2024 | 15     | ATM- CASH WITHDRAWAL ON US                   |                             |              | 062412070414 | 24/06/2024 | 100,000.00 | 0.00         | 206,815.96      |
| 24/06/2024 | 15     | ATM CASH WITHDRAW                            |                             |              |              | 24/06/2024 | 2,000.00   | 0.00         | 204,815.96      |
| 25/06/2024 | 1      | B2W 503 MB DT24062512333321 074858<br>62721M |                             |              |              | 25/06/2024 | 12,000.00  | 0.00         | 192,815.96      |
| 25/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 25/06/2024 | 4,500.00   | 0.00         | 188,315.96      |
| 25/06/2024 | 1      | B2W 503 MB DT24062512334589 074718<br>13291M |                             |              |              | 25/06/2024 | 20,000.00  | 0.00         | 168,315.96      |
| 25/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 25/06/2024 | 4,500.00   | 0.00         | 163,815.96      |
| 27/06/2024 | 1      | B2W 503 MB DT24062712364876 075477<br>55661F |                             |              |              | 27/06/2024 | 150,000.00 | 0.00         | 13,815.96       |
| 27/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 27/06/2024 | 7,000.00   | 0.00         | 6,815.96        |
| 27/06/2024 | 12     | 001FISS241790796--ALI MOHAMED<br>AMIRALI P O |                             |              | 0            | 27/06/2024 | 0.00       | 2,000,000.00 | 2,006,815.96    |
| 27/06/2024 | 1      | B2W 503 MB DT24062712371603 075477<br>55661F |                             |              |              | 27/06/2024 | 290,000.00 | 0.00         | 1,716,815.96    |
| 27/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 27/06/2024 | 7,000.00   | 0.00         | 1,709,815.96    |
| 27/06/2024 | 1      | B2W 503 MB DT24062712373490 075477<br>55661F |                             |              |              | 27/06/2024 | 90,000.00  | 0.00         | 1,619,815.96    |
| 27/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 27/06/2024 | 7,000.00   | 0.00         | 1,612,815.96    |
| 28/06/2024 | 1      | B2W 503 MB DT24062812377955 075477<br>55661F |                             |              |              | 28/06/2024 | 90,000.00  | 0.00         | 1,522,815.96    |
| 28/06/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 28/06/2024 | 7,000.00   | 0.00         | 1,515,815.96    |

STATEMENT OF ACCOUNT 26/12/2023

Period From : 26/12/2023  
 To : 26/12/2024  
 Page Number : 23  
 Account Number : 012174036489  
 Product Name : KUA NASI AKRUMTI  
 Currency Name : TZS  
 Branch Code : 12  
 Branch Name : SAMORA AVENUE  
 Cust Short Name : MACHIMUF F

P.O.BOX 9002  
 DAR -FS-SALAM  
 TANZANIA

| DATE       | BRANCH | DESCRIPTION                              | DEPOSITOR / BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR         | CR       | RUNNING BALANCE |
|------------|--------|--|------------------------------|--------------|--------------|------------|------------|----------|-----------------|
| 29/06/2024 | 1      | 012174036489LOCATMDDLEFEE18052024        |                              |              |              | 29/06/2024 | 5,000.00   | 0.00     | 1,510,815.96    |
| 30/06/2024 | 12     | 001FTTS241820047-CHARGES                 |                              |              | 0            | 30/06/2024 | 1,180.00   | 0.00     | 1,509,635.96    |
| 30/06/2024 | 12     | 001FTTS241820047-CRDB BANK LTD-DENIS LOU |                              |              | 0            | 30/06/2024 | 480,000.00 | 0.00     | 1,029,635.96    |
| 30/06/2024 | 1      | B2W 503 MB DT24063012407851 07547755661F |                              |              |              | 30/06/2024 | 20,000.00  | 0.00     | 1,009,635.96    |
| 30/06/2024 | 1      | BANK TO WALLER SC                        |                              |              |              | 30/06/2024 | 4,500.00   | 0.00     | 1,005,135.96    |
| 30/06/2024 | 12     | QUARTERLY DEBIT CARD FEE KUA NASI SHAMBA |                              |              |              | 30/06/2024 | 5,000.00   | 0.00     | 1,000,135.96    |
| 30/06/2024 | 12     | DIGITAL ACCESS FEE                       |                              |              |              | 30/06/2024 | 1,500.00   | 0.00     | 998,635.96      |
| 30/06/2024 | 12     | CREDIT INTEREST CAPITALISED              |                              |              |              | 30/06/2024 | 0.00       | 1,157.00 | 999,792.96      |
| 30/06/2024 | 12     | TAX DEDUCTED                             |                              |              |              | 30/06/2024 | 115.70     | 0.00     | 999,677.26      |
| 01/07/2024 | 1      | B2W 503 MB DT2407011242431 07547755661F  |                              |              |              | 01/07/2024 | 90,000.00  | 0.00     | 909,677.26      |
| 01/07/2024 | 1      | BANK TO WALLER SC                        |                              |              |              | 01/07/2024 | 7,000.00   | 0.00     | 902,677.26      |
| 01/07/2024 | 1      | BANK TO WALLER SC                        |                              |              |              | 01/07/2024 | 7,000.00   | 0.00     | 770,677.26      |
| 01/07/2024 | 15     | ATM, CASH WITHDRAWAL ON US               |                              |              | 070116350358 | 01/07/2024 | 200,000.00 | 0.00     | 570,677.26      |
| 01/07/2024 | 15     | ATM CASH WITHDRAW                        |                              |              | 070116350358 | 01/07/2024 | 2,000.00   | 0.00     | 568,677.26      |
| 01/07/2024 | 1      | B2W 503 MB DT24070112423685 07679999851L |                              |              |              | 01/07/2024 | 50,000.00  | 0.00     | 518,677.26      |
| 01/07/2024 | 1      | BANK TO WALLER SC                        |                              |              |              | 01/07/2024 | 4,500.00   | 0.00     | 514,177.26      |
| 03/07/2024 | 1      | B2W 503 MB DT24070312451398 07565511571H |                              |              |              | 03/07/2024 | 60,000.00  | 0.00     | 454,177.26      |

STATEMENT OF ACCOUNT 26/12/2023

P.O.BOX 9002  
DAR -ES-SALAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 24  
Account Number : 012174036489  
Product Name : KUA NASI AKKUNTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR         | CR           | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|--------------|------------|------------|--------------|-----------------|
| 03/07/2024 | 1      | BANK TO WALLET SC  |                             |              |              | 03/07/2024 | 7,000.00   | 0.00         | 447,177.26      |
| 04/07/2024 | 1      | ROCK CITY MALL, MARONGOROMWANZA TZATM. CASH WITHDRAWAL.REMOTE ON |                             |              | 070217319329 | 04/07/2024 | 200,000.00 | 0.00         | 247,177.26      |
| 04/07/2024 | 1      | ATM CASH WITHDRAWAL NON NBC LOCAL                                |                             |              | 070217319329 | 04/07/2024 | 5,000.00   | 0.00         | 242,177.26      |
| 04/07/2024 | 1      | B2W 504 MB DT24070412460052 255699799914                         |                             |              |              | 04/07/2024 | 30,000.00  | 0.00         | 212,177.26      |
| 04/07/2024 | 1      | BANK TO WALLET SC  |                             |              |              | 04/07/2024 | 4,500.00   | 0.00         | 207,677.26      |
| 04/07/2024 | 1      | B2W 503 MB DT24070412468197 07547755661E                         |                             |              |              | 04/07/2024 | 35,000.00  | 0.00         | 172,677.26      |
| 04/07/2024 | 1      | BANK TO WALLET SC  |                             |              |              | 04/07/2024 | 4,500.00   | 0.00         | 168,177.26      |
| 04/07/2024 | 1      | B2W 504 MB DT24070412468216 255699799914                         |                             |              |              | 04/07/2024 | 160,000.00 | 0.00         | 8,177.26        |
| 04/07/2024 | 1      | BANK TO WALLET SC  |                             |              |              | 04/07/2024 | 7,000.00   | 0.00         | 1,177.26        |
| 31/07/2024 | 12     | DIGITAL ACCESS FEE   |                             |              |              | 31/07/2024 | 1,177.26   | 0.00         | 0.00            |
| 31/07/2024 | 12     | CREDIT INTEREST CAPITALISED                                      |                             |              |              | 31/07/2024 | 0.00       | 40.40        | 40.40           |
| 31/07/2024 | 12     | TAX DEDUCTED   |                             |              |              | 31/07/2024 | 4.04       | 0.00         | 36.36           |
| 26/08/2024 | 12     | 001TSS242390551-ERRFN A ALADIN /OR ZAIN                          |                             |              |              | 26/08/2024 | 0.00       | 333,000.00   | 333,036.36      |
| 26/08/2024 | 1      | SAVINGS AS PER PLAN  |                             |              |              | 26/08/2024 | 325,000.00 | 0.00         | 8,036.36        |
| 26/08/2024 | 1      | CE24082635856664 VOUCHER   |                             |              |              | 26/08/2024 | 2,500.00   | 0.00         | 5,536.36        |
| 27/08/2024 | 12     | DIGITAL ACCESS FEE   |                             |              |              | 27/08/2024 | 322.74     | 0.00         | 5,213.62        |
| 31/08/2024 | 12     | DIGITAL ACCESS FEE   |                             |              |              | 31/08/2024 | 1,500.00   | 0.00         | 3,713.62        |
| 12/09/2024 | 12     | 001TSS242560586-ERRFN A ALADIN /OR ZAIN                          |                             |              |              | 12/09/2024 | 0.00       | 1,000,000.00 | 1,003,713.62    |

View NBC Data Privacy Statement through <https://www.nbc.co.tz/gen/privacy-statement/>

P.O. BOX 9002  
DAR -ES-SALAM  
TANZANIA

STATEMENT OF ACCOUNT 26/12/2023

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 25  
Account Number : 012174036489  
Product Name : KUA NASI AKAKUNTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR           | CR           | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|--------------|------------|--------------|--------------|-----------------|
| 13/09/2024 | 15     | ATM, CASH WITHDRAWAL ON US                   |                             |              | 091311050153 | 13/09/2024 | 100,000.00   | 0.00         | 903,713.62      |
| 13/09/2024 | 15     | ATM CASH WITHDRAW                            |                             |              | 091311050153 | 13/09/2024 | 2,000.00     | 0.00         | 901,713.62      |
| 13/09/2024 | 1      | B2W 501 MB DT24091313395175 071088<br>69061F |                             |              |              | 13/09/2024 | 9,000.00     | 0.00         | 892,713.62      |
| 13/09/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 13/09/2024 | 2,000.00     | 0.00         | 890,713.62      |
| 14/09/2024 | 981    | 425809032875 15151 WITHDRAWAL                |                             |              | 091409480795 | 14/09/2024 | 500,000.00   | 0.00         | 390,713.62      |
| 14/09/2024 | 981    | AGENCY BANKING WAKALA CASH<br>WITHDRAWAL     |                             |              | 091409480795 | 14/09/2024 | 10,000.00    | 0.00         | 380,713.62      |
| 14/09/2024 | 1      | B2W 503 MB DT24091413409625 075477<br>55661F |                             |              |              | 14/09/2024 | 370,000.00   | 0.00         | 10,713.62       |
| 14/09/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 14/09/2024 | 11,500.00    | 0.00         | -786.38         |
| 21/09/2024 | 12     | 001TFS1242650507-FRANK FTINHAS<br>MACHUMU A  |                             |              |              | 21/09/2024 | 0.00         | 3,500,000.00 | 3,499,213.62    |
| 21/09/2024 | 1      | B2W 503 MB DT24092113507412 075534<br>18301F |                             |              |              | 21/09/2024 | 350,000.00   | 0.00         | 3,149,213.62    |
| 21/09/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 21/09/2024 | 11,500.00    | 0.00         | 3,137,713.62    |
| 21/09/2024 | 12     | 001FITS242650272-CHARGES                     |                             |              |              | 21/09/2024 | 1,770.00     | 0.00         | 3,135,943.62    |
| 21/09/2024 | 12     | 001FITS242650272-CRDB BANK LTD-<br>JORAM P M |                             |              |              | 21/09/2024 | 1,000,000.00 | 0.00         | 2,135,943.62    |
| 21/09/2024 | 1      | CB24092139064024 PERSONAL                    |                             |              |              | 21/09/2024 | 3,600.00     | 0.00         | 2,132,343.62    |
| 23/09/2024 | 1      | B2W 503 MB DT24092213522977 075477<br>55661F |                             |              |              | 23/09/2024 | 300,000.00   | 0.00         | 1,832,343.62    |
| 23/09/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 23/09/2024 | 7,000.00     | 0.00         | 1,825,343.62    |
| 23/09/2024 | 1      | B2W 503 MB DT24092313526353 075477<br>55661F |                             |              |              | 23/09/2024 | 110,000.00   | 0.00         | 1,715,343.62    |
| 23/09/2024 | 1      | BANK TO WALLET SC                            |                             |              |              | 23/09/2024 | 7,000.00     | 0.00         | 1,708,343.62    |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 26  
Account Number : 012174036489  
Product Name : KUA NASI AKADHITI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAKORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                                   | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR         | CR   | RUNNING BALANCE |
|------------|--------|---|-----------------------------|--------------|-----------|------------|------------|------|-----------------|
| 23/09/2024 | 1      | B2W 503 MB DT240923 3532631 075477<br>55661F  |                             |              |           | 23/09/2024 | 190,000.00 | 0.00 | 1,518,343.62    |
| 23/09/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 23/09/2024 | 7,000.00   | 0.00 | 1,511,343.62    |
| 24/09/2024 | 1      | B2W 503 MB DT240924 3547007 075477<br>55661F  |                             |              |           | 24/09/2024 | 190,000.00 | 0.00 | 1,321,343.62    |
| 24/09/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 24/09/2024 | 7,000.00   | 0.00 | 1,314,343.62    |
| 24/09/2024 | 1      | B2W 503 MB DT240924 3552521 075477<br>55661F  |                             |              |           | 24/09/2024 | 90,000.00  | 0.00 | 1,224,343.62    |
| 24/09/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 24/09/2024 | 7,000.00   | 0.00 | 1,217,343.62    |
| 25/09/2024 | 1      | B2W 503 MB DT240925 3558638 075477<br>55661F  |                             |              |           | 25/09/2024 | 390,000.00 | 0.00 | 827,343.62      |
| 25/09/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 25/09/2024 | 11,500.00  | 0.00 | 815,843.62      |
| 25/09/2024 | 1      | B2W 503 MB DT240925 3562202 075477<br>55661F  |                             |              |           | 25/09/2024 | 90,000.00  | 0.00 | 628,843.62      |
| 25/09/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 25/09/2024 | 7,000.00   | 0.00 | 621,843.62      |
| 25/09/2024 | 1      | B2W 503 MB DT240925 3567355 075477<br>55661F  |                             |              |           | 25/09/2024 | 90,000.00  | 0.00 | 531,843.62      |
| 25/09/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 25/09/2024 | 7,000.00   | 0.00 | 524,843.62      |
| 27/09/2024 | 1      | B2W 503 MB DT240927 13600106 075477<br>55661F |                             |              |           | 27/09/2024 | 100,000.00 | 0.00 | 424,843.62      |
| 27/09/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 27/09/2024 | 7,000.00   | 0.00 | 417,843.62      |
| 28/09/2024 | 1      | B2W 504 MB DT240928 13613801255692<br>142522  |                             |              |           | 28/09/2024 | 70,000.00  | 0.00 | 347,843.62      |
| 28/09/2024 | 1      | BANK TO WALLET SC                             |                             |              |           | 28/09/2024 | 7,000.00   | 0.00 | 340,843.62      |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From :26/12/2023  
To :26/12/2024  
Page Number :27  
Account Number :012174036489  
Product Name :KUA NASI AKAUNTI  
Currency Name :TZS  
Branch Code :12  
Branch Name :SAMORA AVENUE  
Cust Short Name :MACHUMU F

| DATE       | BRANCH | DESCRIPTION                               | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE             | VALUE DATE | DR           | CR           | RUNNING BALANCE |
|------------|--------|---|-----------------------------|--------------|-----------------------|------------|--------------|--------------|-----------------|
| 29/09/2024 | 1      | B2W 503 MB DT24092913620129 0754775566 F  |                             |              |                       | 29/09/2024 | 160,000.00   | 0.00         | 180,843.62      |
| 29/09/2024 | 1      | BANK TO WALLET SC                         |                             |              |                       | 29/09/2024 | 7,000.00     | 0.00         | 173,843.62      |
| 30/09/2024 | 12     | QUARTERLY DEBIT CARD FEE KUA NASI SHAMBA  |                             |              |                       | 30/09/2024 | 5,000.00     | 0.00         | 168,843.62      |
| 30/09/2024 | 12     | DIGITAL ACCESS FEE                        |                             |              |                       | 30/09/2024 | 1,500.00     | 0.00         | 167,343.62      |
| 30/09/2024 | 12     | CREDIT INTEREST CAPITALISED               |                             |              |                       | 30/09/2024 | 0.00         | 302.40       | 167,646.02      |
| 30/09/2024 | 12     | TAX DEDUCTED                              |                             |              |                       | 30/09/2024 | 30.24        | 0.00         | 167,615.78      |
| 01/10/2024 | 38     | UB/51727799903857/255754775566/WNC ASHIN- |                             |              |                       | 01/10/2024 | 150,000.00   | 0.00         | 17,615.78       |
| 01/10/2024 | 38     | BANK TO WALLET SC                         |                             |              |                       | 01/10/2024 | 7,000.00     | 0.00         | 10,615.78       |
| 05/10/2024 | 1      | CB24100440823985 PERSONAL                 |                             |              |                       | 05/10/2024 | 4,000.00     | 0.00         | 6,615.78        |
| 31/10/2024 | 12     | DIGITAL ACCESS FEE                        |                             |              |                       | 31/10/2024 | 1,500.00     | 0.00         | 5,115.78        |
| 04/11/2024 | 53     | DEPOSIT BY FRANK                          | FRANK                       | 01           | 159952024110400020066 | 04/11/2024 | 0.00         | 7,920,000.00 | 7,925,115.78    |
| 04/11/2024 | 53     | ATM. CASH WITHDRAWAL ON US                |                             |              |                       | 04/11/2024 | 400,000.00   | 0.00         | 7,525,115.78    |
| 04/11/2024 | 53     | ATM CASH WITHDRAW                         |                             |              |                       | 04/11/2024 | 2,500.00     | 0.00         | 7,522,615.78    |
| 05/11/2024 | 12     | 001FTTS243100078-CHARGES                  |                             |              |                       | 05/11/2024 | 1,770.00     | 0.00         | 7,520,845.78    |
| 05/11/2024 | 12     | 001FTTS243100078-CRDB BANK LTD-JORAM P M  |                             |              |                       | 05/11/2024 | 1,800,000.00 | 0.00         | 5,720,845.78    |
| 06/11/2024 | 1      | B2W 503 MB DT24110614161044 0754775566 F  |                             |              |                       | 06/11/2024 | 700,000.00   | 0.00         | 5,020,845.78    |
| 06/11/2024 | 1      | BANK TO WALLET SC                         |                             |              |                       | 06/11/2024 | 11,500.00    | 0.00         | 5,009,345.78    |
| 07/11/2024 | 1      | B2W 503 MB DT24110714174603 0754775566 F  |                             |              |                       | 07/11/2024 | 290,000.00   | 0.00         | 4,719,345.78    |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 28  
Account Number : 012174036489  
Product Name : KUA NASI AKAUUNTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHUMUF F

| DATE       | BRANCH | DESCRIPTION                                  | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR         | CR   | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|-----------|------------|------------|------|-----------------|
| 07/11/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 07/11/2024 | 7,000.00   | 0.00 | 4,712,345.78    |
| 07/11/2024 | 1      | B2M 503 MB DT241107141790841075477<br>5566 F |                             |              |           | 07/11/2024 | 190,000.00 | 0.00 | 4,522,345.78    |
| 07/11/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 07/11/2024 | 7,000.00   | 0.00 | 4,515,345.78    |
| 08/11/2024 | 38     | UB/31731049997908/255754775566/VNO<br>P-2    |                             |              |           | 08/11/2024 | 3,600.00   | 0.00 | 4,511,745.78    |
| 08/11/2024 | 38     | UB/01731052636025/255754775566/VNC<br>ASHIN- |                             |              |           | 08/11/2024 | 490,000.00 | 0.00 | 4,021,745.78    |
| 08/11/2024 | 38     | BANK TO WALLET SC                            |                             |              |           | 08/11/2024 | 11,500.00  | 0.00 | 4,010,245.78    |
| 08/11/2024 | 1      | B2M 503 MB DT241108142017261075477<br>5566 F |                             |              |           | 08/11/2024 | 190,000.00 | 0.00 | 3,820,245.78    |
| 08/11/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 08/11/2024 | 7,000.00   | 0.00 | 3,813,245.78    |
| 10/11/2024 | 1      | B2M 503 MB DT241110142273281075477<br>5566 F |                             |              |           | 10/11/2024 | 290,000.00 | 0.00 | 3,523,245.78    |
| 10/11/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 10/11/2024 | 7,000.00   | 0.00 | 3,516,245.78    |
| 11/11/2024 | 1      | B2M 503 MB DT24111142323041075477<br>5566 F  |                             |              |           | 11/11/2024 | 690,000.00 | 0.00 | 2,826,245.78    |
| 11/11/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 11/11/2024 | 11,500.00  | 0.00 | 2,814,745.78    |
| 11/11/2024 | 1      | B2M 503 MB DT24111142360961075477<br>5566 F  |                             |              |           | 11/11/2024 | 140,000.00 | 0.00 | 2,674,745.78    |
| 11/11/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 11/11/2024 | 7,000.00   | 0.00 | 2,667,745.78    |
| 13/11/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 13/11/2024 | 7,000.00   | 0.00 | 2,545,745.78    |
| 13/11/2024 | 1      | B2M 504 MB DT24111314263204 255692<br>571082 |                             |              |           | 13/11/2024 | 115,000.00 | 0.00 | 2,522,745.78    |
| 13/11/2024 | 1      | BANK TO WALLET SC                            |                             |              |           | 13/11/2024 | 7,000.00   | 0.00 | 2,445,745.78    |
| 13/11/2024 | 15     | ATM. CASH WITHDRAWAL ON US                   |                             |              |           | 13/11/2024 | 100,000.00 | 0.00 | 2,443,745.78    |
| 13/11/2024 | 15     | ATM CASH WITHDRAW                            |                             |              |           | 13/11/2024 | 2,000.00   | 0.00 | 2,443,745.78    |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR - ES-SALAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 29  
Account Number : 0121174036489  
Product Name : KUA NASI AKUNTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAKORA AVENUE  
Cust Short Name : MACHUMU F

| DATE       | BRANCH | DESCRIPTION                              | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE | VALUE DATE | DR         | CR   | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|-----------|------------|------------|------|-----------------|
| 13/11/2024 | 1      | B2W 504 MB DT24111314268854 255692571082 |                             |              |           | 13/11/2024 | 95,000.00  | 0.00 | 2,348,745.78    |
| 13/11/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 13/11/2024 | 7,000.00   | 0.00 | 2,341,745.78    |
| 13/11/2024 | 1      | CB24111345133983 PERSONAL                |                             |              |           | 13/11/2024 | 3,600.00   | 0.00 | 2,338,145.78    |
| 13/11/2024 | 1      | CB24111345142087 PERSONAL                |                             |              |           | 13/11/2024 | 2,500.00   | 0.00 | 2,335,645.78    |
| 13/11/2024 | 1      | CB24111345143628 PERSONAL                |                             |              |           | 13/11/2024 | 1,200.00   | 0.00 | 2,334,445.78    |
| 14/11/2024 | 1      | B2W 503 MB DT24111414276553 0748586272 W |                             |              |           | 14/11/2024 | 90,000.00  | 0.00 | 2,244,445.78    |
| 14/11/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 14/11/2024 | 7,000.00   | 0.00 | 2,237,445.78    |
| 14/11/2024 | 1      | B2W 504 MB DT24111414287225 255683944232 |                             |              |           | 14/11/2024 | 110,000.00 | 0.00 | 2,127,445.78    |
| 14/11/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 14/11/2024 | 7,000.00   | 0.00 | 2,120,445.78    |
| 14/11/2024 | 1      | CB24111445239206 PERSONAL                |                             |              |           | 14/11/2024 | 5,000.00   | 0.00 | 2,115,445.78    |
| 15/11/2024 | 1      | B2W 503 MB DT24111514290327 0754775566 F |                             |              |           | 15/11/2024 | 250,000.00 | 0.00 | 1,865,445.78    |
| 15/11/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 15/11/2024 | 7,000.00   | 0.00 | 1,858,445.78    |
| 16/11/2024 | 1      | B2W 503 MB DT24111614305506 0747608821 G |                             |              |           | 16/11/2024 | 45,000.00  | 0.00 | 1,813,445.78    |
| 16/11/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 16/11/2024 | 4,500.00   | 0.00 | 1,808,945.78    |
| 16/11/2024 | 1      | B2W 503 MB DT24111614306869 0762700555 M |                             |              |           | 16/11/2024 | 36,000.00  | 0.00 | 1,772,945.78    |
| 16/11/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 16/11/2024 | 4,500.00   | 0.00 | 1,768,445.78    |
| 16/11/2024 | 1      | B2W 503 MB DT24111614307221 0756551157 H |                             |              |           | 16/11/2024 | 110,000.00 | 0.00 | 1,658,445.78    |
| 16/11/2024 | 1      | BANK TO WALLET SC                        |                             |              |           | 16/11/2024 | 7,000.00   | 0.00 | 1,651,445.78    |

STATEMENT OF ACCOUNT 26/12/2023

P.O. BOX 9002  
DAR -ES-SALAAM  
TANZANIA

Period From : 26/12/2023  
To : 26/12/2024  
Page Number : 30  
Account Number : 012174036489  
Product Name : KUA NASI AKAUNTI  
Currency Name : TZS  
Branch Code : 12  
Branch Name : SAMORA AVENUE  
Cust Short Name : MACHIMUF F

| DATE       | BRANCH | DESCRIPTION                              | DEPOSITOR/ BENEFICIARY NAME | DEPOSITOR ID | REFERENCE    | VALUE DATE | DR         | CR   | RUNNING BALANCE |
|------------|--------|--|-----------------------------|--------------|--------------|------------|------------|------|-----------------|
| 16/11/2024 | 15     | ATM. CASH WITHDRAWAL ON US               |                             |              | 111613590123 | 16/11/2024 | 100,000.00 | 0.00 | 1,551,445.78    |
| 16/11/2024 | 15     | ATM CASH WITHDRAW                        |                             |              | 111613590123 | 16/11/2024 | 2,000.00   | 0.00 | 1,549,445.78    |
| 16/11/2024 | 1      | B2W 503 MB DT2411161431323 07455285871F  |                             |              |              | 16/11/2024 | 10,000.00  | 0.00 | 1,539,445.78    |
| 16/11/2024 | 1      | BANK TO WALLIEF SC                       |                             |              |              | 16/11/2024 | 2,000.00   | 0.00 | 1,537,445.78    |
| 17/11/2024 | 1      | 37135955328 CB24111645366495             |                             |              |              | 17/11/2024 | 5,000.00   | 0.00 | 1,532,445.78    |
| 17/11/2024 | 38     | UB/61731811466491/255754775566/WVO P-2   |                             |              |              | 17/11/2024 | 3,600.00   | 0.00 | 1,528,845.78    |
| 17/11/2024 | 1      | B2W 503 MB DT24111714320326 07547755661F |                             |              |              | 17/11/2024 | 100,000.00 | 0.00 | 1,428,845.78    |
| 17/11/2024 | 1      | BANK TO WALLIEF SC                       |                             |              |              | 17/11/2024 | 7,000.00   | 0.00 | 1,421,845.78    |
| 17/11/2024 | 1      | CB24111745413044 PERSONAL                |                             |              |              | 17/11/2024 | 3,600.00   | 0.00 | 1,418,245.78    |
| 17/11/2024 | 1      | B2W 503 MB DT24111714324495 07547755661F |                             |              |              | 17/11/2024 | 900,000.00 | 0.00 | 518,245.78      |
| 17/11/2024 | 1      | BANK TO WALLIEF SC                       |                             |              |              | 17/11/2024 | 11,500.00  | 0.00 | 506,745.78      |
| 18/11/2024 | 1      | B2W 503 MB DT2411181434683 07547755661F  |                             |              |              | 18/11/2024 | 90,000.00  | 0.00 | 416,745.78      |
| 18/11/2024 | 1      | BANK TO WALLIEF SC                       |                             |              |              | 18/11/2024 | 7,000.00   | 0.00 | 409,745.78      |
| 20/11/2024 | 1      | B2W 503 MB DT24112014363975 07627003531M |                             |              |              | 20/11/2024 | 13,000.00  | 0.00 | 396,745.78      |
| 20/11/2024 | 1      | BANK TO WALLIEF SC                       |                             |              |              | 20/11/2024 | 4,500.00   | 0.00 | 392,245.78      |
| 21/11/2024 | 1      | B2W 503 MB DT2411211437540 07547755661F  |                             |              |              | 21/11/2024 | 80,000.00  | 0.00 | 312,245.78      |
| 21/11/2024 | 1      | BANK TO WALLIEF SC                       |                             |              |              | 21/11/2024 | 7,000.00   | 0.00 | 305,245.78      |
| 22/11/2024 | 1      | B2W 503 MB DT24112214393897 07471813291M |                             |              |              | 22/11/2024 | 15,000.00  | 0.00 | 290,245.78      |



