

WATER SUPPLY SYSTEMS FOR BUHONGWA, BUSWELU, KISESA AND USAGARA IN MWANZA CITY AND NEIGHBOURING AREAS

ESIA Report for Simplified Sewer System
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Project	Water Supply Systems for Buhongwa, Buswelu, Kisesa and Usagara In Mwanza City and Neighbouring Areas
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ACRONYMS

AFD	Agence Française de Développement
DED	Detailed Engineering Design
DoE	Department of Environment
DP	Domestic Point
EA	Environmental Assessment
EIA	Environmental Impact Assessment
EIB	European Investment Bank
EIS	Environmental Impact Statement
EMP	Environmental Management Plan
E&S	Environment and Social
ESA	Environmental and Social Assessment
ESIA	Environmental and Social Impact Assessment
ESMF	Environmental and Social Management Framework
ESMP	Environmental and Social Management/Monitoring Plan
ESS	Environmental and Social Safeguard Standards
EU	European Union
EUR	Euro
GBV	Gender Based Violence
GRC	Grievance Redress committee
GRM	Grievance Redress Mechanism
GoT	Government of Tanzania
HIV/AIDS	Human Immunodeficiency Virus / Acquired Immune Deficiency Syndrome
IIP	Immediate Investment Plan (for LVWATSAN)

LVWATSAN	Lake Victoria Water and Sanitation (Project)
MCC	Mwanza City Council
MEO	Mtaa Executive Officer
MSF	Multi-Stakeholder Forum
MWAUWASA	Mwanza Urban Water Supply and Sanitation Authority
NEMC	National Environment Management Council
NGO	Non-governmental Organization
PAP	Project Affected Person
PFR	Project Formulation Report (for LVWATSAN)
PMC	Project Management Consultant (for LVWATSAN)
PMU	Project Management Unit (for LVWATSAN)
PPE	Personal Protective Equipment
RAP	Resettlement Action Plan
RPF	Resettlement Policy/Planning Framework (for LVWATSAN)
SEA	Sexual Exploitation and Abuse
SH	Sexual harassment
SEP	Stakeholder Engagement Plan (for LVWATSAN)
SER	Supplementary Engineering Report (for LVWATSAN)
STP	Sexually Transmitted Diseases
STIP	Short-term Investment Plan (for LVWATSAN)
TANROADS	Tanzania National Roads Agency
TBS	Tanzania Bureau of Standards
USD	United States Dollar
VEO	Village Executive Officer
WHO	World Health Organization
WEO	Village Executive Officer
WSDP	Water Sector Development Project

SYMBOLS



Key Point



Objective



Suggestion



Commitment



Balance



Important



CSR



Progress



Continuous
Improvement



Deliverable

EXECUTIVE SUMMARY

Brief Description of the Project

To achieve the Tanzania Vision 2025 goal of attaining good governance through the rule of law and the development of a robust economy, the Government of Tanzania, through the Ministry of Water, has invested and contracted funds for the implementation of water supply and sanitation projects in Mwanza City and satellite towns. The investment aims to provide a sound and robust water supply system for Mwanza City and the neighbouring areas. MWAUWASA (the Client) has been implementing the Lake Victoria Water Supply and Sanitation (LVWATSAN) Project covering Mwanza City, Bukoba and Musoma towns and the Satellite Towns of Misungwi, Magu and Lamadi on behalf of the Ministry of Water using EIB/AFD funds since 2013.

The Consultant has been engaged for the feasibility study, preliminary designs, tender documentation and construction supervision of Buhongwa, Buswelu, Kisesa and Usagara Water Supply Project. The funds available for the project implementation did not include for the implementation of the sanitation project, and MWAUWASA together with the MoW are considering seeking additional funding from AFD, EIB and the EU to ensure the continuation of implementation of Stage 1 works required in for water supply in southern parts of Mwanza City and Neighbouring Areas together with simplified sewer systems in ten low income areas in Nyamagana and Ilemela Municipalities of Mwanza City. Consequently, MWAUWASA requested additional services to be provided by the Consultant to carry out project feasibility study and preliminary designs together with cost estimates for a simplified sewer system in the ten selected areas.

MWAUWASA has recently implemented simplified sewer systems (SSS) in some pilot areas in Mwanza and intends to implement similar models in the selected ten (10) locations within Mwanza Municipality.

The specific objective of the assignment is to prepare a technical feasibility study and preliminary designs for Simplified Sewer Systems in 10 areas of Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo and Bugarika.

The simplified sewer systems will collect wastewater from the areas and feed into the main sewer line, which goes to the Sewer Treatment Plant in Butuja, Ilemela. The Client provided the

Consultant with previous designs of the SSS that they have implemented in order that the Consultant can use it as a model. The Client also provided the relevant drawings and information on the existing sewer network in order for the Consultant to establish which sewers to connect the SSS to in each area.

Project Location

The project area is located in Mwanza City (Nyamagana) and Ilemela Municipal areas on the southern shores of Lake Victoria in Northwest Tanzania. Mwanza City is made up of Nyamagana and Ilemela Districts. The target areas for the Simplified Sewer System are indicated in Figure 1 below.

Mwanza City Council is located on the southern shores of Lake Victoria (Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo and Bugarika) in northwest Tanzania. It is situated between the latitudes 2 015' and 2 031' South of Equator, Longitude 32 0 45' and 33 0 East. Mwanza City is characterised by an urban settlement with a commercial and industrial set up.

Ilemela Municipal Council lies on the southern shores of Lake Victoria within Mwanza Region between Latitude 2015" and 2031" South of the Equator and Longitude 320 45" and - 3302" East of Greenwich approximately 1,140 metres above sea level. The municipality is bordered by Lake Victoria on its Northern and Western parts with a distance of about 12 kilometres, whereas on its Eastern part it is bordered by Magu District and on its Southern part is bordered by Mwanza City Council. It is located 16 Kilometres West of Mwanza International Airport. This council has a total surface area of 1080.55 sq. kms out of which 828.45 sq.kms (77%) is covered by water body (Lake Victoria) and 252.10 (23%) sq. kms are land area.

The selected ten (10) project areas are located in thirteen (13) different wards of Pasiansi, Kawekamo, Ibungilo, Kitangiri, Kirumba, Nyamanoro, Nyasaka, Isamilo, Mbugani, Mabatini, Buzuruga, Igogo and Mkuyuni. All the selected areas are smaller than their respective wards, but some project areas overlap within more than one ward.

Policy, Legal and Administrative Framework

This chapter lists and discusses the national laws, rules, and regulations that are relevant to the project. The goal of this chapter is to help you understand the regulatory framework's goals with regard to the social and environmental effects of the project activities that are being suggested. Tanzania's national legal requirements as well as pertinent international standards will be followed

in the creation of this EMSP report. Tanzania's ratified conventions, conventions, and international organization directives shall also be taken into account.

Applicable National Laws and Policies

The National Environmental Policy, 1997, National Women and Gender Development Policy, 2000, Construction Industry Policy, 2003, National Transport Policy, 2003, National Policy on HIV/AIDS, 2001, Sustainable Industries Development Policy, 1996, National Human Settlements Development Policy, 2000, National Health Policy, 2003 and National Employment Policy, 1997.

National Legislation and Regulations

The Environmental Management Act (EMA) 2004, The Water Supply and Sanitation Act, 2019, The Road Act, 2007, The Solid Waste Management Act, 2009, The Employment and Labour Relations Act, 2004, The Occupational Health and Safety Act, 2003, The HIV and AIDS (Prevention and Control) Act, 2008, Workers Compensation Act, 2008, The Penal Law (The Penal Code as Amended by the Sexual Offences Special Provisions Act 1998.), The Environmental Impact Assessment and Audit Regulations, 2005 and The Environmental (Registration of Environmental Experts) Regulations, 2005.

Plans

The National Plan of Action to End Violence Against Women and Children in Tanzania 2017/18 – 2021/22, The World Bank Environmental And Social Framework (ESF), Vision for Sustainable Development and World Bank Environmental And Social Policy For Investment Project Financing.

Environmental and Social Standards

The ones observed are Environmental And Social Standard 1: Assessment and Management of Environmental and Social Risks and Impacts, Environmental and Social Standard 2: Labor and Working Conditions; Environmental and Social Standard 3: Resource Efficiency and Pollution Prevention and Management, Environmental And Social Standard 4: Community Health And Safety; Environmental And Social Standard 5: Land Acquisition, Restrictions on Land Use And Involuntary Resettlement, Environmental And Social Standard 6: Biodiversity Conservation and Sustainable Management of Living Natural Resources, Environmental and Social Standard 8: Cultural Heritage; Environmental and Social Standard 10: Stakeholder Engagement and Information Disclosure.

International obligations and treaties

- Working Environment (Air Pollution, Noise and Vibration) Convention
- The Convention on the Prevention of Marine Pollution by Dumping of Wastes and other Matter (also known as the 1972 London Convention)
- The 1991 Bamako Convention
- ILO Minimum Age Convention (C138), 1973.

Administrative framework

The legal institutions for environmental management in the country include;

- Minister responsible for Environment
- National Environmental Advisory Committee
- Department of Environment
- National Environment Management Council (NEMC)
- Sector Ministries
- Regional Secretariat
- Local Government Authorities (City, Municipal, District, Township, Ward, Village, sub-village “Kitongoji”)

Results of Public Consultations

Stakeholder consultation, or public involvement in environmental decision-making, is, at its core, an effective way for the project team to communicate with the community. The purpose of the stakeholder consultation process is to inform the locals about the development and help them understand and accept the upcoming developmental activities in the area. Open communication among the stakeholders reduces the perceived possibility of negative environmental effects. In exchange, the public's input is utilized to help improve environmental management and project design.

In order to comprehend the various facets of public and stakeholder concerns, interests, and recommendations regarding the project, the consultant team created the Consultation Plan. Focused group discussions (FGDs), one-on-one meetings, and personal interviews were all included in the consultation plan. These methods aided in identifying the participants' problems and the best ways to address them. A number of one-on-one and public meetings were held in the project area to engage with the communities and government agencies. During the stakeholder consultation with wards and communities of Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo, and Bugarika, MWAUWASA officials also collaborated with the consultant team to engage with the community.

Description of the Major Significant Impacts

The following significant impacts were assessed:

A. Impacts During Mobilization Phase

Positive impacts

- i) Employment opportunities

Negative Impacts

As the study is not involving Geotechnical Survey and Topographical Survey of the area due to meandering of pipes around the proposed site areas. No anticipated Negative Impact at this stage.

B. Impacts during Construction phase

Positive Impacts

- i. Employment opportunities
- ii. Increase in income for local people
- iii. Skills development

Negative Impacts

- i. Soil Erosion
- ii. Land degradation
- iii. Health and Safety Risks
- iv. Health and Sanitation Issues
- v. Interference on daily activities/businesses as most of the works will be carried out adjacent to the businesses/residential areas.
- vi. Waste Generation and Management
- vii. Noise pollution
- viii. Air pollution

C. Impacts during Operation Phase

Positive Impacts

- i. Reduction of the nutrient's inflow into the lake
- ii. Less pollution of the soil
- iii. Improvement of the sanitation conditions
- iv. Community Health Benefits

- v. Social and Economic Benefits
- vi. Improved Sanitation Coverage
- vii. Increase of revenue collection for MWAUWASA

Negative Impacts

- i. Maintenance Challenges
- ii. Odor and Aesthetic Concern
- iii. Potential for Groundwater Contamination
- iv. Temporal Social Disruptions

Alternatives Considered

The project alternatives considered in this project were no project alternatives, choosing UPVC pipes and steel pipes instead of the HDPE, building a solids-free sewers instead of simplified sewerage system, building conventional gravity sewers instead of simplified sewerage system and alternative design and technology. This is vital in ensuring that the proponents and decision-makers have a wider knowledge base from which they can choose the most appropriate option for the proper implementation of this project.

Recommendations and Plan for Mitigation of the Impacts

The National Environment Management Council (NEMC) places a strong emphasis on project implementation that avoids, minimizes, and plans for effect mitigation. The goal of the mitigation measures plan is to guarantee that the project's execution preserves and enhances the natural environment. Following the plan, the proponent must put the suggested mitigation measures into practice in order to stop or lessen the project's negative effects on the environment and society. Enhancement measures, however, are also offered to increase the project's beneficial effects. In order to reduce negative effects and maximize noteworthy positive effects, it is advised that the Proponent put the recommended mitigating measures into practice and carry out regular monitoring exercises.

Environmental and Social Management Plans

The approaches for managing and monitoring the environment and society include information on the effects, suggested defensive measures, accountable groups, when to act, and expected expenses. While the monitoring plan will monitor the efficacy of the mitigation measures, the impact management plan will assist in implementing enhancement and mitigation measures of the impacts identified at the proposed development. As stated in this report, the Proponent is responsible for making sure the monitoring strategy is followed.

Proposed Monitoring and Auditing

An essential part of making sure environmental and social issues are addressed, whether a project is successful or not, is the environmental and social monitoring plan. This is especially true for projects that have the potential to have an impact on the environment and social well-being of the surrounding community. In this ESIA, "monitoring" is defined as the methodical gathering of data by repeated measurements in order to give details on the features and operations of environmental and social variables pertinent to the impact and mitigation strategies implemented for the project under consideration. The monitoring plan aids in confirming that the suggested mitigation strategies successfully manage the evaluated consequences.

In cooperation with appropriate organizations, such as the Occupational Safety and Health Authority and the National Environment Management Council, among others, MWAUWASA is dedicated to making sure that monitoring and auditing of this project are in place.

Decommissioning

Since decommissioning will occur in the far future, it is often impossible to predict with certainty what the precise conditions will be for mitigation. Because of this, it is currently not possible to propose precise mitigation measures regarding the environmental effects of decommissioning works with a fair degree of assurance. The proponent shall, by a predetermined Plan and mitigating measures of project removal impacts on site, carry out all phases of decommissioning, including but not limited to engineering, environmental assessment, permitting, and mitigation activities associated with the removal of the structures.

In order to respond to specific events throughout the monitoring phase, the proponent is required to monitor the environmental impacts both during and after project removal. The proponent is responsible for removing the structures in a way that minimizes any negative effects on the environment, pays all outstanding debts to suppliers, contractors, government agencies, and labor unions, and returns the site to its pre-construction state.

Conclusion and Recommendations

In conclusion, the project will strengthen MWAUWASA's environmental planning, management, and monitoring capacities while improving the environmental and health conditions of the communities of Ilemela and Nyamaga. Ensuring optimal environmental advantages requires efficient operation and maintenance. Surface water pollution will be reduced and Lake Victoria's quality will be improved via the Simplified Sewerage System.

1. INTRODUCTION

1.1. BACKGROUND OF THE PROJECT

To achieve the Tanzania Vision 2025 goal of attaining good governance through the rule of law and the development of a robust economy, the Government of Tanzania, through the Ministry of Water, has invested and contracted funds for the implementation of water supply and sanitation projects in Mwanza City and satellite towns. The investment aims to provide a sound and robust water supply system for Mwanza City and the neighbouring areas. MWAUWASA (the Client) has been implementing the Lake Victoria Water Supply and Sanitation (LVWATSAN) Project covering Mwanza City, Bukoba and Musoma towns and the Satellite Towns of Misungwi, Magu and Lamadi on behalf of the Ministry of Water using EIB/AFD funds since 2013.

The Consultant has been engaged for the feasibility study, preliminary designs, tender documentation and construction supervision of Buhongwa, Buswelu, Kisesa and Usagara Water Supply Project. The funds available for the project implementation did not include for the implementation of the sanitation project, and MWAUWASA together with the MoW are considering seeking additional funding from AFD, EIB and the EU to ensure the continuation of implementation of Stage 1 works required in for water supply in southern parts of Mwanza City and Neighbouring Areas together with simplified sewer systems in ten low income areas in Nyamagana and Illemela Municipalities of Mwanza City. Consequently, MWAUWASA requested additional services to be provided by the Consultant to carry out project feasibility study and preliminary designs together with cost estimates for a simplified sewer system in the ten selected areas.

The main objective of the original Consultancy Services provided by SEURECA in JV with NETWAS (Tz) was to carry out Feasibility Studies, Environmental and Social Impacts Assessment (ESIA), Detailed Engineering Designs, Preparation of Tender Documents and Supervision of the Works Contract for water supply systems for Buhongwa, Buswelu, Kisesa and Usagara wards in Mwanza City and Neighbouring Areas.

The main objectives of the services contracted under Addendum No. 2 to SEURECA in JV with NETWAS (Tz) assignment are two-fold: -

- Update the Water Supply Feasibility Study and Preliminary Designs to incorporate extension of Butimba WTP including solar system for Mwanza South Water Supply Project

- Prepare Feasibility Study and Preliminary Designs for Simplified Sewer Systems in Ten Areas
- Conduct prerequisite Environment and Social Impact Assessment together with Resettlement Action Plans, Gender Action Plan, Implementation Plan and Logical Framework.

The scope of services to be executed under Addendum No. 2 consultancy services comprises of the following:

- Review of designs for extension of Butimba water treatment plant
- Review of designs for Butimba solar power generation plant
- Simplified Sewer Systems in 10 areas (Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo and Bugarika)
- Complete and update the infrastructure feasibility studies, including technico-economic considerations, O&M considerations, and carbon-footprint calculations
- Complete and update overall E&S documentation (ESIA & RAP)
- Design a project-specific gender-inequality reduction action plan (Gender Action Plan – GAP)
- Update the project basic presentation (overall budget, log frame, procurement plan, etc.)

MWAUWASA has recently implemented simplified sewer systems (SSS) in some pilot areas in Mwanza and intends to implement similar models in the selected ten (10) locations within Mwanza Municipality.

The specific objective of the assignment is to prepare a technical feasibility study and preliminary designs for Simplified Sewer Systems in 10 areas of Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo and Bugarika.

The simplified sewer systems will collect wastewater from the areas and feed into the main sewer line, which goes to the Sewer Treatment Plant in Butuja, Ilemela. The Client provided the Consultant with previous designs of the SSS that they have implemented in order that the Consultant can use it as a model. The Client also provided the relevant drawings and information on the existing sewer network in order for the Consultant to establish which sewers to connect the SSS to in each area.

1.2. RATIONALE OF THE SSS PROJECT

Due to the nature of the area being located in the rocky hills with steep slope and characterized by unplanned settlements with no roads for vehicles access, the onsite sanitation system is the challenges and conventional sewer networks are inappropriate or difficult to implement due to the

area's physical conditions, unplanned and dense housing together with prevailing low income levels. These houses are congested with the areas considered to have high population density compared to the lower lands of the City. The project areas are generally composed of low-income households with limited accessibility from the main roads to the houses with the types of houses that are comparatively low-cost houses.

Due to the above mentioned factors, the upper rocky hills areas are currently facing various environmental and social challenges such as improper sewerage management, lack of access to proper sanitation, improper solid waste management, and the resultant health hazards, etc. These conditions impede socio-economic growth and degrade the environment.

Implementation of the simplified sewerage system in those areas will improve sanitation conditions through simplified sewerage systems that will contribute significantly to public health outcomes, Proper disposal of human waste that will help to prevent the spread of waterborne diseases, leading to healthier communities and reduced healthcare costs. Also the Simplified sewerage system materials and construction methods will reduce the financial burden on municipalities and residents, making sanitation infrastructure more affordable and accessible.

1.3. LVWATSAN – MWANZA PROJECT FUNDING

The Project is financed under the European Union (EU) Africa Infrastructure Trust Fund within the overall context of the EU and Africa Strategic Partnership. The European Investment Bank (EIB) and the Agence Française de Développement (AFD) are responsible for financing the project. The overall cost of the project is not yet known as currently MWAUWASA together with the MoW are considering seeking additional funding from AFD, EIB and the EU to ensure the continuation of implementation of Stage 1 works required in for water supply in southern parts of Mwanza City and Neighbouring Areas together with simplified sewer systems in ten low income areas in Nyamagana and Ilemela Municipalities of Mwanza City. The total Project cost will be estimated after signing the contract.

1.4. SCOPE OF THE PROJECT

MWAUWASA has recently implemented simplified sewer systems (SSS) in some pilot areas in Mwanza and intends to implement similar models in the selected ten (10) locations within Mwanza Municipality. The specific objective of the assignment is to prepare a technical feasibility study and preliminary designs for Simplified Sewer Systems in 10 areas of Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo and Bugarika. The simplified sewer systems

will collect wastewater from the areas and feed into the main sewer line, which goes to the Sewer Treatment Plant in Butuja, Ilemela.

This report is limited to the Environmental and Social Management Plan for Simplified Sewer Systems in 10 areas of Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo and Bugarika.

1.5. APPROACH AND METHODOLOGY

1.5.1. LITERATURE REVIEW

To gather current secondary data and information pertinent to the research field, documents, design reports, and other records were examined. The Simplified Sewerage System's previous ESMP report, which was for the pilot and scale-up phase, as well as reports on education, health, and community development, as well as district socioeconomic and investment profiles, were among the reports that were examined. To obtain the population data for the ten SSS areas, the National 2022 Population Census, Settlement Development Plans, and other pertinent papers were examined.

The environmental expert also gathered and examined the profiles of the districts of Ilemela and Nyamagana in order to extract and synthesize data on demographics, socioeconomic status, the availability of social services, including water, gender issues, and land use in each district.

1.5.2. IN-DEPTH DISCUSSIONS WITH KEY INFORMANTS

Comprehensive conversations were held with key informants, including representatives from the local community and ward-level officials.

1.5.3. PUBLIC CONSULTATIVE MEETINGS

Public meetings were held with community members whereby issues related to the simplified sewerage system were presented through which respective local communities raised their concerns as indicated in the section for public consultation. The meetings were held in the areas of Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo, and Bugarika.

1.5.4. VISUAL OBSERVATION

Transect walks were used to make the observation in order to gather detailed information about the current natural environment. In order to study the nature of the locations, the method utilized in the construction of the SSS for scale up and pilot phase, as well as the existing onsite sanitation system in the areas, the consultant was able to visit all sites with the current Simplified Sewerage System and proposed SSS Sites. Additionally, the consultant was able to gather the lessons learnt through social study. The current residential and commercial on-site sanitation infrastructures, such

as septic tanks and toilets, settlement patterns, and other economic activities, as well as business infrastructure like public toilets at marketplaces and schools were observed during the site visit.

2. DESCRIPTION OF THE PROJECT

2.1. INTRODUCTION

This chapter describes the location, area description, physical characteristics and demographics of the selected ten (10) project locations of Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo and Bugarika.

2.2. PROJECT LOCATION

The project area is located in Mwanza City (Nyamagana) and Ilemela Municipal areas on the southern shores of Lake Victoria in Northwest Tanzania. Mwanza City is made up of Nyamagana and Ilemela Districts. The target areas for the Simplified Sewer System are indicated in Figure 1 below.

Mwanza City Council is located on the southern shores of Lake Victoria (Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo and Bugarika) in northwest Tanzania. It is situated between the latitudes 2 015' and 2 031' South of Equator, Longitude 32 0 45' and 33 0 East. Mwanza City is characterised by an urban settlement with a commercial and industrial set up.

Ilemela Municipal Council lies on the southern shores of Lake Victoria within Mwanza Region between Latitude 2015" and 2031" South of the Equator and Longitude 320 45" and - 3302" East of Greenwich approximately 1,140 metres above sea level. The municipality is bordered by Lake Victoria on its Northern and Western parts with a distance of about 12 kilometres, whereas on its Eastern part it is bordered by Magu District and on its Southern part is bordered by Mwanza City Council. It is located 16 Kilometres West of Mwanza International Airport. This council has a total surface area of 1080.55 sq. kms out of which 828.45 sq.kms (77%) is covered by water body (Lake Victoria) and 252.10 (23%) sq. kms are land area.

The selected ten (10) project areas are located in thirteen (13) different wards of Pasiansi, Kawekamo, Ibungilo, Kitangiri, Kirumba, Nyamanoro, Nyasaka, Isamilo, Mbugani, Mabatini, Buzuruga, Igogo and Mkuyuni. All the selected areas are smaller than their respective wards, but some project areas overlap within more than one ward. Table 1 below and Figure 1 presents how the project locations are distributed within several wards.

Table 1 : **Project Locations, Wards and Area Covered**

Sn	Project Location	Location UTM Coordinates (WGS 84)		Area Covered (m ²)	Name of Wards
1	Ibungilo	489413 m E	9725552 m S	361,107	Pasiansi, Ibungilo
2	Pasiansi	490259 m E	9725280 m S	240,958	Ibungilo, Kawekamo
3	Kabuhoro	487520 m E	9723673 m S	336,206	Kirumba
4	Kitangiri	488286 m E	9724173 m S	800,898	Kitangiri, Kirumba
5	Kilimahewa	490257 m E	9723303 m S	1,662,444	Nyamanoro, Nyasaka, Isamilo
6	Isamilo	490547 m E	9722316 m S	391,331	Isamilo
7	Mabatini	490341 m E	9721524 m S	544,718	Isamilo, Mbugani, Mabatini
8	Ustawi	491883 m E	9720940 m S	187,987	Mabatini, Mbugani, Buzuruga
9	Igogo	489566 m E	9719987 m S	331,248	Igogo
10	Bugarika	489895 m E	9718616 m S	156,688	Igogo, Mkuyuni

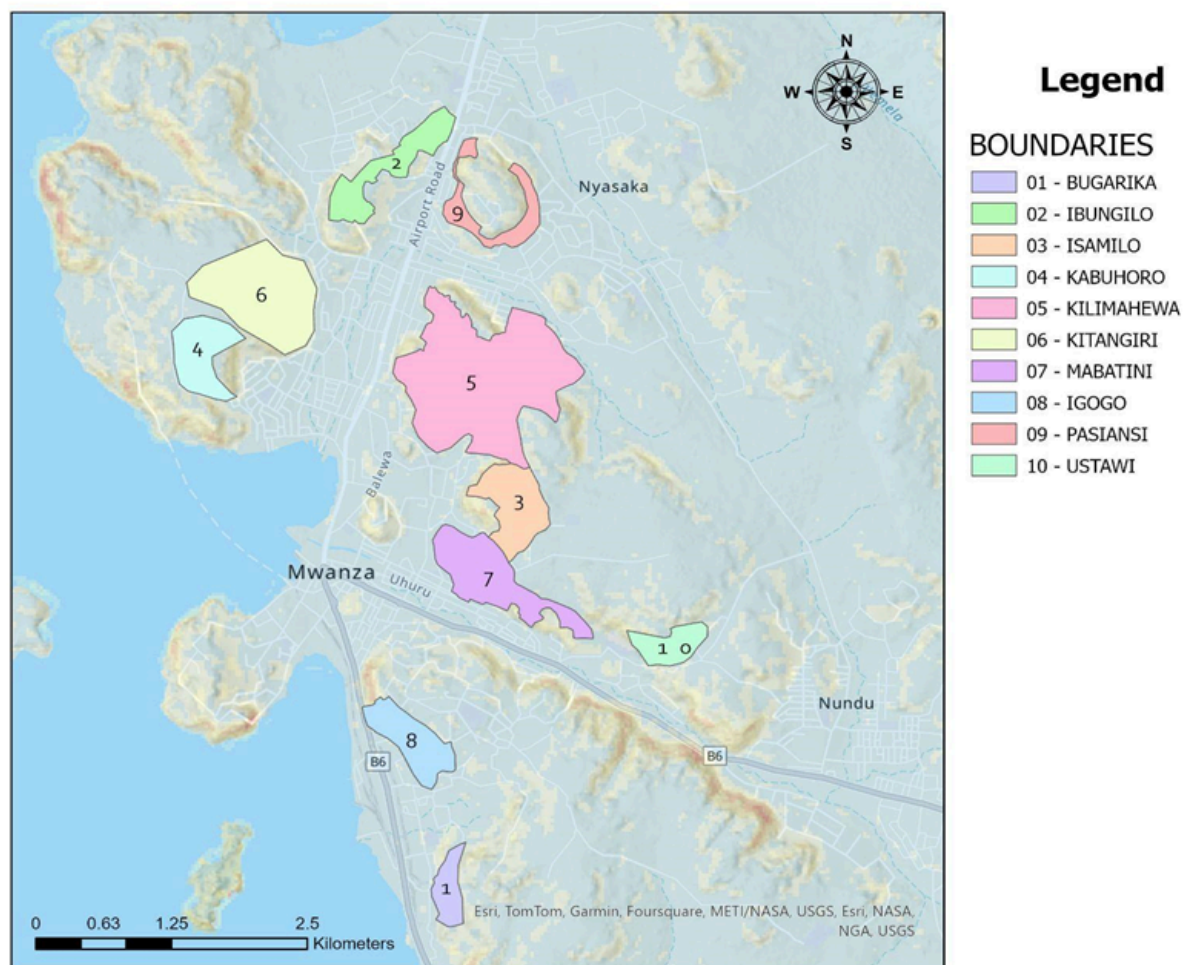


Figure 1 :Project Location Map(Google Map)

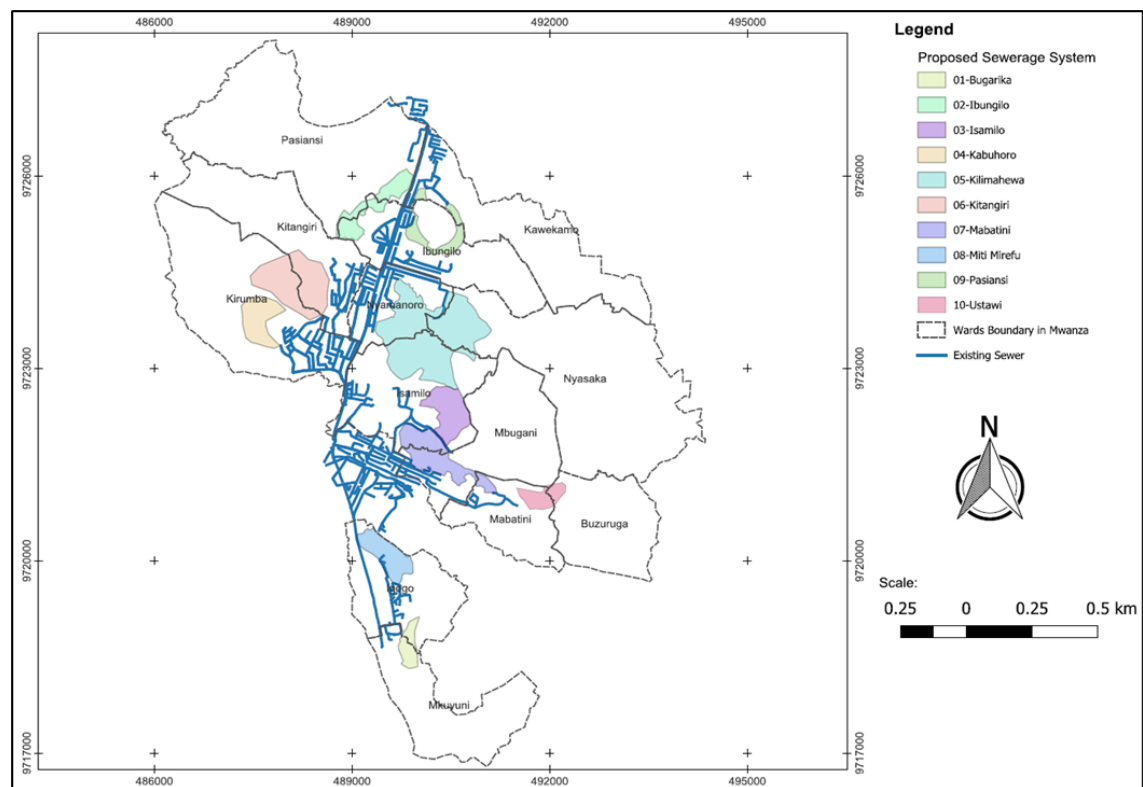


Figure 2 Map of the Project Area and Existing Public Sewerage System

2.3. PROJECT BOUNDARIES

Determining the boundaries within which the present study will be undertaken is an important step in the identification of impacts, since it will also determine the extent to which the impacts will be experienced.

Spatial Boundary: Spatial boundaries are difficult to determine but they are crucial for restricting the impact area. In this study, the area where the project is located, and which will bear the most impacts is considered as the Direct Impact Area (Ilemela and Nyamagana Municipal), whereas the surroundings of the direct influence area are considered as Indirect Impact Area, from where different services like labour, food, goods etc. would be obtained for the project.

Temporal Boundary: Temporal boundaries refer to the lifespan and reversibility of impacts. The impacts of construction work of the Simplified Sewerage System may be short-lived, but its presence in the area may have implications that stretch far into the future. The impacts on air, environment, ground water etc., would occur throughout the operation phase.

2.4. PROJECT DESCRIPTION

Proposed Simplified sewer works to be implemented in the ten project areas within Mwanza comprises the following;

- 45.9km of PN10 OD160 HDPE collector Sewer Pipelines
- 132 km of PN10 OD110 HDPE house connections and collector sewer pipelines
- 18,143 House Connections Screens and Fittings
- 22,552 No. 450 x 450mm and 1,534 No. inspection and sewer concrete chambers
- 68,449m of 1.2m wide concrete slab and stairs along walkways protection for above ground sewers
- 74,024m of 0.4x0.4m concrete strip protection for above ground sewers
- 9,181m of OD160 and 26,437m of OD110mm pipe trenches with depth range of 0.4-0.6m including rock excavation.

The proposed simplified sewer works to be implemented comprises laying 178.1km of sewer pipes, 35.6km trench excavations, 24,086No. manholes, 142.5 km of concrete strips/slabs/stairs and 18,143 that would be constructed over a period of 12 months.

Due to the nature of the works, congested working spaces, steep slopes and inaccessible sites, it is not expected that these simple works would mainly be executed manually and would not attract large international contractors. In order to attract medium sized regional and local contractors with adequate capacity, it is proposed to implement the works under three separate contract packages, each covering 3-4 project areas that are adjacent to each other, as follows:

- **Contract SS/A: Construction of Simplified Sewer Systems in Bugarika, Igogo and Ustawi Areas;** This scope of work would cover the construction of the sewer pipes, trench excavations, manholes, concrete strips/slabs/stairs and house connection fittings/screens.
- **Contract SS/B: Construction of Simplified Sewer Systems in Isamilo, Kilimahewa and Mabatini Areas;** This scope of work would cover the construction of sewer pipes, trench excavations, manholes, concrete strips/slabs/stairs and house connection fittings/screens.
- **Contract SS/C: Construction of Simplified Sewer Systems in Ibulingo, Kabuhoro, Kitangiri and Pasiansi Areas;** This scope of work would cover the construction of sewer pipes, trench excavations, manholes, concrete strips/slabs/stairs and house connection fittings/screens.

The simplified sewer systems will collect wastewater from the areas and feed into the main sewer line, which goes to the Sewer Treatment Plant in Butuja, Ilemela. The Client provided the

Consultant with previous designs of the SSS that they have implemented in order that the Consultant can use it as a model. The Client also provided the relevant drawings and information on the existing sewer network in order for the Consultant to establish which sewers to connect the SSS to in each area.

All the project areas comprise unplanned settlements where there are no roads for vehicles access, due to undulating hilly terrain and considering how the people have constructed houses, it is not possible to incorporate future plans for roads. The houses are congested with the areas considered to have high population density compared to the lower lands.

2.5. PROJECT ACTIVITIES

2.5.1. MOBILIZATION ACTIVITIES

The project activities, once designs and tender documents are completed, tenders are advertised, procured by prospective contractors and finally contract(s) are awarded, will be assumed to follow project routines whereby there are mobilization activities, construction activities and finally construction completion, commissioning of the project, operations and maintenance activities.

The first stage will involve mobilization of the construction human resource, construction equipment and plant, construction materials and erection of worker's camp (if required). At this stage of environmental consideration there will be wastes (mainly solid and liquid) generated from construction of camps. The staff camps like any other domestic place will generate garbage, packaging, sacks, papers, cardboard boxes, plastic, wood crates, bottles, glass, metal cans and the like. Such wastes will need to be segregated for recycling or incinerating at designated project sites.

All project activities including construction of the manholes, Inspection Chambers, excavations for Simplified Sewerage System, collector Sewer Pipelines will be carried out in areas currently used for other activities or along the tracks or streets and access roads within the boundaries of the identified project sites without disturbing or obstructing the neighbours and businesses.

2.5.2. CONSTRUCTION PHASE

The main aspect of the construction activities of Simplified sewerage System is the transport of aggregate, sand, cement, steel, pipe sections and other equipment to the construction areas, dedicated storage areas and construction camps.

Practical temporary works: During the installation of Simplified sewer System, suitable temporary work will be made so that proper dedicated area earmarked is made available for construction

purpose and also for ensuring the safety of workers, Laying of pipelines. The proposed simplified sewer works to be implemented comprises 178.1km of sewer pipes, 35.6km trench excavations, 24,086No. manholes, 142.5 km of concrete strips/slabs/stairs and 18,143 No. house connection fittings/screens.

2.5.3. OPERATION PHASE

Major activities during the operation phase will be gravity flow of sewers as well as preventive maintenance of the network.

2.5.4. DECOMMISSIONING PHASE

During this phase, the system will be replaced over the course of time and maintenance of the Simplified Sewerage System will be regularly done. In the event of the SSS or other components of its infrastructure to be decommissioned, a decommissioning plan will be prepared.

2.6. MATERIALS TO BE USED, WASTE GENERATION AND DISPOSAL METHODS

2.6.1. MOBILIZATION PHASE MATERIALS

Site Preparation - Preparation of the site for proposed Simplified Sewerage System will automatically result in disturbance around the site of works. The first stage will involve mobilization of the construction human resource, construction equipment and plant, construction materials and erection of worker's camp (if required). At this stage of environmental consideration there will be wastes (mainly solid and liquid) generated from construction of camps. The staff camps like any other domestic place will generate garbage, packaging, sacks, papers, cardboard boxes, plastic, wood crates, bottles, glass, metal cans and the like. Such wastes will need to be segregated for recycling or incinerating at designated project sites.

2.6.2. REQUIRED CONSTRUCTION MATERIALS

Common materials for sewer pipes include: unplasticized polyvinyl chloride (uPVC) pipes, high density polyethylene (HDPE) pipes, Double Walled Corrugated (DWC) pipes, precast concrete pipes, ductile iron (DI) pipes, glass reinforced plastic (GRP) pipes and steel pipes. Due to local availability HDPE which is manufactured within the country would be the most suitable for use in the simplified sewer system for the project areas but needs to be covered to avoid deterioration due to sunlight exposure. The stage of covering the SSS pipes will involve the use of concrete for covering the SSS, also the commonly used material for sewer manholes is concrete due to their durability and resistance to sewage aggressiveness. The main construction materials will be aggregates, cement, sand, and water for concrete for both SSS covering and Manhole

Construction. Borrow materials to be used for construction will be collected from the identified borrow areas such as those used for the previous SSS project construction in the area.

2.6.3. WASTES

Food scraps, cardboard boxes, and paper wastes are examples of biodegradable materials that will be gathered and dumped in hygienic landfills with other solid wastes. Additional materials will be gathered and delivered to recycling facilities, including plastics, metal straps, pipes, and useless wood boxes. Excavation waste from building manholes and, if needed, sewer pipes will be used as filler for refilling the borrow pits.

2.6.4. WASTEWATER MANAGEMENT

In specific project areas, there are currently Simplified Sewerage Systems in place, whereas in other areas there are none at all. In areas without SSS system, any waste water generated as a result of proposed work will be disposed of on-site, unless the site decides to use a different waste disposal system that has been approved. Otherwise, any waste water generated as a result of proposed work will be disposed of on-site at the same location. The SSS that now exists in the project regions will be connected to the waste water from the construction site for areas with SSS System.

2.6.5. DEMOBILIZATION MATERIAL WASTES

All construction waste items, including plastics, residual HDPE pipe, and recyclable metal plates, will be collected and delivered to recycling centers once construction works are completed. The contractor will filter the unusable aggregates, which include concrete waste, chippings, and sand, and separate the good aggregates for use at other sites.

3. POLICY, ADMINISTRATIVE AND LEGAL FRAMEWORK

3.1. INTRODUCTION

The proposed project is governed by a number of laws. The national laws, rules, and regulations that are pertinent to the project are listed and addressed in this chapter. Understanding the objectives of the regulatory framework concerning the social and environmental implications of the project activities that are being proposed is the aim of this chapter. The preparation of this EMSP report will adhere to both relevant international standards and Tanzania's national legislative obligations. In addition, Tanzania's ratified treaties, protocols, and international organization directives will be taken into consideration.

3.2. APPLICABLE NATIONAL LAWS AND POLICIES

3.2.1. THE NATIONAL ENVIRONMENTAL POLICY, 1997

Ensuring sustainability, security, and equitable resource usage is the policy's primary goal. Specific goals include: preventing and controlling the degradation of land, water, vegetation, and air; conserving and enhancing the natural and man-made heritages; improving the state and productivity of degraded areas, including rural and urban settlements; increasing public awareness of the critical connections between environment and development; encouraging individual and community involvement in environmental action; fostering international cooperation on the environment agenda, including treaty implementation; protecting water sources and preventing environmental pollution through integrated planning and implementation of water resources and other development programs.

SPECIFIC REFERENCE IN THIS ESMP: The proposed project aims to improve the sanitation facilities in the project area which will further contribute to environmental protection. The goal of this policy is to guarantee that development initiatives are carried out in a way that is both socially and environmentally acceptable as well as economically feasible. The proposed SSS project activities have the potential to degrade land and water, and the generated effluent water may contaminate the marine ecosystem. In order to comply with this policy, suitable mitigation actions have been outlined in the ESMP to prevent and/or reduce the impact as a compliance with this policy.

3.2.2. NATIONAL WOMEN AND GENDER DEVELOPMENT POLICY, 2000

The objective of the policy is to provide guidelines that will ensure that gender sensitive plans and strategies in all sectors and institutions are developed. The policy advocates opportunities for both men and women in projects including construction works and related activities, and for involvement of women at all levels of the project-- from planning to implementation. It aims to eradicate poverty and emphasizes gender equality and equal opportunity for both men and women to participate in development undertakings.

SPECIFIC REFERENCE IN THIS ESMP: The proposed project will encompass all aspects of gender-based issues specific to sanitation services. Improved sanitation facilities in the area will be made accessible to all, irrespective of gender. These will be accomplished by sensitising communities and other stakeholders on gender balance in environmental management, and provision of tools and facilities for the protection and conservation of environment.

3.2.3. CONSTRUCTION INDUSTRY POLICY, 2003

The goal of the Construction Industry Policy is to increase the sector's efficiency and capacity to fulfill the demand for buildings and other physical infrastructure facilities on a national scale. It aims to improve the capacity and performance of the public sector and private sector clients to ensure efficient, transparent, and effective implementation and management of construction projects and application of practices, technologies, and products which are not harmful to both the environment and human health. This increases the competitiveness and capacity of local construction enterprises.

SPECIFIC REFERENCE IN THIS ESMP: The project's implementation will be made efficient, transparent, and effective by employing methods, tools, and materials that are safe for the environment and people's health. By suggesting/recommending materials for construction, methods, and SSS technologies for the proposed project that are not harmful to the environment or public health, the policy is referred to and comply with.

3.2.4. NATIONAL TRANSPORT POLICY, 2003

It provides efficient and cost-effective domestic and international transport services to all the population and sectors of the national economy with maximum safety and minimum environmental degradation. To ensure road transportation that is environment friendly and sustainable, the policy provides for an adequate drainage system during design, construction and maintenance of urban road infrastructure.

SPECIFIC REFERENCE IN THIS ESMP: In order to assure road traffic safety management, a traffic management plan will be prepared during the construction phase of the project. To guarantee that the objective of this policy is met, a traffic management plan has been proposed in the environmental and social management plan (ESMP) of the present study.

3.2.5. NATIONAL POLICY ON HIV/AIDS, 2001

The policy has the objective to create and sustain an increased awareness of HIV/AIDS through targeted advocacy, information, education, and communication. It aims to prevent further transmission of HIV/AIDS by making blood and blood products safe, promoting safer sex practices.

SPECIFIC REFERENCE IN THIS ESMP: In order to assure road traffic safety management, a traffic management plan will be prepared during the construction phase of the project. In order to accomplish the objective of this policy, the mitigating measures have been provided in the ESMP to guarantee that all significant project stakeholders are actively engaged in HIV/AIDS activities and to offer a framework for coordination and collaboration.

3.2.6. SUSTAINABLE INDUSTRIES DEVELOPMENT POLICY, 1996

The policy ensures that the industrial sector is focused on equitable development through structural reorientation and the advancement of sustainable technology, as well as human development, employment opportunities, external balance of payments, and economic transformation for achieving sustainable economic growth.

SPECIFIC REFERENCE IN THIS ESMP: The project will guarantee that the local population is involved in its execution. In the ESMP, appropriate mitigation measures have been suggested at every stage of the project to guarantee the promotion of ecologically sustainable and environmentally friendly development.

3.2.7. NATIONAL HUMAN SETTLEMENTS DEVELOPMENT POLICY, 2000

By improving the standard of social services and infrastructure for the establishment of sustainable human settlements, the policy encourages the creation of sustainable human settlements and makes it easier for Tanzania's income groups to afford decent housing. Furthermore, it eradicates poverty and generates job chances.

SPECIFIC REFERENCE IN THIS ESMP: The project will improve sanitation services of the project area and create employment opportunities. The ESMP study will establish adequate mitigation to prevent air pollution, waste pollution, and other environmental or social issues that could negatively affect workers' lives generally and quality of settlement in particular.

3.2.8. NATIONAL HEALTH POLICY, 2003

By providing appropriate and equitable maternity and child health services, the policy seeks to lower the burden of diseases, decrease maternal and newborn deaths, and lengthen life expectancy. It encourages the treatment of common ailments, proper diet, prevention of infectious diseases, and environmental health and cleanliness.

SPECIFIC REFERENCE IN THIS ESMP: The project will improve environmental health and sanitation of the area. The proposed Simplified Sewerage System will improve the health status of the project area by avoiding major waterborne diseases.

3.2.9. NATIONAL EMPLOYMENT POLICY, 1997

In order to lower unemployment and underemployment rates and raise labor productivity, the policy guaranteed gainful and freely selected productive employment. For women, young people, and individuals with disabilities who are vulnerable, it advocates equitable access to resources and work possibilities. Through the protection of workers' fundamental rights and interests in compliance with international labor standards, it guarantees social inclusion and income stability. Encouraging equal access to resources and job opportunities for marginalized populations such as women, adolescents, and individuals with impairments.

SPECIFIC REFERENCE IN THIS ESMP: The project will improve the economic status of the project area by increasing the employment opportunities. It is also recommended to employ workers within the project area.

3.3. NATIONAL LEGISLATION AND REGULATIONS

3.3.1. THE ENVIRONMENTAL MANAGEMENT ACT (EMA) 2004

It offers an institutional and legal foundation for environmentally sound management. It describes the fundamentals of management, risk and impact assessments, waste management, pollution prevention and control, environmental quality standards, public involvement, compliance, and enforcement. The Act establishes the framework for the National Environment Policy and international environmental instruments. It also ensures the National Environment Management Council (NEMC) will continue to exist, establishes the National Environmental Fund, and addresses other relevant issues. In order to develop policies for coastal and marine management, it also gives the NEMC the authority to collaborate with local government bodies.

SPECIFIC REFERENCE IN THIS ESMP: An overall guidance on the preparation of the ESMP is provided by this Act. The project involving sewer network construction must ensure sustainable environmental management and utilization of natural resources.

3.3.2. THE WATER SUPPLY AND SANITATION ACT, 2019

The Act makes it possible to establish organizations dedicated to community-owned water supply, sanitation authorities, and water supply. In addition, the Waterworks Act is repealed and service provider appointments are made possible. Its goals are to provide transparent regulations, adequate operations, and sustainable management of sanitation and water supply.

SPECIFIC REFERENCE IN THIS ESMP: The proposed project will improve sanitation services in the area. The proposed project will enable access to a sustainable, effective, and efficient sanitation service provider in accordance with the act's goal. This ensures that water sources are preserved and protected by preventing waste from being discharged into surface and underground water bodies.

3.3.3. THE ROAD ACT, 2007

The Road Act works on making provisions for road financing, development, maintenance, management and other related matters. The responsibilities of the ministry include formulating road policy, preparing and coordinating the implementation of roads investment and development programmes, preparing guidelines, standards and specifications for road works and monitoring the performance of the road network, to oversee and monitor road safety and environmental issues. The road authority is responsible for development, maintenance and management of public roads and related facilities.

SPECIFIC REFERENCE IN THIS ESMP: The Simplified Sewerage System sewer network is proposed along the public roads. The proposed SSS Pipes will pass along the road's pathways. As per the design the provision of the concrete stairs in the area of upper hills with steep slope has been proposed and taken into consideration in this ESMP.

3.3.4. THE SOLID WASTE MANAGEMENT ACT, 2009.

The Act stipulates that solid waste must be managed in accordance with the best available environmental principles. It establishes rules and regulations for waste management, separation, and processing. It also specifies how different types of wastes should be handled, including disposal, for which there are options for reuse, recycling, or composting. Additionally, it specifies costs for the issuance of licenses, permits, inspections, and other waste management-related

services. It also defines the licensing and permitting system for the control of waste management facilities, equipment, and waste haulage.

SPECIFIC REFERENCE IN THIS ESMP: Waste from project operations will be generated during the project's construction and operating phases. These regulations will apply to the project since it will be essential to handle and properly dispose of the waste produced in compliance with them.

To achieve the goal of this act, a waste management plan detailing how to handle solid waste developed during the construction and operation phase has been proposed in the ESMP of this report.

3.3.5. THE EMPLOYMENT AND LABOUR RELATIONS ACT, 2004.

The Employment and Labour Relations Act makes provisions for core labour rights, establishes basic employment standards, provides a framework for collective bargaining, works to prevent and settle disputes and related matters.

SPECIFIC REFERENCE IN THIS ESMP: The project will offer employment that complies with the law to create equitable and productive work environments. When hiring workers to complete the proposed project's development and operation, the contractor shall abide by all Act requirements. Additionally, the contractor works to end discrimination in all employment practices and policies and guarantees equal employment opportunities.

3.3.6. THE OCCUPATIONAL HEALTH AND SAFETY ACT, 2003.

The Act repeals the Factories Ordinance. It makes provisions for the safety, health and welfare of workers in factories and other places.

SPECIFIC REFERENCE IN THIS ESMP: In the ESMP, it is recommended to ensure a safe working environment to all its workers, provide clean and safe water, as well as a sanitary and first aid facility to fulfill this act during the construction and operation phase of the project.

3.3.7. THE HIV AND AIDS (PREVENTION AND CONTROL) ACT, 2008.

The Act addresses HIV and AIDS prevention, treatment, care, support, and control. It advances public health about HIV and AIDS and offers persons living with or at risk of HIV and AIDS effective care, treatment, and support via the use of existing resources. The ministry is in charge of putting in place an extensive system of monitoring and assessment procedures to ascertain the scope and trajectory of HIV infections as well as other issues pertaining to HIV and AIDS.

SPECIFIC REFERENCE IN THIS ESMP: According to this ESMP, the contractor should raise employee knowledge of HIV and AIDS causes, routes of transmission, consequences, and prevention.

3.3.8. WORKERS COMPENSATION ACT, 2008.

The Act provides information on compensation to employees in case of death, disabilities, injuries or diseases sustained when in employment, and establishes a fund for administration and regulation of workers compensation. It provides rehabilitation and adequate compensation to employees who suffer occupational casualties.

SPECIFIC REFERENCE IN THIS ESMP: The project will guarantee that workers who sustain injuries at work receive proper rehabilitation and compensation. For the duration of the planned project, the contractor in charge of its implementation is required to comply with these acts on behalf of each of his employees.

3.3.9. THE PENAL LAW (THE PENAL CODE AS AMENDED BY THE SEXUAL OFFENCES SPECIAL PROVISIONS ACT 1998.)

The Act provides information about sexual offenses, its provisions and amendments.

SPECIFIC REFERENCE IN THIS ESMP: The project will ensure safety of female employees. For the duration of the planned project, the contractor in charge of its implementation is required to comply with these acts on behalf of each of his employees.

3.3.10. THE ENVIRONMENTAL IMPACT ASSESSMENT AND AUDIT REGULATIONS, 2005.

The main objectives of environmental audit are to determine how far activities and processes of a project or undertaking conform with the approved environmental and social management plan of that specific project, environmental management practices and environmental quality standards. It provides regulatory bodies with a framework to check the performance of an Environmental and Social Management Plan and its compliance with the prescribed standards.

SPECIFIC REFERENCE IN THIS ESMP: The regulations outline the EIA process from project registration to the issuance of EIA certificate. Environmental management plan and monitoring plan has been prepared complying with the prescribed standards as per these regulations.

3.3.11. THE ENVIRONMENTAL (REGISTRATION OF ENVIRONMENTAL EXPERTS) REGULATIONS, 2005.

A framework for environmental professionals to register is established under these regulations. To ensure that environmental impact assessments and audits are completed in an impartial, professional,

and independent manner, they offer a framework for professional conduct when conducting environmental impact studies and audits.

SPECIFIC REFERENCE IN THIS ESMP: As per the regulation, registered experts with NEMC have been involved in the preparation of this ESMP Report.

3.4. PLANS

3.4.1. THE NATIONAL PLAN OF ACTION TO END VIOLENCE AGAINST WOMEN AND CHILDREN IN TANZANIA 2017/18 – 2021/22

To create a single comprehensive National Plan of Action to eradicate violence against women and children in the nation, eight separate action plans addressing the issue were combined to create the five-year National Plan of Action to End Violence Against Women and Children (NPAVAWC 2017/18 – 2021/22).

SPECIFIC REFERENCE IN THIS ESMP: The project's execution may result in violence against women and children. The project's contractor is required to abide by acts.

3.5. THE WORLD BANK ENVIRONMENTAL AND SOCIAL FRAMEWORK (ESF).

The World Bank Environmental and Social Framework sets out the World Bank's commitment to sustainable development, through a Bank Policy and a set of Environmental and Social Standards that are designed to support Borrowers' projects, with the aim of ending extreme poverty and promoting shared prosperity. This Framework comprises:

- A Vision for Sustainable Development, which sets out the Bank's aspirations regarding environmental and social sustainability
- The World Bank Environmental and Social Policy for Investment Project Financing, which sets out the mandatory requirements that apply to the Bank; and
- The Environmental and Social Standards, together with their Annexes, which set out the mandatory requirements that apply to the Borrower and projects.

This team has reviewed the above framework's components' relevance to the Project as shown in the below sub sections;

3.5.1. VISION FOR SUSTAINABLE DEVELOPMENT

The World Bank Group recognizes that, in a world with limited natural resources, environmental sustainability is crucial and is dedicated to promoting stronger global action to promote mitigation and adaptation of climate change. It acknowledges that projects' locations and characteristics are changing due to climate change and that projects sponsored by the World Bank ought to lessen their environmental effect by selecting alternatives with fewer carbon emissions.

In addition, ensuring sustainable development and social development are essential for all of the World Bank's development operations. These global goals are translated into better development possibilities for everybody, especially the impoverished and vulnerable, and encouraging the sustainable management of natural resources at the project level.

The design of the Simplified Sewerage System has observed the climate change adaptation strategies for sustainability of the Sewerage infrastructure.

3.5.2. WORLD BANK ENVIRONMENTAL AND SOCIAL POLICY FOR INVESTMENT PROJECT FINANCING

The Bank's mandatory conditions for projects it supports through Investment Project Financing are outlined in this Environmental and Social Policy for Investment Project Financing. In addition to strengthening the ability of Borrowers' environmental and social frameworks to assess and manage the environmental and social risks and impacts of projects, the Bank is dedicated to assisting the Tanzanian government in developing and implementing environmentally and socially sustainable projects. In compliance with this Environmental and Social Policy for Investment Project Financing (Policy), the Bank will help the Tanzanian government in applying the ESSs to projects backed by Investment Project Financing.

In order to prepare the Environmental and Social Management Plan (ESMP) and other supporting Environmental and Social Safeguard Instruments, such as the Labour Management Procedures (LMP), the Resettlement Policy Framework (RPF), and the Stakeholders Engagement Plan (SEP), the Simplified Sewerage System project involved a number of stakeholders. On the other hand, the suggested SSS Project ESMP Preparations have been made in accordance with the Environmental and Social Policy for Financing Investment Projects. As stated in chapter 5 of this ESIA, numerous stakeholders were involved in the study, ranging from Mtaa level to National Level, and their opinions were recorded and utilized to shape the suggested subprojects' designs.

Furthermore, project-specific SEPs, RPFs, and LMPs have been created to direct the execution and management of the suggested project.

3.5.3. ENVIRONMENTAL AND SOCIAL STANDARDS

3.5.3.1. ENVIRONMENTAL AND SOCIAL STANDARD 1: ASSESSMENT AND MANAGEMENT OF ENVIRONMENTAL AND SOCIAL RISKS AND IMPACTS

In order to achieve environmental and social outcomes consistent with the Environmental and Social Standards (ESSs), ESS1 lays out the Borrower's responsibilities for assessing, managing, and monitoring environmental and social risks and impacts associated with each stage of a project supported by the Bank through Investment Project Financing. In order to guarantee that projects are sustainable and sound from an environmental and social standpoint, borrowers will evaluate the projects' social and environmental aspects before submitting them for bank financing. The project's risks and effects will be taken into account when conducting the environmental and social evaluation. It will guide the project's design, help choose actions and mitigation strategies, and enhance decision-making.

RELEVANCY WITH THIS PROJECT: The proposed SSS project has been Prepared in accordance with this ESS 1 and has adequately undertaken stakeholders' engagement as required to create a sense of project's ownership by the communities and sustainability.

3.5.3.2. ENVIRONMENTAL AND SOCIAL STANDARD 2: LABOR AND WORKING CONDITIONS;

In order to reduce poverty and promote equitable economic growth, ESS2 acknowledges the significance of creating jobs and income. By treating project workers properly, providing safe and healthy working conditions, acceptable working contracts, and required working hours, borrowers can further increase the development advantages of a project and foster positive worker-management relationships.

RELEVANCY WITH THIS PROJECT: MWAUWASA, OSHA, and the project supervising engineer will perform periodical audits to ensure the project contractor is adhering to the objectives. To address labor-related concerns throughout the proposed Simplified Sewerage System Project's development and operation, however, labor management procedures (LMPs) have been established specifically for this project.

3.5.3.3. ENVIRONMENTAL AND SOCIAL STANDARD 3: RESOURCE EFFICIENCY AND POLLUTION PREVENTION AND MANAGEMENT

ESS3 acknowledges that economic growth and urbanization frequently result in resource depletion and contamination of the air, water, and land, endangering human health, ecosystem services, and the environment on a local, regional, and global scale. The well-being of present and future generations is at risk due to the existing and anticipated levels of greenhouse gases (GHG) in the atmosphere.

Simultaneously, access to and attainability of pollution prevention and GHG emission avoidance, mitigation technologies and techniques, and more effective and efficient resource use have increased.

RELEVANCY WITH THIS PROJECT: The Simplified sewerage systems typically will require less energy for operation compared to conventional systems. It will often use gravity to move wastewater instead of relying on energy-intensive pumps. This reduction in energy consumption directly lowers greenhouse gas emissions associated with Pump running electricity generation. In summary, simplified sewerage systems contribute to greenhouse gas reduction by reducing energy consumption, minimizing methane production, lowering construction-related emissions, and supporting more sustainable urban development practices.

3.5.3.4. ENVIRONMENTAL AND SOCIAL STANDARD 4: COMMUNITY HEALTH AND SAFETY;

ESS4 acknowledges that project operations, tools, and facilities may raise the risks and effects that communities are subject to. Furthermore, communities currently experiencing the effects of climate change may see an increase in intensity or acceleration of those effects as a result of project operations. ESS4 addresses the risks and implications to communities' health, safety, and security as well as the obligation of Borrowers to prevent or mitigate such risks and impacts, paying special emphasis to those who may be particularly susceptible due to their unique circumstances.

The Tanzanian government will take into account safety hazards to impacted people and other parties when designing, building, operating, and decommissioning the project's structural parts in compliance with national legislative requirements, the EHSs, and other GIIP.

In cases where the project includes providing services to communities, the borrower shall set up and put into place suitable quality management systems in order to foresee and reduce risks and the potential negative effects that these services may have on the health and safety of the community. When technically and financially possible, the Borrower shall also implement the idea of universal access in these situations.

RELEVANCY WITH THIS PROJECT: In accordance with the guidelines in this ESMP Report, the project will, during each phase of the project, identify, assess, and monitor any possible hazards to workers, impacted communities, and users of existing road pathways related to traffic and road safety. As necessary, it will also develop strategies and actions to mitigate these risks. To prevent and reduce potential safety concerns, the Environmental Expert has included technically feasible safety measures regarding the community health and Safety into the Environmental and Social Management Plan of this project.

3.5.3.5. ENVIRONMENTAL AND SOCIAL STANDARD 5: LAND ACQUISITION, RESTRICTIONS ON LAND USE AND INVOLUNTARY RESETTLEMENT

ESS5 recognizes that project-related land acquisition and restrictions on land use can have adverse impacts on communities and persons. Project-related land acquisition or restrictions on land use may cause physical displacement (relocation, loss of residential land or loss of shelter), economic displacement (loss of land, assets or access to assets, leading to loss of income sources or other means of livelihood), or both. The term “involuntary resettlement” refers to these impacts. Resettlement is considered involuntary when affected persons or communities do not have the right to refuse land acquisition or restrictions on land use that result in displacement.

As per Objective of this ESS 5, the Borrower shall consider feasible alternative project designs to avoid or minimize land acquisition or restrictions on land use, especially where this would result in physical or economic displacement, while balancing environmental, social, and financial costs and benefits, and paying particular attention to gender impacts and impacts on the poor and vulnerable and when land acquisition or restrictions on land use (whether permanent or temporary) cannot be avoided, the Borrower will offer affected persons compensation at replacement cost, and other assistance as may be necessary to help them improve or at least restore their standards of living or livelihoods.

RELEVANCY WITH THIS PROJECT: The consultant and the client have discussed workable alternative project designs to avoid the effects of physical and economic displacement of people while balancing the costs and benefits of the environment, society, and the economy. Alternative design approaches have been used in the design in order to minimise significant effects on houses and other structures. In order to avoid the impacts, the consultant and the client agreed the simplified Sewerage pipes to pass along the existing pathways and meandering around those houses when crossing them. For the pathways with steep slope the concrete stair may be constructed above the sewer line as this will help to minimize the effect of land use and also secure the system. For this project also, the RPF (Resettlement Policy Framework) has been prepared for this Project to guide any unintentionally Land Acquisition that would occur during the implementation of the project.

3.5.3.6. ENVIRONMENTAL AND SOCIAL STANDARD 6: BIODIVERSITY CONSERVATION AND SUSTAINABLE MANAGEMENT OF LIVING NATURAL RESOURCES

The essential biological roles of habitats, such as forests, and the biodiversity they sustain are acknowledged by ESS6. The sustainable management of primary production and the extraction of living natural resources are other topics covered by this ESS. The livelihood of project-affected parties, such as Indigenous Peoples, whose access to or use of biodiversity or living natural resources may be impacted by a project, must be taken into account, according to ESS6. The possible beneficial

contribution of project impacted parties, such as Indigenous Peoples, to the preservation of biodiversity and the sustainable use of live natural resources is also taken into account.

RELEVANCY WITH THIS PROJECT: Within Proposed Simplified Sewerage System areas there are no sensitive sites to be impacted by the proposed development during both construction and operation phases.

3.5.3.7. ENVIRONMENTAL AND SOCIAL STANDARD 7: INDIGENOUS PEOPLES/SUB-SAHARAN AFRICAN HISTORICALLY UNDERSERVED TRADITIONAL LOCAL COMMUNITIES

By ensuring that projects funded by the Bank increase opportunities for Indigenous Peoples and Sub-Saharan African Historically Underserved Traditional Local Communities to engage in and benefit from the development process in ways that do not threaten their distinctive cultural identities and well-being, ESS7 helps to reduce poverty and promote sustainable development. Making sure that historically underserved traditional communities of Sub-Saharan Africa and Indigenous Peoples who are present in the project area or have a collective attachment to it are fully consulted about project design and have opportunities to actively participate in project implementation arrangements is one of the main goals of this ESS. The project planning and documentation procedures, along with the extent and magnitude of potential risks and impacts, will be commensurate with the potential effects on Indigenous Peoples and Sub-Saharan African Historically Underserved Traditional Local Communities.

RELEVANCY WITH THIS PROJECT: Within the project areas, there is no existence of Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities.

3.5.3.8. ENVIRONMENTAL AND SOCIAL STANDARD 8: CULTURAL HERITAGE;

This ESS lays out broad guidelines on project-related hazards and effects on cultural heritage. Additional guidelines for cultural heritage in the context of Indigenous Peoples are outlined in ESS7. The social and cultural significance of biodiversity is acknowledged by ESS6. ESS10 contains provisions pertaining to information disclosure and stakeholder engagement. As outlined in ESS1, the environmental and social assessment will take into account project-specific risks and consequences on cultural assets that are direct, indirect, and cumulative. The Borrower will ascertain the possible risks and effects of the project's proposed activities on cultural assets through the environmental and social assessment. Cultural heritage will not be impacted by the borrower. In the event that avoiding impacts is not an option, the borrower shall determine and carry out mitigation strategies in compliance with the hierarchy of mitigation to address impacts on cultural assets.

RELEVANCY WITH THIS PROJECT: During impacts' assessment study and through communities and stakeholders' consultations, no heritage site was identified to be within or near the proposed Sites.

3.5.3.9. ENVIRONMENTAL AND SOCIAL STANDARD 10: STAKEHOLDER ENGAGEMENT AND INFORMATION DISCLOSURE

This ESS acknowledges that open and honest communication between the borrower and project stakeholders is crucial to upholding best practices globally. Stakeholder acceptance may be increased, projects' environmental and social sustainability can be improved, and effective stakeholder involvement plays a key role in the successful planning and execution of projects.

Throughout the project life cycle, borrowers will interact with stakeholders. They will do so as early in the project development process as feasible and within a timeline that allows for fruitful stakeholder discussions on project design. The type, extent, and frequency of stakeholder involvement will be commensurate with the project's size, nature, possible risks, and effects. The borrowers will participate in fruitful dialogues with all parties involved. In addition to consulting with stakeholders in a way that is culturally acceptable and free from manipulation, interference, coercion, prejudice, and intimidation, borrowers will give them timely, relevant, clear, and accessible information.

RELEVANCY WITH THIS PROJECT: For the proposed Simplified Sewerage System, the SSS project developed a specialized Stakeholder participation Plan (SEP) that served as a roadmap for stakeholder participation in discussions. As stated in chapter 5 of this ESMP Report, the goal of the consultation was to hear stakeholders' opinions, remarks, and concerns about the existing and proposed simplified sewerage system.

3.6. INTERNATIONAL OBLIGATIONS AND TREATIES

The international obligation and treaties in which Tanzania is a part is explained below

Table 2 : International Obligations and Treaties

S/N	International Obligations and Treaties	Description
01	Working Environment (Air Pollution, Noise and Vibration) Convention (No. 148)	The convention establishes and states the criteria for determining the hazards of exposure to air pollution, noise and vibration in the working environment and specifies exposure limits based on these criteria.
02	The Convention on the Prevention of Marine Pollution by Dumping of Wastes	The convention promotes the effective control of all sources of marine pollution and takes

S/N	International Obligations and Treaties	Description
	and other Matter (also known as the 1972 London Convention)	practicable steps to prevent pollution of the sea by the dumping of wastes and other matters.
03	The 1991 Bamako Convention	It is a convention for African nations that prohibits the import of all hazardous and radioactive wastes into Africa and controls the transboundary movements of hazardous wastes within the continent, prohibiting all ocean and inland water dumping.
04	ILO Minimum Age Convention (C138), 1973.	The convention concerns with the minimum age for employment to ensure the abolition of child labour. In Tanzania, according to the Employment and Labour Relations Act, 2004, the minimum age for employment is 14 years, and they shall only be employed for light works which won't harm the child's health and development.

3.7. ADMINISTRATIVE FRAMEWORK

3.7.1. OVERALL MANAGEMENT RESPONSIBILITY

The Environmental Management Act (2004) provides a clear outline of Tanzania's institutional framework for environmental management. The act lists seven (7) entities, of which the Minister Responsible for the Environment is in general responsible for overseeing the management of all environmental affairs.

Part III, Section 13(1) of the EMA (2004) specifies that the environment minister will be in charge of all environmental matters overall and will be in charge of formulating the policy guidelines required for Tanzania's environment to be promoted, protected, and managed sustainably.

The legal institutions for environmental management in the country include;

- Minister responsible for Environment
- National Environmental Advisory Committee

- Department of Environment
- National Environment Management Council (NEMC)
- Sector Ministries
- Regional Secretariat
- Local Government Authorities (City, Municipal, District, Township, Ward, Village, sub-village “Kitongoji”)

3.7.2. MINISTER RESPONSIBLE FOR ENVIRONMENT

The Minister is in charge of all environmental issues, including establishing the policy guidelines required for Tanzania's environmental promotion, protection, and sustainable management. An EIA is approved by the Minister, who may also assign this authority to the DOE, Sector Ministries, or Local Government Authorities.

3.7.3. NATIONAL ENVIRONMENTAL ADVISORY COMMITTEE

The National Advisory Environmental Committee is composed of members with experience in various fields of environmental management in the public and private sector and in civil society. The committee advises the Minister on any matter related to environmental management.

3.7.4. DIVISION OF ENVIRONMENT

The Division of Environment (DoE), typically situated within the Vice-President's Office or a similar governmental structure, typically handles a range of functions related to environmental management and sustainability. Some common functions of such a division include:

- **Environmental Policy Development:** The DoE often plays a key role in formulating environmental policies and strategies at national or regional levels. This involves conducting research, gathering data, and consulting with stakeholders to develop policies that address environmental challenges such as climate change, pollution, and biodiversity loss
- **Regulatory Oversight:** The division may be responsible for implementing and enforcing environmental regulations and standards. This includes monitoring compliance with laws related to air and water quality, waste management, and environmental impact assessments for development projects.
- **Environmental Planning and Management:** The DoE typically engages in spatial planning and management activities to ensure sustainable use of natural resources. This can involve land use planning, watershed management, coastal zone management, and urban environmental planning to promote resilience and sustainability

- **Environmental Monitoring and Reporting:** Monitoring environmental indicators and reporting on trends and changes in environmental quality are crucial functions. The division may oversee monitoring programs for air and water quality, biodiversity, and ecosystem health to assess the effectiveness of policies and identify emerging issues.
- **Promotion of Environmental Education and Awareness:** Educating the public and raising awareness about environmental issues and sustainable practices is often a core function. This can include organizing campaigns, workshops, and educational programs to promote environmental stewardship and behavior change.
- **International and Regional Environmental Cooperation:** The division may engage in international and regional cooperation on environmental issues, including participating in negotiations, agreements, and partnerships aimed at addressing global environmental challenges.
- **Emergency Response and Environmental Risk Management:** The DoE may have responsibilities related to responding to environmental emergencies such as oil spills, natural disasters, or industrial accidents. This includes coordinating emergency response efforts and implementing measures to mitigate environmental risks.

3.7.5. NATIONAL ENVIRONMENT MANAGEMENT COUNCIL (NEMC)

The purpose and objectives of the National Environment Management Council (NEMC) typically include the following:

- **Environmental Protection and Conservation:** The primary goal of the NEMC is to protect and conserve the environment. This involves developing and implementing policies, regulations, and guidelines that ensure sustainable use of natural resources while minimizing environmental degradation.
- **Environmental Monitoring and Assessment:** The NEMC is responsible for monitoring and assessing environmental quality across various sectors such as air, water, soil, and biodiversity. This includes conducting studies, gathering data, and analyzing trends to understand environmental health and identify emerging issues.
- **Environmental Policy Development:** The council plays a key role in formulating national environmental policies and strategies. This involves collaborating with government agencies, stakeholders, and the public to develop frameworks that address environmental challenges and promote sustainable development.
- **Regulatory Oversight and Compliance:** NEMC oversees the implementation and enforcement of environmental laws, regulations, and standards. This includes conducting inspections, issuing permits, and ensuring that industries, businesses, and individuals comply with environmental requirements.

- **Environmental Education and Awareness:** Promoting environmental education and raising public awareness about environmental issues are integral objectives. This includes developing educational programs, conducting outreach activities, and fostering community engagement in environmental stewardship.
- **Capacity Building and Technical Assistance:** The NEMC may provide technical assistance and capacity-building programs to government agencies, local communities, and private sectors to enhance their ability to manage and mitigate environmental impacts effectively.
- **International and Regional Cooperation:** The council may engage in international and regional cooperation on environmental issues. This includes participating in conferences, collaborations, and agreements aimed at addressing global environmental challenges and promoting best practices.

Overall, the NEMC's purpose is to ensure sustainable development by safeguarding the environment, promoting responsible resource management, and fostering a culture of environmental responsibility among stakeholders and the general public.

3.7.6. SECTOR MINISTRIES

The environmental sections within sector ministries typically have several key functions and responsibilities related to integrating environmental considerations into sectoral policies, programs, and activities. Here are some common functions of environmental sections within sector ministries:

- **Policy Development and Integration:** Environmental sections collaborate with their respective sector ministries to develop policies that incorporate environmental considerations. This involves ensuring that sectoral plans and strategies align with national environmental goals and regulations.
- **Environmental Impact Assessment (EIA):** Environmental sections oversee the integration of environmental impact assessments into sectoral projects and activities. They ensure that EIAs are conducted to evaluate potential environmental impacts and propose mitigation measures to minimize adverse effects.
- **Compliance and Enforcement:** Environmental sections monitor compliance with environmental laws, regulations, and standards within their sectors. They may conduct inspections, issue permits, and enforce penalties for non-compliance to ensure that sectoral activities adhere to environmental requirements.
- **Capacity Building and Training:** Environmental sections may provide training and capacity-building programs to sectoral staff on environmental issues, regulations, and best practices. This helps to enhance awareness and competency in integrating environmental considerations into sectoral decision-making processes.

- **Data Collection and Reporting:** Environmental sections collect and analyze environmental data relevant to their sectors. This includes monitoring environmental indicators, assessing trends, and reporting on sectoral contributions to national environmental objectives and targets.
- **Stakeholder Engagement:** Environmental sections engage with stakeholders, including industry representatives, NGOs, local communities, and the public, to gather input, address concerns, and promote collaboration on environmental issues within their sectors.
- **Research and Innovation:** Collaborating on research initiatives and promoting innovation in sustainable practices within sectoral activities is another function. This includes supporting research projects, piloting new technologies, and identifying opportunities for improving environmental performance.
- **Emergency Response and Contingency Planning:** Environmental sections may develop contingency plans and respond to environmental emergencies within their sectors. This involves coordinating emergency response efforts, implementing measures to mitigate environmental risks, and facilitating recovery efforts.

Overall, the functions of environmental sections within sector ministries are crucial for mainstreaming environmental sustainability across various sectors of governance and ensuring that sectoral development aligns with environmental conservation and protection goals.

3.7.7. REGIONAL SECRETARIAT

The Regional Secretariat, which is headed by the Regional Administrative Secretary under which there is a Regional Environmental Management Expert, who is responsible for the co-ordination of all environmental management programmes in their respective regions. The Regional Environmental Expert thus:

- Advises local authorities on matters relating to the implementation of and enforcement of environmental laws and regulations;
- Creates a link between the region and the DOE and the Director General of the NEMC

3.7.8. LOCAL GOVERNMENT AUTHORITIES

Under the Local Government Act of 1982 (Urban and District Authorities), Local Government Authorities include the City Councils, Municipal Councils, District Councils, Town Councils, Township, Kitongoji, Ward, and Village.

The Environmental Management Committee of each jurisdiction includes:

- Initiating inquiries and investigations regarding any allegation related to the environment and implementation of or violation of the provisions of the Environmental Management Act;
- Requesting any person to provide information or explanation about any matter related to the environment
- Resolving conflicts among individual persons, companies, agencies non-governmental organizations, government departments or institutions about their respective functions, duties, mandates, obligations or activities

3.7.9. GOVERNMENT EXECUTIVE AGENCIES-MWAUWASA

Contract procurement and administration for "simplified sewerage system, design, maintenance, emergency repairs, spot improvements, rehabilitation, and upgrading of the Simplified Systems" are within the responsibility of MWAUWASA. In order to lessen the adverse effects of road projects on the environment and social issues, MWAUWASA works in collaboration with the Division of Safety and Environment at every stage of the project cycle. Other functions of MWAUWASA includes:

- **Operation and Maintenance:** Once sanitation infrastructure is operational, MWAUWASA is responsible for its maintenance and upkeep. This includes routine inspections, repairs, and ensuring that facilities operate efficiently to prevent disruptions in sanitation services.
- **Monitoring and Evaluation:** MWAUWASA conducts monitoring and evaluation of sanitation projects to assess their effectiveness and impact. This involves tracking key performance indicators, evaluating service delivery, and identifying areas for improvement.
- **Community Engagement and Awareness:** MWAUWASA engages with local communities to raise awareness about sanitation issues, promote good hygiene practices, and encourage community involvement in sanitation initiatives. This can include conducting workshops, public outreach campaigns, and involving community members in project planning and implementation.
- **Capacity Building:** MWAUWASA may provide training and capacity-building programs to staff and stakeholders involved in sanitation projects. This helps to enhance technical skills, promote best practices in sanitation management, and strengthen institutional capacity for sustainable sanitation service delivery.
- **Financial Management:** MWAUWASA manages financial resources allocated to sanitation projects, including budgeting, financial planning, and ensuring cost-effective project implementation. This involves securing funding from government sources, donors, and other financing mechanisms to support sanitation infrastructure development and maintenance.

4. ENVIRONMENTAL AND SOCIAL BASELINE

4.1. INTRODUCTION

This section presents an overview of the existing environmental and socio-economic conditions of the proposed project areas. The baseline information was collected from primary as well as secondary data sources. Primary information was collected through field surveys, focussed group discussions and consultations while secondary information was obtained from published journals, books, authorised websites and government reports.

4.1.1. DIRECT AREA OF INFLUENCE

In the context of this report, the Direct Area of Influence includes the proposed SSS footprint as well as the receiving environment surrounding the project likely to be affected by the subproject activities during construction, operation, and decommissioning phases within a radius of 100m. This also includes areas that will be impacted by the construction of the Simplified Sewerage System, health and safety impacts (including disturbance from noise and dust during construction), and construction camps and in-migration of job opportunists into the local area.

4.1.2. INDIRECT AREA OF INFLUENCE

The Indirect Area of Influence includes areas within Nyamagana and Ilemela Municipality which may be affected by the proposed SSS Project.

4.2. ADMINISTRATIVE AND DEMOGRAPHIC PROFILE OF THE PROJECT AREAS

4.2.1. ADMINISTRATIVE SET UP

The project areas consist of two Councils (Mwanza City (Nyamagana) and Ilemela Municipalities) which are controlled and managed by the Councillors under the leadership of Lord Mayor. However, the Municipal Executive Directors who are assisted by heads of departments and sections execute the day-to-day administration of the district councils. At the Mtaa levels there are Mtaa Executive Officers, at Ward level there are Ward Executive Officers who are under the Municipal Executive Directors.

These Municipal Executive Directors offices consists of 12 departments: Engineer of Works, Fire and Rescue; Land Urban Planning and Environment and Natural Resources, Economic and Planning, Statistics and Monitoring; Finance and Trade; Community Development; Health and Social Welfare;

Human Resources and Administration; Agriculture and Cooperative, Livestock and Fisheries; Primary Education and Culture; Secondary Education.

Mwanza City Nyamagana council the selected project areas that will be beneficiaries of the Simplified Sewer System (SSS) are Kabuhoro, Isamilo, Mabatini, Ustawi, Igogo and Bugarika.

Ilemela Municipal council the selected project areas that will be beneficiaries of the Simplified Sewer System (SSS) are Ibungilo, Pasiansi, Kitangiri, Kilimahewa.

4.2.2. ADMINISTRATIVE AND DEMOGRAPHIC PROFILE

The table below indicates population data distribution based on the year 2022 census of selected wards in project areas of both Mwanza City and Ilemela Municipalities.

Table 3: 2022 Census Population in the selected Wards of the project areas

S/N	Districts	Wards	Project Areas	Population			Sex Ratio	Number of HH	Average HH size
				Total	Male	Female			
1	Nyamagana	Igogo	Igogo and Bugarika	25,515	12,549	12,966	97	7,744	3.3
		Isamilo	Isamilo	27,881	13,601	14,280	95	7,593	3.7
		Mabatini	Mabatini and Ustawi	24,485	11,804	12,654	93	7,069	3.5
		Kirumba	Kabuhoro	32,364	15,693	16,671	94	8,688	3.7
2	Ilemela	Kilimahewa	Nyamanoro	24,624	11,751	12,873	91	7,357	3.3
		Kitangiri	Kitangiri	23,642	11,172	12,470	90	6,547	3.6
		Pasiansi	Pasiansi and Ibungilo	16,274	7,862	8,412	93	4,262	3.8
Total				174,785	84,432	90,326	653	49,260	24.9

Source: NBS 2022

4.3. BIOPHYSICAL ENVIRONMENT

4.3.1. CLIMATIC CONDITIONS

4.3.1.1. RAINFALL

The areas experience bimodal rainfall seasons, i.e Long and short rains. The long rain season lasts between February and May with an annual average precipitation of 800mm; while the short rain season occurs between the months of October and December. The rains tend to fall in localised storms rather than generalised downpour and are therefore unevenly distributed in quite a small area.

4.3.1.2. TEMPERATURE

The average temperature ranges between 25°C to 28°C with average maximum temperatures occurring from September to December. The cool dry season occurs in June to August which experiences low temperatures which range between 20°C- 11°C.

4.3.1.3. HUMIDITY

Average relative humidity ranges between 50-70% and average monthly sun-hours ranges between 200-300 hours. Both including average temperature is considered as indicators of conducive weather.

4.3.1.4. WIND

Based on a database of Freshwater Eco-regions of the World, the wind speed is generally low but increases to about 15 m/s in the dry season. The dominant wind direction for the region is from WNW according to windfinder.com. WNW cardinal directions sit in between degrees of 281.25 to 303.75.

4.3.1.5. EARTHQUAKE

Historically, seismicity in the East African Rift is mainly concentrated along the branches of the rift system (i.e., at the edges of the Victoria microplate, and along the main rift running through Ethiopia in the north, and Malawi and Mozambique in the south). Over the preceding century, only one other earthquake has been recorded within 100 km of the September 10, 2016 earthquake – a M 4.3 event in Lake Victoria in December 2013.

Tanzania's largest historic earthquake over this time period was a M 7.2 event in July 1919, near Lake Tanganyika in the west of the country. A M 6.8 earthquake near the centre of Lake Tanganyika in December 2005 resulted in half a dozen or more fatalities. At the time of writing (10 hours after the earthquake), the September 10, 2016 earthquake has been reported to have caused over a dozen fatalities, and 200 or more injuries. Mwanza region is in Zone 1 with risk level of weak or not frequent and ground acceleration factor of 0.025.

4.3.1.6. TOPOGRAPHY

Nyamagana and Ilmela Municipalities are covered by granites and granodiorites, and have a gently undulating level topography with isolated hill masses and rock inselbergs. Soil in Mwanza City in general can be classified into three major groups namely:

- Sandy soils derived from granite
- Red loams derived from limestone
- Black clay soils

4.3.2. DRAINAGE

Major water bodies surrounding Mwanza City and Ilemela Municipal are related to Lake Victoria and all the rivers that run through the city flow into the lake. There are four rivers in Mwanza City flowing into the lake, namely Mirongo, Nyaguganwa, Ndote and Nyashishi. The main river that runs through the city centre is Mirongo River. Nyashishi River at the southern part of the planning area is forming Luchebele wetland before flowing into Lake Victoria.

4.3.3. GEOLOGY

Precambrian rocks occupy about 80% of the total land area of the Mwanza. The Precambrian rocks, mainly the plutonic rocks such as granite and granodiorite are commonly exposed in the area.

Biological Environment.

4.3.4. BIOLOGICAL ENVIRONMENT

4.3.4.1. FLORA AND FAUNA

Being in the townhood, the project sites have no either non-exotic plants or animals. There are no flora species of conservation significance identified within the subproject sites. Adjacent sites are covered by buildings and other commercial facilities. Few trees, grasses and shrubs were observed along the Ward roads, it is a settlement area and lacks floral diversity. The scarce vegetation cover indicates a poor habitat value. Therefore, animal diversity throughout the project area is low.

4.4. SOCIAL ECONOMIC ACTIVITIES IN THE PROJECT AREAS

4.4.1. SOCIAL ECONOMIC

The average Tanzania GDP at current prices reached around 64.4 billion U.S. dollars based on a 2020 survey. Dar es Salaam was the region in Tanzania with the highest Gross Domestic Product (GDP), which amounted to roughly 25.3 trillion Tanzanian shillings (TZS), approximately 10.9 billion U.S. dollars. To follow, the Mwanza region recorded a GDP at about 11 trillion TZS (4.7 billion U.S. dollars). However, currently there is no data on GDP distribution down to the Municipal and District level which includes Nyamagana and Ilemela Municipalities.

The past record of Economic Survey Report 2011, shows that Mwanza region's (Nyamagana and Ilemela together with other districts cumulatively share of the national GDP for the year 2016 was only 9.3 percent equivalent to TShs. 8,452,013 million while per capita income of regional residents was estimated to be TShs. 2,004,353, (equivalent to US\$ 911.1 at a rate of TZS 2,200 per USD). Most of the employed people work in the service sector, while those who are self-employed are involved in petty trade, tilling land, micro-fishing activities etc. The current figure of employment in the City (Employed and Self-employed) stands at about 50%. The average per capita income is about US\$21

per month. The regional GDP was TShs. 4,016,270 million in 2010 and Tshs. 6,654,600 million in 2013.

The 2012 Population and Housing Census Report shows that Mwanza City Council, like its neighbouring council of Illemela Municipal, has vast economic opportunities due to the diversification of industries performed in the city. Commercial food crops and forestry was reported to be the main source of income in the council engaging 13.9 percent of residents. It was followed by the selling of raw food or uncooked food (13.6 percent), trade and commerce (12.9 percent of the population), manufacturing (11.7 percent), construction (7.2 percent), services for food hotels and lodges (5.5 percent), domestic services (5.0 percent), haulage and storages (4.7 percent), Administration and security services (3.3 percent), education services (3.1 percent) and fishing, hunting, livestock and other related (2.5 percent).

The 2012 population census shows that service workers, shop and stall sales workers were the main occupation in Mwanza city, employing 21.9 percent of residents aged 10 years and above. It was followed by crafts and related workers (16.1 percent), elementary occupation (12.6 percent), farmers (12.5 percent), street vendors and related workers (9.2 percent), technicians and associate professionals (5.7 percent). Plant machine operators and assemblers including drivers employed 4.7 percent of Mwanza residents, professionals (4 percent) and small business managers (3.6 percent) while other common occupations such as fishermen, livestock keepers, legislators, administrators and managers, and clerks have employed less than 2 percent each.

4.4.2. INDUSTRIAL AND COMMERCIAL ACTIVITIES

Industries all over the Mwanza region are known to play a major role in socio-economic development. This is also the case in Mwanza city and Illemela Municipal councils, where industries, mostly small scale, contribute significantly to jobs creation, income generation and stimulation of growth in urban areas of the city council. At the end of 2015 there were 231 small scale industries employing 1,180 staff. More than thirty percent (i.e 32.9 percent) of the 76 industries were involved with carpentry.

Small scale industries involved with welding counted to have 76 industries (32.9 percent), service industries 32 (13.9 percent). Majority of staff (430 or 36.4 percent of the total staff) were working in the service industry - garage while very few of them (8 staff, 0.7 percent) were working in the freshwater industry. Trade is flourishing economic activity with employment of several people. The project areas residents engage in various retail and wholesale trade within the formal and informal sector. The sector is becoming popular to most of the residents; almost everybody has some sort of small retail shop. There are also bars, restaurants, lodgings, milling machines, Bakeries abattoirs and open markets.

4.4.3. AGRICULTURE

Mwanza City Council is an urban area with a history of vast and intensive urban farming. However, a variety of people, including businesspeople, government employees, and the poorest slum residents, are urban farmers. Tanzanian urban areas are typically not built to support large-scale farming or livestock rearing. It is typical to zone out property inside metropolitan areas to make room for residential neighbourhoods, commercial buildings, industrial sites, building sites for roads and railroads, recreational activities, etc. In addition, the continuation of peasant culture has played a role in the establishment and survival of urban agriculture in Tanzania. This is a result of Tanzania's contemporary urban population, which includes the Mwanza City Council, still having traces of their rural heritage. The peasant culture's continued to exist.

4.5. SOCIAL SERVICES

4.5.1. HEALTH FACILITIES IN NYAMAGANA MUNICIPAL

Nyamagana Municipal consists of 2 public hospitals, 2 public health centres, and 14 public dispensaries. There is only 1 dispensary located in the project area in Igogo ward. The rest are located outside the project areas.

4.5.2. HEALTH FACILITIES IN ILEMELA MUNICIPAL

Ilemela Municipal consists of 19 Hospitals, 4 Health Centres, 11 Dispensaries and 37 Clinics. In the project areas Kabuhoro consist of 2 clinics, Kitangiri 1 health centre, 1 Dispensary and 2 clinics. Kilimahewa consists of 1 Dispensary and 1 Clinic.

4.5.3. TOP TEN DISEASE AT NYAMAGANA MUNICIPAL COUNCIL OUTPATIENTS 2023

Rank	Diseases	Diagnosed clients	Percentage (out of all diagnoses)
1	Malaria	72,367	54.2
2	Intestine worms	18,264	13.7
3	ARI	13,944	10.4
4	Skin Infections	6,024	10.4
5	Other diagnosis	5,975	4.5
6	Pneumonia	5,703	4.3
7	Diarrhoea	4,584	3.4
8	Eye condition	3,592	4.3
9	Emergency Surgical	2,016	1.5
10	Anamea	1,161	0.9

Source: Mwanza City Director's Office, City Medical Office Mwanza City Council 2023

4.5.4. TOP TEN MOST COMMONLY REPORTED CAUSES OF MORBIDITY IN NYAMAGANA MUNICIPAL COUNCIL INPATIENTS 2023

RANK	DISEASES	NUMBER OF CASES	PERCENTAGE (OUT OF ALL DIAGNOSES)
1	Other Diagnosis	5,305	34.7
2	Uncomplicated Malaria	3,421	22.5
3	Severe Malaria	2,757	18.0
4	Pneumonia	1,261	8.2
5	Anaemia	1,160	7.6
6	Diarrhoea	881	5.8
7	TB	320	2.1
8	Burn	133	0.9
9	Poisons	32	0.2
10	ARI	21	0.1

4.5.5. TOP TEN DISEASES AT ILEMELA MUNICIPAL COUNCIL

TABLE 4 Top Ten OPD 2023 Ilemela Municipal Council

Rank	OPD	Diagnosed clients	Percentage (out of all diagnoses)
1	Upper Respiratory Infections	77,028	21.97
2	Urinary Tract Infections	62,053	17.7
3	Intestinal Worms	20,220	5.77
4	Other Non-Infectious GIT Diseases	18,064	5.15
5	Malaria (BS +Ve, mRDT +Ve)	17,117	4.88
6	Diarrhoea With No Dehydration	13,078	3.73
7	Peptic Ulcers	11,522	3.29
8	Hypertension	10,867	3.1
9	Pneumonia, Severe & Non-Severe	9,659	2.76
10	Anaemia, Severe & Mild/Moderate	9,395	2.68

Source: Municipal Health Officer 2023

Table 5: Top Ten Inpatients 2023 Illemela Municipal Council

Rank	OPD	Diagnosed clients	Percentage (out of all diagnoses)
1	Malaria (BS +Ve, mRDT +Ve)	2,216	25.05
2	Urinary Tract Infections	1,250	14.13
3	Pneumonia, Severe & Non-Severe	1,029	11.63
4	Anaemia, Severe & Mild/Moderate	740	8.37
5	Gynaecological Diseases	552	6.24
6	Acute Diarrhoea (<14 Days)	535	6.05
7	Peptic Ulcers	453	5.12
8	Hypertension	418	4.73
9	Upper Respiratory Infections	338	3.82
10	Typhoid	194	2.19

Source: Municipal Medical Officer 2023

4.5.6. MORTALITY RATE

The Infants' mortality rate deaths for 2023 were 22/1000 and under 5 mortality rates were 28/1000 under five deaths.

4.5.7. WATER RELATED DISEASES

In the year 2023 there were 8600 reported water borne cases among 334880 OPD attendees which is equal to 2.6% out of OPD attendance. Malnutrition rate was 2.9% for the year 2023.

4.5.8. EDUCATION FACILITIES IN MWANZA CITY

Mwanza City consists of 20 pre-primary and primary schools in the selected SSS project areas. All the schools in the project areas are connected to water supply from MWAUWASA. Out of 20 primary schools only 7 schools have a hand washing basin facility. 17 primary schools have flush toilets and 3 do have pit latrines as shown on table below:

Table 6 Primary schools in the selected SSS Project areas in Mwanza City

S/N	Project Area	Name Of Schools	Boarding/Day	Total Number of pupils			Teachers and staffs			Water source	Sanitation facilities							Total deficit	WASH PROGRAMS
				Boys	Girls	Total	Male	Female	Total		Hand washing basin [Available /none]	Type of latrine [Flash/ Pit]	Boys	Girls	Total	Deficit Boys	Deficit Girls		Available/None
1	Isamilo	Lake B	Day	231	222	453	6	11	17	Connected	None	Flash	4	5	9	5	6	11	Existing
2			Day	253	264	517	4	14	18	Connected	None	Flash	5	8	13	5	5	10	Existing
3		Maendeleo	Day	268	232	500	4	12	16	Connected	None	Flash	5	6	11	5	7	12	Existing
4		Kileleni	Day	802	826	1628	12	11	23	Connected	Available	Flash	6	8	14	42	33	74	Existing
5		Nyakabungo	Day	254	250	504	5	9	14	Connected	Available	Flash	1	2	3	12	8	20	Existing
6		Nyakabungo B	Day	195	210	405	5	11	16	Connected	Available	Flash	1	1	2	8	10	18	Existing
7		Nyakabungo C	Day	187	190	377	6	13	19	Connected	Available	Flash	1	1	2	8	10	18	Existing
8		Makongoro	Day	94	93	187	4	10	14	Connected	None	Flash	2	3	5	2	2	4	Existing
9	Mabatini	Pamba B	Day	707	727	1434	9	19	28	Connected	None	flash	6	6	12	19	23	42	None
10		Pamba C	Day	373	410	783	7	10	17	Connected	None	flash	5	5	10	14	12	26	None
11		Mabatini	Day	271	322	593	7	13	20	Connected	None	flash	5	5	10	6	12	18	None

Mabatini

S/N	Project Area	Name Of Schools	Boarding/Day	Total Number of pupils			Teachers and staffs			Water source	Sanitation facilities							Total deficit	WASH PROGRAMS
				Boys	Girls	Total	Male	Female	Total		Hand washing basin [Available /none]	Type of latrine [Flash/ Pit]	Boys	Girls	Total	Deficit Boys	Deficit Girls		Available/None
12		Mabatini B	Day	451	649	1100	6	19	25	Connected	None	Flash	8	9	17	23	10	33	None
13		Pamba	Day	346	410	756	3	13	16	Connected	None	Flash	8	8	16	8	8	16	None
14	Bugarika	Bugarika	Day	268	302	570	5	19	24	Connected	Available	Flash	3	5	8	7	15	22	Existing
15	Igogo	Azimio	Day	435	501	936	4	18	22	Connected	None	Flash	6	7	13	11	18	29	Existing
16		Azimio B	Day	314	272	586	4	16	20	Connected	Available	Flash	13	11	24	9	7	16	Existing
17		Azimio C	Day	349	349	698	3	14	17	Connected	None	Pit	4	4	8	9	9	18	Existing
18		Igogo	Day	305	308	613	8	7	15	Connected	None	Flash	3	5	8	8	11	19	Existing
19		Igogo B	Day	323	327	650	8	8	16	Connected	None	Pit	10	10	20	4	6	10	Existing
20		Malulu	Day	289	316	605	7	8	15	Connected	Available	FLASH & Pit	20	20	40	-	-	-	Existing

4.5.9. EDUCATION FACILITIES IN ILEMELA MUNICIPAL

In Ilemela Municipal consists of 26 pre-primary and primary schools in the selected SSS project areas. All the schools are connected to water supply from MWAUWASA. Out of 26 primary schools only 18 schools have a hand washing basin facility. 23 primary schools have flush toilets and 3 do have pit latrines as shown in the table below:

Table 7: Status of Primary schools in the selected SSS Project areas in Ilemela

S/ N	Project Area	Name of Schools	Day	NUMBER OF PUPILS			Teachers/Staffs			Water sources	Sanitation facilities					
				Boys	Girls	Total	Male	Female	Total		Hand washing basin [Available/ None]	Type of Latrine [Flash/Pit]	Boys	Girls	Total	Deficit boys
1	Ibungilo	Hekima	Day	404	356	760	1	16	17	Connected	Available	Flash	8	9	17	8
2		Ibungilo		424	399	823	4	14	18	Connected	None	Pit	5	6	11	11
3		Kiloleli	Day	361	375	736	3	17	20	Connected	Available	Flash	3	5	8	11
4		Bondeni		286	285	571	5	9	14	Connected	Available	Flash	6	10	16	4
5		Kilimahewa	Day	431	365	796	2	15	17	Connected	Available	Flash	4	5	9	18
6		Nyamanoro		468	535	1003	3	16	19	Connected	Available	Pit	13	13	26	6
7	Pasiansi	Bwiru	Day	287	296	583	6	12	18	Connected	Available	Flash	6	6	12	5
8		Isenga C		373	391	764	2	13	15	Connected	Available	Flash	7	13	20	6
9		Isenga D	Day	481	458	939	2	17	19	Connected	Available	Flash	8	8	16	7
10		Isenga		458	551	1009	4	14	18	Connected	Available	Flash	5	10	15	16
11		Jamhuri	Day	291	321	612	3	13	16	Connected	Available	Flash	8	8	16	4

S/ N	Project Area	Name of Schools	Day	NUMBER OF PUPILS			Teachers/Staffs			Water sources	Sanitation facilities					
				Boys	Girls	Total	Male	Female	Total		Hand washing basin [Available/ None]	Type of Latrine [Flash/Pit]	Boys	Girls	Total	Deficit boys
12		Mnarani		407	411	818	3	14	17	Connected	Available	Pit	4	6	10	11
13	Kirumba	Bugungumuki	Day	598	722	1320	6	11	17	Connected	None	Flash	12	14	26	11
14		Kirumba		588	620	1208	4	20	24	Connected	None	Flash	8	11	19	16
15		Songambebe	Day	415	497	912	4	17	21	Connected	None	Flash	5	5	10	11
16		Tumaini		574	572	1146	8	11	19	Connected	Available	Flash	12	18	30	10
17		Ziwani	Day	445	425	870	3	14	17	Connected	Available	Flash	7	11	18	10
18	Kitangiri	Kitangiri B		363	395	758	3	12	15	Connected	None	Flash	6	9	15	9
19		Kitangiri C	Day	485	537	1022	6	8	14	Connected	Available	Flash	5	11	16	13
20		Kitangiri		400	376	776	5	12	17	Connected	None	Flash	10	10	20	4
21		Mihama	Day	373	417	790	4	9	13	Connected	Available	Flash	3	5	8	12
22	Nyamanoro	Ghana		331	403	734	7	7	14	Connected	Available	Flash	4	6	10	11
23		Karume	Day	434	391	825	4	9	13	Connected	None	Flash	3	4	7	14
24		Mjimwema		621	632	1253	2	11	13	Connected	Available	Flash	3	5	8	26
25		Mkudi	Day	575	620	1195	4	8	12	Connected	Available	Flash	10	10	20	23
26		Mwenge		581	629	1210	6	18	24	Connected	Available	Flash	3	5	8	23

Source: Municipal Council Education Officer (Primary), Ilemela 2024

4.6. WASTE AND SANITATION STATUS

Waste management services are divided into two major categories i.e solid waste management and liquid waste management services. Mwanza city council has the responsibility of managing solid waste and on-site liquid waste. The Mwanza urban water and sanitation Authority deals with sewerage services.

Mwanza City Council has a moderate standard of service in respect to collection and disposal of solid waste and liquid waste. Crude dumping method of waste disposal is more controlled in the Town thus reducing environmental and health hazards like unpleasant Odour, breeding sites of vermin and contamination of surface and groundwater.

In the pilot Simplified Sewer System Project (pilot phase) a number of 415 households were connected to the system which comprise of 2,490 beneficiaries and the pipeline has a length of 7.06kms as shown on the table below:

Table 8: Simplified Sewer System Project (Pilot Phase)

S/N	Area	Number of households connected	Length of pipeline (km)
1	Kilimahewa	117	1.7
2	Mabatini	178	2.96
3	Igogo (Kwimba)	120	2.4

In the scaled up simplified sewer system Project (Phase II) a number of 1,073 households were connected to the system which comprise of 6,438 beneficiaries and the pipeline has a length of 17.81km as shown on the table below:

Table 9: Scale Up Simplified Sewer System Project in the hills places Phase II

S/N	Area	Number of households connected	Length of pipeline (km)
1	Kabuhoro	194	3.17
2	Isamilo	206	3.93
3	Ibungilo	280	4.94
4	Igogo-Sahara	393	5.77

4.7. SOCIAL INFRASTRUCTURE IN THE PROJECT AREAS

4.7.1. ROADS AND RAILWAYS

Road transport is the most used mode of transport in Mwanza city and Illemela.

4.7.2. AIR AND WATER TRANSPORT

Marine Transport and the existing airport is located in Illemela District.

4.7.3. ENERGY AND POWER SUPPLY

Both Municipality - Electricity is the power source for industries, commercial premises, service institutions and for domestic premises. The region is connected to the National Grid by TANESCO. All district headquarters are served by this grid.

4.7.4. TOURISM

Mwanza is one of the unique destinations in Tanzania that has yet to be discovered by many. Main tourist attractions in Mwanza are the Bujora Sukuma Museum and Sanane Island. There are a few high-class hotels such as JB Delamonte, Gold-Crest, Tilapia, Malaika and New Mwanza Hotel. There are also myriad other mediums/small size hotels. Day trips can be made to the famous Serengeti National Park and other nature reserves.

4.7.5. COMMUNICATIONS

Telecommunications

All the Wards in the Project area are using the Tanzania Telecommunication Company Limited (TTCL) as the inland-based telephone and mobile provider for the Region. In addition, there are email services and several cellular telephone services provided by a few private and semi-private telecommunication companies. These include Vodacom, Airtel, Tigo, and Zantel. There are adequate telephone services in all urban centres in the Region and in some parts of the rural areas.

News and Mass Media

All these news and media services are available in the project areas where there are eleven Radio Stations. These are; - TBC1 FM, Radio Free Africa – RFA, Radio Maria, Living Water radio Kwa Neema radio and Radio One. Others include TBC Taifa, KISS FM, and Clouds FM, Capital radio, Afya radio, Mwanza City FM radio, Sengerema radio and East Africa radio. Television stations can be accessed via satellites by using antennas and boosters. Some of the local stations which can be accessed include TBC1, ITV, Star TV, Channel 10, Channel 5 and EATV, depending on the type of the

antenna used. Other international worldwide stations such as CNN, BBC, CFI, Al Jazeera, and others may be accessed.

4.8. GENDER ISSUES

Water collection was found to be the responsibility of women and children (particularly girls) and this is attributed to inherited traditions and customs, which are passed from generation to generation. It was found out that the cost incurred for obtaining water for home consumption is for both females and males and females for female headed households.

5. STAKEHOLDERS CONSULTATION AND PUBLIC INVOLVEMENT

5.1. INTRODUCTION

In essence, stakeholder consultation or public participation in environmental decision-making is a successful method of communication between the project team and the local population. Informing the locals about the development and assisting them in comprehending and accepting the impending developmental activity in the area is the goal of the stakeholder consultation process. An open discussion with the stakeholders minimizes the perceived potential environmental impacts. In return, public feedback becomes a useful input in improving the project design and environmental management.

In order to determine the best way to involve the public, the consultant first identified the stakeholders and analyzed their roles. Then, the consultant considered using public consultation meetings, notices and advertisements, surveys, interviews, and questionnaires, workshops, and/or advisory groups. To determine the greatest possibilities for public engagement, each technique was evaluated in comparison to the others. Ultimately, the majority of stakeholders in the project areas determined that public meetings and one-on-one consultation were the preferred solutions.

5.2. PURPOSE AND OBJECTIVE

In the context of a Simplified Sewerage System project, public participation and stakeholder engagement play crucial roles in ensuring the project's success and effectiveness. The specific purposes and objectives of the Stakeholder Engagement Processes in this project are:

- **Understanding Community Needs and Concerns:** Public participation allows residents and community members to voice their needs, concerns, and preferences related to the project. This input helps project planners and decision-makers understand the local context, including environmental, social, and economic considerations.
- **Improving Project Design and Implementation:** Stakeholder engagement enables the Project Team to gather valuable information that can improve the design, construction, and implementation phases of the project. Local knowledge about terrain, water tables, and other environmental factors can be crucial in optimizing the project's infrastructure and minimizing environmental impacts.
- **Enhancing Project Acceptance and Support:** Involving the public and stakeholders from the beginning fosters a sense of ownership and involvement in the project. When communities

feel heard and respected, they are more likely to support the project's goals and outcomes, reducing potential resistance or opposition.

- **Ensuring Environmental and Social Sustainability:** Public participation helps identify potential environmental impacts and social risks associated with the sewerage project. By engaging stakeholders, the project team can implement mitigation measures and ensure that the project aligns with environmental regulations and community values.
- **Education and Awareness:** Public participation serves as an opportunity to educate stakeholders about the importance of the project, its benefits, and the roles they can play in its success. It can also help raise awareness about environmental conservation and sustainable development practice.

Overall, public participation and stakeholder engagement in a project are essential for ensuring its effectiveness, sustainability, and acceptance by the community. By involving those who will be affected by the project, decision-makers can make more informed choices and enhance the overall quality of the project outcomes.

5.3. STAKEHOLDER IDENTIFICATION AND CONSULTATION

In order for a project to be successfully planned and managed, stakeholders are essential. Those who have the potential to impact or be impacted by the project are considered stakeholders. It may comprise members of the planning and regulatory agencies, and people with interests in the project in addition to the communities it affects. To guarantee that all of the aspirations and concerns of the stakeholders are taken into account during the decision-making process for the fair and sustainable development of the Simplified Sewerage System in Ilemela and Nyamagana, stakeholder identification and consultation are crucial. The following describes the stakeholder engagement methodology used.

- **Identification of the stakeholders:** This involves the process of identifying the people, groups, or organizations that could impact or be impacted by a decision, an activity, or an outcome of the project. It also involves analysing and documenting relevant information regarding their interests, involvement, interdependencies, influence, and their potential impacts on project success. The stakeholders identified include those who are likely to be affected by the project (Project Affected Persons), authorities and interested or concerned parties. The list of stakeholders identified for this project is as indicated in Table below

Table 10 **Identified Stakeholders in the project area.**

Stakeholder Group	Members
Ministries	<ul style="list-style-type: none">• Vice-President's Office• Ministry of Water

Stakeholder Group	Members
	<ul style="list-style-type: none"> Mwanza Water Supply and Sewerage Authority
Mwanza Regional Office	Regional Secretariat
Local Government	Ilemela Municipal Mwanza City Council
Institutions	<ul style="list-style-type: none"> National Environment Management Council Lake Victoria Basin Water Office (LVBWO) Lake Victoria Environmental Management Program (LVEMP) Lake Victoria Basin Commission (LVBC)
Financer	<ul style="list-style-type: none"> EIB EFD
Interested parties	<ul style="list-style-type: none"> NGOs CBOs Individuals Civil Society
Local Communities	Local communities in the respective project areas including Ibungilo, Pasiansi, Kabuhoro, Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo, Bugarika

- **Plan Stakeholder Management:** This is the process of developing appropriate management strategies to effectively engage stakeholders throughout the project life cycle, based on the analysis of their needs, interests, and potential impacts on project success. For this project a stakeholder engagement plan (SEP) report was prepared as the stand alone report for guidance of the Stakeholder Engagement.
- **Manage Stakeholder Engagement:** The process involves communicating and working with the stakeholders to meet their needs / expectations, address issues as they occur, and foster

appropriate stakeholder engagement in project activities throughout the project life cycle. For this project, the stakeholder engagement approach report contained the mechanism and approach of constant communicating with the stakeholder for sustainability of the project.

- **Control Stakeholder Engagement:** The process is of monitoring the overall project stakeholder relationships and adjusting strategies and plans for engaging the stakeholders.

5.4. CONSULTATION PLAN

The Consultant team established the Consultation Plan for Public/Stakeholders' consultations so as to understand the different dimensions of their concerns, interests and advice pertaining to the project. The consultations Plan included personal interviews, one to one meeting, and focussed group discussions (FGDs), all of which will help in determining the issues of the participants and their appropriate possible solutions. The figure below shows the consultation established for this project.

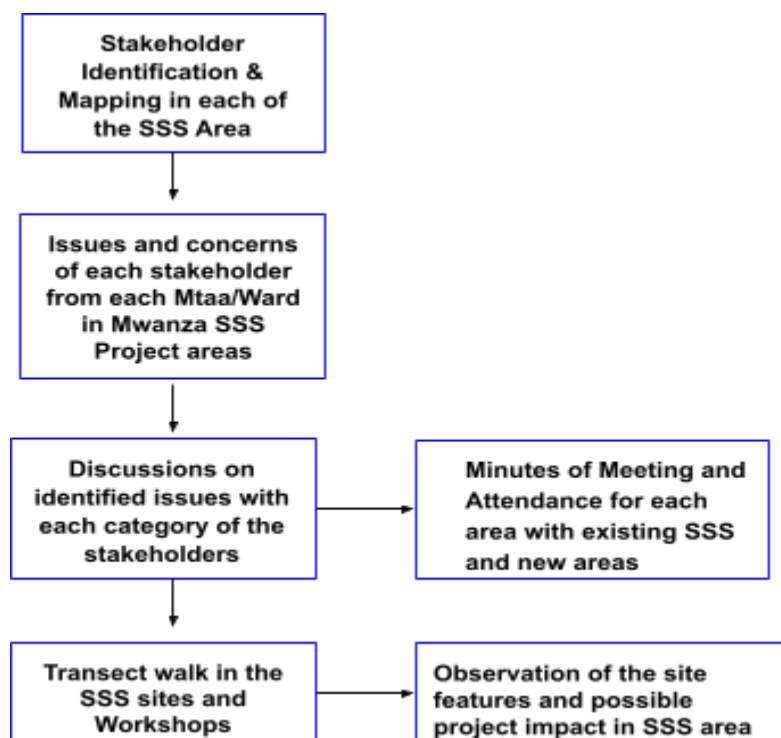


Figure 3: Consultation Plan

Increased ideas on the table, a variety of opinions about the simplified sewerage system, and a fair and just shared vision for the socioeconomic environment were all guaranteed by the stakeholder identification and consultation process.

According to the work scope, from May 22 to June 14, 2024, a number of one-on-one and public meetings were held in the project area to engage with the communities and government agencies. During the stakeholder consultation with wards and communities of Ibungilo, Pasiansi, Kabuhoro,

Kitangiri, Kilimahewa, Isamilo, Mabatini, Ustawi, Igogo, and Bugarika, MWAUWASA officials also collaborated with the consultant team to engage with the community.

5.5. PUBLIC CONSULTATION AND ENGAGEMENT

5.5.1. PUBLIC MEETINGS

Communities along the proposed project needed to be appropriately informed about what is planned in their area to the larger groups, and they later needed to be divided into groups for in-depth interviews based upon their characteristics. This was accomplished through MEOs, WEOs, and meetings later on in the public participation process.

The community consultations were conducted with the intention to;

- Provide clear and accurate information about the Project to the communities
- Inform communities about the Project
- Gathering from the population and their representatives about main environmental and social concerns and perceptions regarding the SSS Project.
- Gather opinions and suggestions directly from the communities on their preferred mitigation measures
- Gather opinions and concerns of the various minority groups of women, children, disabled and youth on the proposed Project.



Figure 4: Lifting hand as the sign of project acceptance in one of the project areas.

5.6. CONCERNS/ ISSUES RAISED BY THE STAKEHOLDERS

The community was given a presentation about the SSS project and what was planned for each ward. Equal emphasis was placed on the significance of the Simplified Sewerage System as well as its advantages for both communities and individuals. The project's benefits and drawbacks, as well as the appropriate mitigating actions, were all thoroughly explained. Lastly, the communities had a chance to voice their ideas, concerns, observations, and questions at the conclusion of the meeting. The following is a summary of the comments, perspectives, questions, warnings, and views that were raised by each individual. The third column below provides a summary of the answers provided by the ESIA consultants and the MWAUWASA representative to each of the issues addressed.

Table 11: Concerns/Issues raised by the Stakeholders.

Institution	Issue/Concern raised	Response
Ilemela Municipal Council And Nyamagana Municipal	Challenges in Schools: This year they had a very high number of school enrolment with very few toilet facilities in those schools which caused 250 pupils using one pit latrine. Against the ratio of Boys 25:1 and Girls 20:1	Noted
	Pre-primary school pupils (small pupils) are mixed with the older pupils and share the same toilets which is a risk for the small pupils. They are requesting the toilets for the small pupils.	Noted
	The flush toilets consume a lot of water and make schools pay a lot of money for the water bills. They are requesting the boreholes for schools	Noted
	Most of the schools' compounds are not fenced and thieves encroach in freely and steal the toilets and plumbing equipment.	Noted
	The project area is squatter therefore it will create a lot of challenges during the construction period. How are you going to do it?	SSS is the best sanitation solution for squatter areas like those areas along the hills. The construction of the SSS

Institution	Issue/Concern raised	Response
		does not require a big space for working, pipes are PVC and small size (6" and 4") which will be buried between 1-1.5 ft below the ground level. Construction will be done using available space so the PVC pipes will be laid down in same narrow streets without disturbing movement of people or demolishing people's property consequently resettlement
	Will implementation of the project require any kind of compensation to project beneficiaries?	This project does not require demolition of any structure or taking someone's land for putting in place SSS infrastructure. Therefore, there will be no compensation of any kind because no compensation of any kind because no properties will be affected. Everyone's properties will remain as it is and will not be affected during implementation of the project
	Some households along the upper hills do not have toilets due to their topography and this has been the cause of cholera in the city. For those with crude toilets are desludging out during the rain's seasons and cause nuisances and create conflicts to the neighbourhoods	This is why the government is introducing the SSS in those areas

Institution	Issue/Concern raised	Response
	The Dispensary does not have enough toilet facilities and the market does not have toilets at all.	Some challenges are within local government interventions
	Technical problem: Some of the Simplified Sewerage system is left without maintenance after construction and gets blocked during rain seasons as excess sediments, rugs etc enter into the system and cause floods in the households.	Noted
	The responsible authority should create awareness to the community and capacity building to the extension officers on how to maintain the Simplified Sewerage system	Noted
	Stormwater is overloaded due to the rapid population growth in the city and it happens all the manholes are dilapidated due to lack of maintenance. The project to consider rehabilitation of the stormwater system as well.	Noted
	How much will it cost to be connected to the SSS	There is no connection fee during the beginning of the project. The project has taken care of the connection costs. But after the project the new connection will be charged with fees which will be decided by MWAUWASA
	During the design the MWAUWASA to lease with TANROADS and TARURA because most of the pipes will be crossing or constructed alongside the roads.	Noted

Institution	Issue/Concern raised	Response
	There is no return valve in some of SSS systems which cause the wastewater sometimes to return the influences back to the households and cause nuisances due to blockage.	Wire mesh is installed in the chambers to reduce the blockages
	Benefits: The SSS will reduce the prevalence of waterborne diseases. Water table is high which causes people to use a lot of money for desludging. One lorry trip of lorry is 150,000/-. The project of SSS will bring up modernization in those households without proper toilet facilities and raise the standards of living.	Noted
	Opinions: The SSS to have a program of sensitizing the extension officer, and local leaders of how to encourage the community to connect to the SSS. Also they should impose bylaws that each household must be connected to the SSS and explain its benefits. Local government authority should be involved from the project designing, construction and implementation in order the project of SSS to be sustainable	Noted
Community Meetings	Is this project about construction of the new toilet's facilities to communities?	No. The project is about constructing the simplified sewer system to those areas where they can not have proper pit latrines especially upper hills
	The existing chambers oozes during the rains seasons and cause filthy in the surroundings	Noted

Institution	Issue/Concern raised	Response
	Most schools do not have hand washing basins. Some do not have one due to shortage of water for washing	Noted
	Kitangiri Kati is hills and people have constructed houses up to the top of the hill where no car can reach the top. How this project will reach there to construct the SSS.	The contractor will know what to do by using the pathway to lay the pipes and refurbish the better walkways.
	Medical Research areas due to the hills people do not have toilets and are using the flying toilets or due to the rocky they are digging very shallow pit latrines after some time when they are full, they dislodge locally which is very dangerous to the surrounding and causes waterborne diseases and unhealthy situations in the surroundings	Noted
	Most households do not have clean and safe water, they are requesting the project to first provide water supply then considering the connection to the SSS	The project has a plan to do so. Since without running water, they can not use SSS
	They were wondering on how the pipes will cross to people who are residing crossed to the main road	This will be done by leasing the TANROADS
	Suggestions The project should start as soon as possible in order to avoid the incidence of cholera outbreak which claims life of people this year	Noted
	Concerns The SSS will increase the water bills.	Yes, with very little percentage as it will be arranged by the EWURA
	Will people who will be affected by the project be compensated?	Nobody will be affected by the project; they will use the existing pathways in their streets.

Institution	Issue/Concern raised	Response
	Due to the nature of some areas, there are some areas where the houses are constructed in the hills as well as the same to the septic tank, now will this project involve excavations of the stones to allow passage of those pipes?	The wastewater pipes will pass on top of the stones and then will be protected by concrete but if there is a need of excavating the project will excavate
	The project will have the benefit to them	Noted
	Does this project involve population projection in the area since most of the areas the project fails due to being overloaded.	The project involves projection of the population, the project will not fail for being overloaded since there is a lot of WSP in the treatment area
	They wanted to know if the government will cover all the project or additional cost will be incurred from them?	The government through MoW covers all the implementation costs of the project. During operation phase additional cost will be required from them since they will be the users
	Will the meter for unit reading of the waste water bill be different from the current water meter?	The meter will be the same but the unit of waste water will be included in the water bill.
	In case of waste water pipe leakage in the areas who should be contacted?	If any waste water leakage occurs in the area, they have to contact MWAUWASA
	Concerns The SSS will increase the water bills.	Yes, with very little percentage as it will be arranged by the EWURA
	The residents of Nyamanoro Kaskazini have no simplified sewerage system at all, they wish the priorities should be given to them during the start of the project as some of the areas in the ward have the simplified sewerage system.	This was noted

Institution	Issue/Concern raised	Response
	For the current users of the simplified sewerage system in the area have the problem of clogging of wastewater pipes, now they wanted to know what are plans in solving the problem of clogging of wastewater pipes.	The clogging of existing wastewater pipes in the area is caused by improper usage of the system as many users tend to discharge unwanted materials in the wastewater pipes. Education will be provided regarding the usage of this system to overcome the problem.
	Some of the residents at Ibungilo were told that the upcoming Simplified Sewerage System in the area will take into account those who missed it in the first campaign of SSS, now they wanted to know if they will be considered in this project?	This project will cover the entire area
	The users of the existing SSS in the areas are disposing of the waste in the SSS.	The community were given education on the usage of the SSS
	The existing SSS were constructed with the pipe of small diameter, they are advising now to increase the size of the pipe.	The design will take into account the size of the pipes
	They are advising the service line to be included in this project	Service line will be included
	The project should start as soon as possible	This was noted
	They wanted to know if they need to contribute to the project during the construction phase of the project.	The community is not allowed to contribute anything in the construction phase.
	How much is the connection fee for SSS?	There is no connection fee for SSS. The connection is free of charge. The government has paid for its people

Institution	Issue/Concern raised	Response
	What will happen to the houses that use septic tanks?	Once the connection is done, the septic tanks will have no use. The wastewater from the house will be conveyed through SSS pipes to treatment plant

5.7. STAKEHOLDER ENGAGEMENT DURING IMPLEMENTATION

During project implementation, engagement activities will be conducted in line with project activities. During the implementation stage, the engagement process will start with the contractors' introduction. Village and community leaders will be made more aware of the ongoing construction after involvement at the district and regional levels. A range of methods, including focus groups, community events, one-on-one discussions, formal and structured meetings, and site visits, will be used to accomplish this. Various strategies will be employed, depending on the project activities, community needs, issues to be addressed, meeting attendees, etc., to guarantee that the engagement is successful and satisfies the needs of the stakeholders. In the same way, the meetings' purpose should be to discuss the project and raise awareness.

5.8. CONCLUSION

From the consultations, it can be concluded that people are positive towards the project as this project will improve the health and sanitation situation of the area. Also, they do not need to empty their septic tanks and will also solve the problems of mixing the septic tank with storm water during the rainy season. Moreover, the project will provide employment to the locals

6. ASSESSMENT OF THE IMPACT AND IDENTIFICATIONS OF ALTERNATIVE

6.1. INTRODUCTION

Numerous social and environmental elements that are present in the project area would be impacted by the activities involved in the proposed project. The numerous effects that the proposed project's activities are expected to have are outlined in this chapter, taking into account baseline social and environmental conditions. All project phases, including pre-construction, construction, operations and maintenance, and decommissioning, have their potential effects evaluated. This information makes it easier to identify how the environment interacts with planned construction and operation phases.

The Environmental assessment also requires that the assessor identifies alternatives for the proposed project. Therefore, under alternatives, it is required that a number of possible alternative proposals for accomplishing similar objectives be considered. In principle, these project alternatives should include an analysis of the location, timing, technology, delay of implementation and design alternatives as well as No Project Alternative.

6.2. IMPACT ASSESSMENT METHODOLOGY

The extent and duration of the anticipated change, the size of the impacted resource, and its sensitivity to the change all play a major role in determining the assessment of environmental impacts and their significance. Project impacts can be positive or negative, and both have been described and evaluated using the techniques outlined in this section.

The objective of impact identification is to make sure that every possible important influence is found and considered during the planning and execution phases of a project. There are numerous "tools" available to help in impact identification. Impact checklists are the most widely utilized, while matrices, network diagrams, and map overlays are all regularly utilized.

6.2.1. CHECKLISTS AND CRITERIA-BASED APPROACHES

Checklist and Criteria Based Approach Utilizes standardized checklists or criteria to systematically identify potential environmental impacts based on the nature and scope of the project. For this project the Specific criteria were established for different environmental components (e.g., air quality, water

resources, biodiversity) and project activities were evaluated against these criteria to identify potential impacts. These criteria included habitat disturbance, water consumption, etc.

6.2.2. MATRIX

The Consultants team employed the matrix method (screening matrix) to identify environmental impacts. This method consists of identifying and qualifying Project actions by comparing them to natural and social environmental conditions. The result was a list of anthropomorphic actions that have an impact on the environment, including health and safety of the project's communities, which was done by using a cause-effect relationship matrix.

6.2.3. EXPERTS KNOWLEDGE AND STAKEHOLDERS CONSULTATIONS

Experts in relevant fields provided insights based on their knowledge and experience. Stakeholder consultation ensured that local knowledge and community concerns are integrated into the impact identification process, improving the accuracy and comprehensiveness of impact assessments.

6.2.4. LITERATURE REVIEW

Reviews of existing literature and data to identify known impacts of similar projects or activities were also used to identify the project impacts. Literature reviews gather information from scientific studies, reports, and databases to identify common environmental impacts associated with Simplified Sewerage System projects. This method helped to anticipate potential impacts based on empirical evidence and lessons learned from similar cases.

6.2.5. SITE VISITS AND FIELD SURVEYS

Direct observation and data collection from the project site and surrounding environment was used also to gather information regarding the environmental impacts. Field surveys and site visits allowed the team to observe current environmental conditions, identify sensitive habitats or ecosystems, and evaluate potential impacts first-hand. This method provided empirical data to support impact identification and assessment.

Through employing these methodologies, the team systematically identified and evaluated potential environmental impacts associated with the proposed Simplified Sewerage System project.

6.3. INTERACTIONS ON PROJECT ACTIVITIES WITH THE RECEPTORS

Receptors" refer to various elements of the environment that may be affected by project activities. These receptors can include natural resources (such as air, water, soil), ecological systems (habitats, biodiversity), human populations (communities, socio-economic conditions), and cultural or historical

resources. Understanding how project activities interact with these receptors is crucial for assessing potential environmental impacts.

The proposed project is divided into three phases, which are pre-construction, construction, and operation phase, as was previously discussed in Chapter 2. The Interaction Matrix is used to identify the potential impacts that are anticipated during the project. The assessment of interactions between project activities and environmental and social receptors reveals that the project has both beneficial and adverse impacts, which are highlighted in the Matrix.

Table 12: Interactions of the project activities and the receptor.

Project Activity	Physical Environment		Land Environment		Water Environment		Biological Environment		Socio Economic Environment							
	Air	Noise and Vibrations	Land Use	Soil Quality	Surface water	Ground water	Flora	Fauna	Job creation	Community area	Sanitation	Occupational Health & Safety	Waste Generation	GBV	Spread of HIV/AIDS	Wastewater Management & Disposal
Pre Construction Phase																
Vehicle Movement	–	–							+			–				
Construction Phase																
Worker's Camp Installation	–	–							+			–	–	–	–	–
Workers Influx									+			–	–	–	–	
Sanitation Facilities in Camps				–		–					–		–			–
Vehicle Movement.	–	–		–					+	–		–				
Transportation of Construction Materials	–	–							+	–		–	–			
Storage of Construction	–								+	–						

	Physical Environment		Land Environment		Water Environment		Biological Environment		Socio Economic Environment							
Project Activity	Air	Noise and Vibrations	Land Use	Soil Quality	Surface water	Ground water	Flora	Fauna	Job creation	Community area	Sanitation	Occupational Health & Safety	Waste Generation	GBV	Spread of HIV/AIDS	Wastewater Management & Disposal
Materials																
Earthworks	–	–		–					+	–		–	–	–		–
HDPE Pipeline passing along the road pathway			–	–					+	–		–				
Backfilling in some SSS areas	–			–					+	–		–	–			
Construction of Manhole and Inspection Chambers	–	–	–						+	–		–	–	–		–
Concreting for Pipe Restraint, Protection and Chambers	–	–										–				
Construction of concrete stairs for road users.	–	–							+	–		–	–	–		–
Worksite Restoration	–	–	+							+		+				

	Physical Environment		Land Environment		Water Environment		Biological Environment		Socio Economic Environment							
Project Activity	Air	Noise and Vibrations	Land Use	Soil Quality	Surface water	Ground water	Flora	Fauna	Job creation	Community area	Sanitation	Occupational Health & Safety	Waste Generation	GBV	Spread of HIV/AIDS	Wastewater Management & Disposal
Operation Phase																
Wastewater Collection				+						+	+	+	+			+
Pipeline Leakage	-			-	-	-					-					-
Malfunction of manhole and collection Stations	-			-		-					-					-
Maintenance Activities		-		-					+		-	-				-

6.4. DESCRIPTION OF IDENTIFIED POTENTIAL IMPACTS

6.4.1. PRE-CONSTRUCTION PHASE

6.4.1.1. POSITIVE IMPACTS.

A. Creation of employment opportunities

- The pre-construction/planning phase creates employment opportunities to various professionals directly or indirectly linked to the project. The proposed project during this phase will create employment to the consulting firms during the design phase. Also employment creation for waged labour, businesses (food, drinks, construction materials, lodging, etc).
- The project also will generate employment opportunities to drivers who will be driving the Design teams to observe the sites.

6.4.1.2. NEGATIVE IMPACTS.

As the study is not involving Geotechnical Survey and Topographical Survey of the area due to meandering of pipes around the proposed site areas. No anticipated Negative Impact at this stage.

6.4.2. CONSTRUCTION PHASE

6.4.2.1. POSITIVE IMPACTS

A. Employment opportunity

There will be greater opportunities for employment in Nyamagana and Ilemela Municipalities throughout the construction phase. During construction, more people will be employed directly or indirectly as hired laborers. New business opportunities, such the sale of food, beverages, building supplies, and lodging, will also arise. An increase in these occupations is crucial from a financial viewpoint, as they would benefit the community's overall economy primarily through raising purchasing power among residents in the project area.

B. Capacity Building and Skills Transfer

During the Construction period the SSS Project will provide opportunities for skills development and capacity building among local workers. Training programs and technical assistance can equip local laborers with valuable skills, enhancing their employability beyond the project duration and contributing to long-term economic development.

6.4.2.2. NEGATIVE IMPACTS.

A. Soil Erosion

Construction of the simplified sewer pipes, manholes and Inspection Chamber will require "cut and backfill in some areas where the stairs will be provided. Some erosion during construction is unavoidable and will occur temporarily as a result of runoff in areas of excavations.

B. Land Degradation

As the nature of the proposed area is located in the upper hills with rocky. Some of the areas may face land degradation that will be caused by material extraction activities (stone quarry sites) for SSS.

C. Health and Safety Risks

There will be an unavoidable increase in truck traffic during construction of the Simplified sewerage infrastructure. There is a potential safety issue associated with increase in traffic in the vicinity of residential areas. There are also risks associated with infrastructure construction like injuries and accidents.

D. Health and Sanitation Issues

Project activities may also lead to the creation of stagnant water in borrow pits that will result from extraction of stones in some areas. The resultant stagnant water bodies may favour breeding of mosquitoes, snails, and other disease vectors. During construction, much solid wastes will be produced at the campsites as well as at the construction sites. The type of waste to be produced includes scrapers, domestic waste, boxes and building materials. The construction workers will require proper services for sanitation.

E. Interference on daily activities/businesses as most of the works will be carried out adjacent to the businesses/residential areas.

Trench excavation will be carried out in some areas where there are businesses. If the trench is dug in front of any business this cannot allow customers to gain access to respective business locations.

F. Waste Generation and Management

The construction phase will have the impact due to Construction activities that will generate large amounts of waste and debris. Improper disposal of construction waste can lead to visual pollution, land contamination, and illegal dumping. Effective waste management practices are essential to minimize environmental impacts and maintain aesthetic quality in the construction area.

G. Poor air quality from dust and emissions around the construction sites during excavations for Concrete stairs provisions though the impact will be minimal as the activity will

not involve the use of heavy machinery. Transportation of construction materials and equipment will also result in Poor air Quality and Dust. As these activities are residential places, the respective members of the community will be exposed to this nuisance. Dust generation will also results from

H. Increased safety risk to construction/project personnel

Occupational hazards as a result of poor instruction and/or awareness of safety regulations, ignorance and reckless personnel may result from construction works.

I. Flora and Fauna.

No direct impact is anticipated as the Simplified sewerage network is proposed along the pathway and meandering around the houses.

J. Traffic Movement and Public Utilities

The following effects on traffic movement can be envisaged during the construction phase: Road blockage and traffic congestion, Effect on transportation, Disturbance to vehicular and pedestrian movements as the SSS are passing around those areas, chances of accidents etc. Due to trenching in some areas, the general access to residential or commercial properties, markets etc. will be disrupted.

K. Occupational Health and Safety

Various occupational health and safety hazards can affect the work pool: Possibilities of occupational hazards (airborne contaminants, dust, noise, waterborne diseases, accidents, etc.), Sanitation and hygiene issues at workers' camps, Spread of sexually transmitted diseases.

L. Community Health and Safety

Air and noise pollution may impact the local communities and Sexually transmitted diseases may spread in local communities due to workers influx.

M. Gender Based Violence in communities neighboring project

Gender Based Violence risk may be observed at the community level. Gender Based Violence risk at the community level can occur during the construction phases as the division of work may favor only one gender due to the nature of the works. Though must be mitigated by the contractor to implement provisions that ensure that gender- based violence at the community level is not triggered by the Project.

N. Sexual Exploitation and Abuse/Sexual Harassment (SEA/SH) Prevention and Response

Sanitation facilities at the camp may result in Sexual Exploitation Abuse/Sexual Harassment.

O. Spread of diseases (HIV/AIDs, STIs or STDs)

Construction sites will be a place of work where job seekers and other service providers such as food vendors commonly known as “Mama Lishe” will gather for work and services. Such gatherings will

P. Social Equity Issues:

From the lesson learnt in a previous SSS in the area during the pilot and scale up phase, There may be challenges in ensuring equitable access to sanitation services, particularly if the construction of the system disproportionately benefits certain socioeconomic groups or excludes marginalized communities. Inadequate access to sanitation can exacerbate existing inequalities and hinder social inclusion efforts.allow contacts that may spread the incidence of disease.

Q. Impact on other Public Utilities

During the site visit of the proposed areas, it was observed that some of the public utilities are in parallel with the existing Simplified Sewerage System. These public utilities include the uncovered spaghetti water pipes owned by MWAUWASA. The construction activities may lead to damage of those pipes leading to water problems in the area.

6.4.3. OPERATION PHASE

6.4.3.1. POSITIVE IMPACTS

A. Surface waters

Collection of wastewater through operation of the simplified sewerage systems and connection of these to existing conventional systems and water treatment facilities will reduce the inflow of nutrients into Lake Victoria and help improve environmental conditions in the lakeshore.

B. Soil

The simplified sewerage systems will result in less pollution of the soil in the areas concerned.

C. Smell / eyesore

The simplified sewerage systems are expected to greatly improve the sanitation conditions in the proposed areas.

D. Community Health Benefits

Proper wastewater treatment in the area will reduce the risk of waterborne diseases and improve public health outcomes within communities served by simplified sewerage systems. This will lead to lower incidences of waterborne illnesses and associated healthcare costs, thereby enhancing community well-being.

E. Social and Economic Benefits

Improved sanitation infrastructure will enhance the quality of life and socio-economic conditions in the communities, contributing to overall sustainable development goals.

F. Improved Sanitation Coverage

Simplified sewerage systems will extend the sanitation services to areas that previously lacked access to proper sewage disposal. This will improve public health by reducing the spread of waterborne diseases associated with untreated sewage in the project area.

G. Increase of revenue collection for MWAUWASA

The SSS will increase the revenue to MWAUWASA as the SSS bills will be included in the water bills.

H. Improve aesthetic value of Ilemela and Nyamana Municipal

The SSS will improve the aesthetic value of Ilemela and Nyamagana Municipal during operation phases through reduction of pollution associated with On site Sanitation.

6.4.3.2. NEGATIVE IMPACTS

A. Maintenance Challenges

If the system is not properly maintained, The SSS system can become prone to clogging, leakage, or breakdowns, leading to operational inefficiencies and potential health risks.

B. Odor and Aesthetic Concern

Improperly managed simplified sewerage systems will emit odors due to blockage of the system during operations. This will lead to Aesthetic concerns as the proposed areas are particularly densely populated and will affect the quality of life for residents and businesses, impacting local perceptions and potentially discouraging economic activity.

C. Potential for Groundwater Contamination:

Improperly installed or maintained systems will pose risks of groundwater contamination. Leaks, seepage, or infiltration of untreated wastewater into groundwater sources will compromise water quality and pose health risks to nearby communities relying on groundwater for drinking.

D. Social Disruptions:

Repair, or maintenance activities associated with simplified sewerage systems in the area will cause temporary disruptions to daily activities, traffic flow, and local businesses as the system is proposed along the road users pathway. Noise, dust, and inconvenience during these activities may lead to community dissatisfaction and negative perceptions.

6.5. ASSESSMENT OF POSITIVE AND NEGATIVE IMPACTS

Assessing the significance of project impacts, especially for the SSS Project, involves evaluating the extent and importance of both positive and negative effects on various aspects of the environment, society, economy, and operations. In Environmental Impact Assessment (EIA), the significance of project impacts is evaluated to determine the extent and importance of both positive and negative effects on the environment, society, and economy. By using significance rating, the decision maker can make fewer considerations while still receiving important information about the project's potential ramifications. The table below displays the assessment criteria that were utilized in the approach along with the ratings that correspond with them.

Table 13: First step assessment criteria for evaluation of impacts

Assessment Criterion	Ratings
Effect	Direct: effect comes directly from activities at the project site Indirect: effect does not come directly from activities at the project site, but from another direct or indirect effect
Duration of Impact	Short Term (ST): 0-5 years; Medium Term (MT) 5-10 years; Long Term (LT): 15+ years
Reversibility	Irreversible: cannot recover from the impact over a reasonable amount of time Reversible: can recover from the impact over a reasonable amount of time
Extent or Spatial influence of Impact	Site Specific: Within the boundaries of the project site Local: within the local project impact area

	Regional/National/International: Beyond
Magnitude of Impact at the spatial scale	<p>High: natural and/or social functions and/or processes are severely altered</p> <p>Medium: natural and /or social functions and /or processes are notably altered</p> <p>Low: natural and /or social functions and/or processes are negligibly or minimally altered</p>

Using this methodology, a continuum of significance can be derived with the two end points of the continuum being

Table 14: Continuum of Significance

Least Significant	Most Significant
Indirect	Direct
Site Specific	Regional
Low Magnitude	High Magnitude
Short-term	Long-term
Reversible	Irreversible

6.5.1. ASSESSMENT OF CUMULATIVE, RESIDUAL IMPACTS

Assessing cumulative and residual impacts is crucial in Environmental Impact Assessment (EIA) to understand the comprehensive effects of a project on the environment, society, and economy.

6.5.1.1. CUMULATIVE ENVIRONMENTAL IMPACTS ASSOCIATED WITH THE SIMPLIFIED SEWERAGE PROJECT IN THE PROJECT AREA

Cumulative impacts refer to the combined effects of the project with other existing and reasonably foreseeable future projects, activities, or natural processes. These impacts can amplify or diminish the overall significance of the project. These cumulative impacts can also be further split down according to their nature, into positive and negative impacts, random and predictable impacts, local and widespread impacts, temporary and permanent impacts and also short -and long-term impacts as specified for direct and indirect impacts.

a. Increased Pressure on Waste Wastewater Treatment Capacity located at Butuja.

The simplified sewerage system will handle the localized wastewater from the proposed Domestic areas in Mwanza City and Illemela. The available Treatment Plant also receives the wastewater from other areas as the result of the cumulative impact will be a coupled of rapid urban redevelopment and population growth, the system may experience increased wastewater loads beyond initial design capacity. Cumulative impacts may strain treatment units, potentially leading to operational inefficiencies and increased maintenance costs.

b. Stormwater Management Challenges

The SSS Project will involve the use of the concrete materials and other building materials for Manhole, Inspection Chamber and Stairs provision. If the project waste is not well maintained during the rainy season, the concrete materials and other construction waste will increase impermeable surfaces intensifying stormwater runoff. The cumulative Impact will result at the point where these storm water runoff from Impermeable surface of the SSS will Combine with runoff from roads and other developments, and stormwater will overwhelm the available local drainage systems.

c. Community Health and Safety Concerns

Improved sanitation from the project will reduce the health risks associated with inadequate wastewater disposal. However, increased urban density, traffic congestion from Other Development projects, and air pollution from industrial activities will continue to pose health challenges. The Cumulative impacts will include mixed outcomes for community health, with improved sanitation benefiting public health while ongoing urban pressures contribute to respiratory illnesses and traffic-related accidents.

d. Surface Water Quality Degradation

The proposed project in case of the System failure due to clogging or blockage, the untreated wastewater may enter into the local surface water bodies, such as streams or in the lake during the rainy season. Coupled with runoff from urban areas (e.g., road surfaces, parking lots) the project's discharge could increase nutrient loads and sedimentation in water bodies. Cumulative impacts will result in eutrophication, harmful algal blooms, and degradation of aquatic habitats, impacting aquatic biodiversity and recreational use of water resources.

6.5.1.2. RESIDUAL ENVIRONMENTAL IMPACTS ASSOCIATED WITH THE SIMPLIFIED SEWERAGE PROJECT IN THE PROJECT AREA

Residual Environmental Impacts The residual impacts refer to those environmental effects predicted to remain after the application of mitigation actions outlined in the environmental assessment. The identified residual impacts are

a. Community Health and Safety

Poorly managed sewer systems during operation will emit odors and affect local air quality, impacting community well-being. Despite best efforts, occasional odor issues or air pollutants from treatment processes may also persist.

Mitigation: Implementing odor control technologies, regular maintenance of treatment facilities, and community outreach to address concerns can help manage these residual impacts effectively.

b. Water Quality Concerns

Effluent Discharge: Despite treatment at Butuja, residual pollutants (e.g., nutrients, suspended solids) may remain in the treated effluent. Discharge into receiving water bodies could affect water quality and aquatic ecosystems, potentially leading to eutrophication or habitat degradation.

Mitigation: Enhancing treatment processes, monitoring effluent quality, and implementing measures to reduce nutrient loads before discharge can help mitigate these impacts.

c. Visual Changes and Aesthetic Impact:

Temporary disruption to the visual landscape with excavation, trenching, and installation of sewer pipelines in some areas will take place. Due to the nature of the area, After completion, the presence of sewer infrastructure, such as manholes, inspection chambers and some SSS, may alter the visual aesthetics of the neighborhood.

Mitigation: Designing infrastructure to blend harmoniously with the urban environment and involving community input can help mitigate visual impacts.

6.5.2. ANALYSIS OF ENVIRONMENTAL AND SOCIAL IMPACTS

The table below provides an overview of the implications. They are separated into three categories: cumulative, indirect, and direct effects. Moreover, a declaration is provided on the impact's classification—light, moderate, or significant.

Table 15: Analysis of Environmental and Social Impacts -Soil Erosion

Description of Impacts	Effect		Duration			Reversibility		Extent		Significance
	Direct	Indirect	Short term	Medium term	Long term	Reversible	Irreversible	Local	Region	
construction phase										
Soil Erosion	✓				✓	✓		✓		Medium
Land Degradation	✓		✓				✓	✓		Medium
Health and Safety Risks	✓		✓			✓		✓		Medium
Health and Sanitation Issues	✓		✓			✓		✓		Low
Interference on daily activities/businesses as most of the works will be carried out adjacent to the businesses/residential areas	✓		✓			✓		✓		Low
Waste Generation and Management	✓		✓			✓		✓		Low
Poor air quality from dust and emissions around the construction site	✓		✓			✓			✓	Low
Increased safety risk to construction/project personnel	✓		✓			✓		✓		Low

Description of Impacts	Effect		Duration			Reversibility		Extent		Significance
	Direct	Indirect	Short term	Medium term	Long term	Reversible	Irreversible	Local	Region	
Traffic Movement and Public Utilities	✓		✓				✓	✓		Low
Gender Based Violence in communities neighboring project	✓		✓			✓		✓		Medium
Spread of diseases (HIV/AIDs, STIs or STDs)	✓		✓			✓			✓	Medium
Social Equity Issues:		✓	✓			✓		✓		Low
Impact on other Public Utilities	✓		✓				✓	✓		Low
Operation Phase										
Odor and Aesthetic Concern	✓				✓	✓		✓		Medium
Social Disruptions		✓			✓	✓		✓		Medium
Maintenance Challenges due to clogs of pipes	✓				✓	✓		✓		Medium

6.6. PROJECT ALTERNATIVES

For this project, several project alternatives were considered based on local conditions, environmental factors, community needs, and feasibility. Here are some common project alternatives that were considered.

6.6.1. NO-PROJECT ALTERNATIVE

The No-Project Alternative means that the proposed project will not go ahead. Constructions and operations will not take place. The “No Project” is an economic alternative but is not worth considering as it does not have any benefits. As the objective of the proposed project is to provide adequate sanitation facilities to the people who are living in higher hills in Mwanza region, mainly to improve public health and reduce environmental pollution, ‘no project’ alternative can obliterate this opportunity.

Currently untreated sewage effluents flow directly into the lake, during the rainy season and it is a major cause of marine pollution. Construction of the proposed SSS works will restore the water quality and aquatic biodiversity of the sea as well as the surrounding coastal areas of the city. Similarly, construction of the sewerage network will provide better sanitation facilities to the people who at present mostly depend on the pit latrines.

6.6.2. CHOOSING UPVC PIPES AND STEEL PIPES INSTEAD OF THE HDPE

Common materials for sewer pipes include: unplasticized polyvinyl chloride (uPVC) pipes, high density polyethylene (HDPE) pipes, Double Walled Corrugated (DWC) pipes, precast concrete pipes, ductile iron (DI) pipes, glass reinforced plastic (GRP) pipes and steel pipes.

Due to the rocky and hilly site conditions, limited working space and depth of laying of pipes, uPVC, concrete, DI and steel pipes are not appropriate for the areas. The most appropriate sewer pipe materials for the areas are HDPE, DWC and GRP as they are not rigid, are flexible, can withstand external loads and do not require elaborate bedding protection. Furthermore, they are lightweight and can be manually carried and installed with limited susceptibility to vandalism. Also the use of steel pipes and Upvc Pipes can result in resettlement.

Due to local availability HDPE which is manufactured within the country would be the most suitable for use in the simplified sewer system for the project areas but needs to be covered to avoid deterioration due to sunlight exposure.

6.6.3. BUILDING A SOLIDS-FREE SEWERS INSTEAD OF SIMPLIFIED SEWERAGE SYSTEM

Referred to as settled, small-bore, variable-grade gravity, or septic tank effluent gravity sewers. Comparable medium capital investment cost. Preferable where an efficient primary treatment at the

household levels is applicable, requires enough space for construction of septic tanks. This is the second preferable option, however, the limited space for septic tanks and soak away pits may not favour this option.

6.6.4. BUILDING CONVENTIONAL GRAVITY SEWERS INSTEAD OF SIMPLIFIED SEWERAGE SYSTEM

Large networks of underground pipes that convey blackwater, grey water and, in many cases, storm water from individual households. Comparable high capital investment cost. Requires planned settlements with reliable access/ roads. The construction of conventional sewer systems in unplanned settlements is complicated and may not be applicable in the project areas. Hence this option is not feasible.

6.6.5. ALTERNATIVE DESIGN AND TECHNOLOGY

The proponent has already implemented the SSS technology during the pilot and scale up phase, hence no need to adopt alternative design as the ones proposed suffice for the project as it were.

7. MITIGATION MEASURES FOR THE IDENTIFIED IMPACTS

7.1. MITIGATION MEASURES FOR IDENTIFIED IMPACTS DURING CONSTRUCTION PHASES

S/N	Impacts	Mitigation actions
01	Soil Erosion	<ul style="list-style-type: none">• Sequence construction activities to minimize the duration and extent of exposed soil. Complete one section of work before moving to the next to limit soil disturbance.• Conduct regular inspections of erosion control measures and promptly repair or reinforce any damaged or ineffective controls.• Provide training to construction personnel on erosion control best practices• Erect barriers along the perimeter of the manhole and other construction site to capture sediment and prevent it from entering nearby waterways or storm drains.
02	Land Degradation	<ul style="list-style-type: none">• Implement construction techniques that minimize soil disturbance and compaction.• Engage with local communities to raise awareness about the importance of soil conservation and proper land management practices.• Establish regular monitoring programs to assess the effectiveness of erosion control measures and soil management practices.

S/N	Impacts	Mitigation actions
03	Health and Safety Risks	<ul style="list-style-type: none"> • Ensure all workers wear appropriate PPE such as hard hats, gloves, safety boots, and high-visibility clothing. • Provide training on the proper use, maintenance, and disposal of PPE • Conduct comprehensive safety inductions for all personnel involved in the project. Provide ongoing training on hazard identification, safe work practices, and emergency procedures. • Implement traffic control measures, including signage, barriers, and designated pedestrian pathways, to ensure the safety of workers and the public near construction zones. • Develop and communicate emergency response plans, including procedures for medical emergencies. • Implement regular site inspections and audits to monitor compliance with safety procedures. • Provide appropriate storage, handling, and disposal procedures in accordance with regulatory requirements. • Ensure all construction equipment is operated by trained personnel only. • Engage with the local community to communicate potential health and safety risks associated with the sewerage system. Address community concerns promptly and transparently
04	Health and Sanitation Issues	<ul style="list-style-type: none"> • Provide adequate sanitation facilities, such as portable toilets and handwashing stations, for construction workers. • Implement proper waste segregation, collection, and disposal practices on construction sites to prevent environmental contamination and public health risks.

S/N	Impacts	Mitigation actions
		<ul style="list-style-type: none"> Implement measures to control pests and vectors (e.g. mosquitoes, rodents) that may breed in stagnant water or construction debris. Use dust suppression techniques (e.g., water spraying, dust barriers) to control airborne particulates generated during construction activities. Promote good hygiene practices through training and awareness campaigns among workers. Provide designated areas for waste storage and ensure regular removal to prevent accumulation and potential health hazards. Monitor and respond promptly to any outbreaks or health concerns among workers or nearby residents. Establish communication channels for community feedback and concerns regarding health impacts.
05	Interference on daily activities/businesses as most of the works will be carried out adjacent to the businesses/residential areas.	<ul style="list-style-type: none"> Establish clear communication channels with businesses and residents well in advance of construction activities. Provide information about project timelines, potential disruptions, and contact points for inquiries or concerns. Schedule construction activities to minimize impact on peak business hours or residential routines. Coordinate with local authorities and stakeholders to ensure alignment with community events or activities. Appoint dedicated community liaison officers or project ambassadors to act as points of contact for residents. These officers can address concerns, provide updates, and facilitate feedback throughout the project duration.
06	Waste Generation and	<ul style="list-style-type: none"> Implement practices to reduce waste generation at

S/N	Impacts	Mitigation actions
	Management	<p>the source, such as optimizing material use, reusing construction materials, and minimizing packaging waste.</p> <ul style="list-style-type: none"> • Establish onsite waste segregation stations for sorting construction waste into recyclable, reusable, and non-recyclable categories. • Ensure proper handling, storage, and disposal of construction waste in accordance with local regulations and environmental standards. • Include waste management requirements in contractor agreements and contracts, specifying responsibilities for waste handling, recycling, and disposal practices. • Engage with the community through educational campaigns and outreach programs to promote waste reduction, recycling, and responsible disposal practices. • Implement monitoring programs to track waste generation rates, recycling rates, and compliance with waste management protocols. • Regularly review and update waste management practices based on lessons learned, technological advancements, and regulatory changes.
07	Poor air quality from dust and emissions around the construction sites	<ul style="list-style-type: none"> • Use water spraying systems to suppress dust emissions from construction activities, such as excavation, trenching, and material handling. • Install temporary enclosures or barriers around dusty operations to contain airborne particles within the construction site. • Maintain construction vehicles and equipment to ensure proper functioning of exhaust systems and minimize emissions of particulate matter. • Implement traffic control measures, such as speed limits and designated haul routes, to reduce

S/N	Impacts	Mitigation actions
		<p>vehicle-generated dust on unpaved roads or construction access points.</p> <ul style="list-style-type: none"> Communicate with the local community about air quality concerns, mitigation measures in place, and anticipated construction impacts.
08	Flora and Fauna.	<ul style="list-style-type: none"> No direct impact is anticipated as the Simplified sewerage network is proposed along the pathway and meandering around the houses.
09	Traffic Movement and Public Utilities	<ul style="list-style-type: none"> Develop a comprehensive TMP that includes strategies for minimizing congestion, ensuring safe passage for vehicles and pedestrians, and maintaining traffic flow around construction zones. Create temporary access points to maintain accessibility for businesses and residences. Conduct thorough utility surveys to identify existing underground utilities (e.g., water lines along the construction route. Implement measures to protect utilities from damage during excavation. Temporarily relocate or protect vulnerable utilities that intersect with construction activities. Coordinate with utility providers to ensure uninterrupted service for residents. Develop and communicate emergency response plans specific to utility disruptions or accidents. Train project personnel and local stakeholders on procedures for rapid response and recovery. Engage with affected stakeholders, including residents, businesses, and utility providers, through regular meetings. Monitor environmental impacts associated with traffic movement and public utilities throughout the project lifecycle. Ensure compliance with environmental regulations and permit conditions.

S/N	Impacts	Mitigation actions
10	Spread of diseases (HIV/AIDs, STIs or STDs)	<ul style="list-style-type: none"> • Conduct targeted health promotion campaigns to raise awareness about safe hygiene practices, including handwashing, safe disposal of waste, and personal hygiene. • Integrate sexual health education into community outreach programs, schools, and local health services. Provide information on safe sex practices, condom use, and regular STI screening. • Train healthcare providers on the identification, diagnosis, and treatment of HIV/AIDS, STIs, and STDs. Ensure access to confidential and non-judgmental services for affected individuals. • Address stigma associated with HIV/AIDS, STIs, and STDs through education and awareness campaigns. Promote a supportive environment for affected individuals to seek testing and treatment. • Conduct regular health impact assessments to monitor the effectiveness of disease prevention measures and identify emerging health risks.
11	Social Equity Issues:	<ul style="list-style-type: none"> • Ensure that all community members, regardless of socio-economic status or location, have equitable access to the benefits of the sewerage system • Implement pricing and financing mechanisms that consider the affordability of sewerage services for low-income households. • Engage local communities in the planning, design, and decision-making processes of the sewerage project. Foster inclusive participation through public consultations, workshops, and advisory committees. • Prioritize local hiring and procurement practices to maximize employment opportunities and economic benefits for residents living in project-affected areas.

S/N	Impacts	Mitigation actions
		<ul style="list-style-type: none"> • Provide training programs and educational initiatives on sanitation hygiene, health awareness, and sustainable practices for local residents, particularly marginalized groups. • Establish monitoring and evaluation frameworks to track the socio-economic impacts of the sewerage project over time. Regularly assess outcomes against social equity indicators.
12	Gender Based Violence in communities neighboring project	<p>The contractor will implement provisions that ensure that gender-based violence at the community level is not triggered by the Project, including:</p> <ul style="list-style-type: none"> • Effective and on-going community engagement and consultation, particularly with women and girls in the project area. • Review and ensure that specific project components that are known to heighten GBV risk at the community level, e.g. employment schemes for women are managed and implemented in a manner that will safeguard against violence against women. • Specific plan for mitigating these known risks, e.g. sensitization around gender- equitable approaches employment • The contractor will ensure adequate referral mechanisms are in place if a case of GBV at the community level is reported related to project implementation.

7.2. DURING IMPLEMENTATION PHASE

S/N	Impacts	Mitigation Measures
01	Maintenance Challenges	<ul style="list-style-type: none"> • Ensure the Simplified sewerage system is designed and constructed to withstand operational demands and environmental conditions. Use durable materials and construction techniques that minimize vulnerabilities. • Implement a proactive maintenance schedule with regular inspections of simplified sewerage infrastructure, including pipelines, manhole and Inspection chambers • Provide training and capacity building programs for maintenance staff on technical skills, safety practices, and operational procedures related to the SSS. • Develop contingency plans and emergency response protocols to address unexpected events such as equipment failures, severe weather impacts, or system malfunctions. Ensure access to emergency supplies and resources. • Engage stakeholders, including local communities, businesses, and regulatory authorities, in maintenance planning and activities. Encourage community participation in reporting issues and monitoring system performance. • Establish a comprehensive maintenance program to inspect, maintain, and repair sewerage infrastructure regularly. Monitor for signs of wear, corrosion, or potential leaks that could compromise groundwater integrity.
02	Odor and Aesthetic Concern	<ul style="list-style-type: none"> • Conduct routine inspections of sewer lines, manholes, and treatment infrastructure to detect and repair leaks, blockages, or other sources of

S/N	Impacts	Mitigation Measures
		<p>odors promptly.</p> <ul style="list-style-type: none"> • Use odor neutralizing agents or masking agents in areas where complete elimination of odors is challenging, such as near ventilation outlets or public access points. • Establish mechanisms for the public to report odor concerns promptly. Implement a responsive system to investigate complaints and implement corrective actions. • Implement a regular maintenance schedule for around Simplified sewerage facilities. Keep facilities clean and well-maintained. • Engage with local residents, businesses, and stakeholders to gather input on aesthetic preferences and concerns during project planning and design phases. • Establish a comprehensive waste management plan for ongoing operation and maintenance activities, including regular waste collection and disposal schedules.
03	Social Disruptions associated with maintenance activities	<ul style="list-style-type: none"> • Engage with local communities early in the planning phase to gather input, address concerns, and build consensus on project goals and benefits. • Maintain open communication with affected stakeholders, including residents, businesses, and community organizations, regarding upcoming maintenance activities. Provide clear information on schedules, duration, and potential impacts. • Notify residents in advance of planned maintenance. Provide updates as needed to keep stakeholders informed of any changes. • Schedule maintenance activities during off-peak hours or times of lower community activity whenever possible. Coordinate with local authorities

S/N	Impacts	Mitigation Measures
		<p>to minimize impacts on traffic and daily routines.</p> <ul style="list-style-type: none"> Establish mechanisms for collecting feedback from the community regarding the impacts of maintenance activities. Use feedback to improve future planning and address concerns proactively. Conduct thorough cleanup of work areas and restore affected areas to their original condition following completion of maintenance activities. Address any residual impacts promptly.
Cumulative Impacts		
01	Increased Pressure on Waste Wastewater Treatment Capacity located at Butuja	<ul style="list-style-type: none"> Conduct regular assessments of wastewater treatment capacity at Butuja relative to projected demand. Plan for infrastructure upgrades or expansions based on growth projections and operational data. Optimize the operational efficiency of existing treatment facilities through process improvements, automation, and maintenance protocols. Enhance nutrient removal and sludge management processes. Implement measures to control excessive inflow and infiltration (I&I) into the simplified sewerage system, such as repairing leaks, sealing manholes, and upgrading aging infrastructure. Develop and maintain emergency response plans to manage unexpected surges in wastewater flow or treatment disruptions. Ensure readiness to implement alternative treatment solutions if needed. Establish continuous monitoring of wastewater flow, quality parameters, and treatment performance. Use data-driven insights to adjust operational strategies and forecast future capacity needs. Maintain compliance with wastewater discharge

S/N	Impacts	Mitigation Measures
		permits and regulatory requirements. Submit timely reports on treatment plant performance, effluent quality, and operational challenges.
02	Stormwater Management Challenges	<ul style="list-style-type: none"> • Use permeable pavement and pervious surfaces in parking lots, sidewalks, and open spaces to allow infiltration of stormwater into the ground. • Educate residents, businesses, and stakeholders on the importance of stormwater management practices, such as reducing impervious surfaces and implementing rainwater harvesting. • Adhere to local stormwater management regulations and guidelines. Implement best management practices (BMPs) for construction and maintenance activities to minimize impacts on drainage systems. • Establish regular monitoring programs to assess the effectiveness of stormwater management measures. Conduct routine maintenance of infrastructure to ensure proper functioning and longevity.
03	Community health and Safety	<ul style="list-style-type: none"> • Engage with local communities, stakeholders, and health professionals throughout the project lifecycle. Solicit feedback, address concerns, and incorporate community perspectives into mitigation strategies. • Monitor the effectiveness of mitigation measures through ongoing evaluation and feedback mechanisms. Adjust strategies as needed based on monitoring data and community input.

8. ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

8.1. INTRODUCTION

An Environmental and Social Management Plan (ESMP) is a comprehensive framework designed to manage the potential environmental and social impacts of a project, ensuring sustainable practices and compliance with regulatory requirements. As such, ESMPs are crucial tools for guaranteeing that management decisions resulting from Environmental Impact Assessment (EIA) procedures are precisely stated and carried out during the whole project life cycle.

The primary objective of an Environmental and Social Management Plan (ESMP) is to manage and mitigate the potential environmental and social impacts associated with a project throughout its lifecycle. Some of the key objectives of implementing an ESMP:

1. **Environmental Protection:** It ensures that the project activities do not harm the environment by identifying potential impacts and implementing measures to prevent, minimize, or mitigate them.
2. **Social Responsibility:** It addresses social risks and impacts on communities and stakeholders affected by the project, including issues related to livelihoods, health, safety, and cultural heritage.
3. **Compliance:** Ensures compliance with regulatory requirements, international standards (if applicable), and commitments made during project approval processes.
4. **Risk Management:** It identifies and assess environmental and social risks associated with the project and implement strategies to manage these risks effectively.

Overall, an ESMP aims to promote sustainable development by integrating environmental and social considerations into project planning, implementation, and monitoring processes, thereby minimizing negative impacts and maximizing positive outcomes for both the project and its stakeholders.

8.2. IMPLEMENTATION ARRANGEMENT OF THE PROJECT WORKS AND THE ESMP

The Ministry of Water, acting through MWAUWASA, is the "Promoter" and has final ownership of this project, even if the Ministry of Finance and Planning (MoFP) is the "borrower" of the loan. The Ministry

of Work (MoW) bears the responsibility for supervising work throughout the project and for monitoring work in addition to offering more advanced technical support.

Local execution is the responsibility of MWAUWASA, which also serves as the implementing agency and is tasked with fulfilling the promises within its geographic purview.

With assistance from project management and supervision specialists, the Project Management Unit (PMU) of MWAUWASA is in charge of daily operational control of this project.

MWAUWASA will make sure that the contractor and subcontractors that win the contracts to carry out the work follow the established protocols for building and commissioning the suggested development. The project will need the backing of numerous entities in the project region in order to reduce any potential detrimental effects on the environment and society.

8.3. REPORTING ARRANGEMENT OF THE ESMP.

MWAUWASA Environmental Representative or Consultant's appointee to deal with Environmental Management will cooperate with other experts Nyamagana and Ilemela Districts such as District Land Officers, District Valuer(s), Community Development Officers and District Environmental Management Officers to provide the Regional Environmental Management Expert with environmental reports of the project implementation as part of the progress reports and annual environmental monitoring reports. The Regional Management Expert is the link person between the region and the Director of Environment as well as the Director General of NEMC.

The Environmental and Social Management Plans for the SSS Project is shown in successive tables below.

Table 16: Enhancement plan for positive environmental and social impacts

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
Construction Phase					
A. Job Creations	Promote and give priority employment to local community and train individuals assigned to manage the different departments for improved performance	Contractor/MWAUW ASA	Construction period Operation period	Achieve maximum employment targets in the area.	Included in the cost of construction
B. Improvement of community health	Sensitization of the community to use a simplified sewerage system rather than the ordinary pit latrines and septic tanks.	Contractor/MWAUW ASA	Construction and Operation Phase	Number of household connected with sewer	3000
Operation Phases					
Increase of revenue collection for MWAUWASA	<ul style="list-style-type: none"> Improved Service delivery by MWAUWASA Encourage customers to use Simplified sewer system; 	MWAUWASA	Operation Phase	Increase revenue collected Improved service delivery	1000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<ul style="list-style-type: none"> People willingness to pay for sewerage services; and Adequate flow of piped water supply 				
Improved quality of surface and ground water resources	<ul style="list-style-type: none"> Regular monitoring and maintenance of the sewer system. Monitor surface and groundwater 	MWAUWASA	Operation Phases	Low rate of disease incidences	5000
Improve aesthetic value of Illemela and Nyamagana Municipal	<ul style="list-style-type: none"> Repair of any leaking sewerage pipes; Cleaning manholes and chambers 	MWAUWASA	Operation Phases	<ul style="list-style-type: none"> Aesthetics of the surroundings Increased tourist and business people 	Included in the Cost of Operation

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
Economical benefits accrued from reduction of costs of simplified sewerage system	<ul style="list-style-type: none"> Use of simplified sewer system to avoid high cost of hiring septic tanks empties 	Ilemela and Nyamagana Residents	Operation Phase	<ul style="list-style-type: none"> Increased serving from cost of emptying septic tanks 	500

Table 17 Environmental and Social Management Plans for Negative Impacts

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
During Construction Phase					
C. Soil Erosion	<ul style="list-style-type: none"> Sequence construction activities to minimize the duration and extent of exposed soil. Complete one section of work before moving to the next to limit soil disturbance. Conduct regular inspections of erosion control measures and promptly repair or reinforce any damaged or ineffective controls. Provide training to construction personnel on erosion control best practices Erect barriers along the perimeter of the manhole and other construction site to 	Supervising Engineer/Contractor	Monthly	Soil erosion controlled	10000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	capture sediment and prevent it from entering nearby waterways or storm drains.				
D. Land Degradation	<ul style="list-style-type: none"> Implement construction techniques that minimize soil disturbance and compaction. Engage with local communities to raise awareness about the importance of soil conservation and proper land management practices. Establish regular monitoring programs to assess the effectiveness of erosion control measures and soil management practices. 	Supervising Engineer/Contractor	Monthly	Land Degradation is controlled	5000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
E. Health and Safety Risks	<ul style="list-style-type: none"> • Ensure all workers wear appropriate PPE such as hard hats, gloves, safety boots, and high-visibility clothing. • Provide training on the proper use, maintenance, and disposal of PPE • Conduct comprehensive safety inductions for all personnel involved in the project. Provide ongoing training on hazard identification, safe work practices, and emergency procedures. • Implement traffic control measures, including signage, barriers, and designated pedestrian pathways, to 	Supervising Engineer/ Project contractor	Daily	PPE supplied and used at all work sites	10000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>ensure the safety of workers and the public near construction zones.</p> <ul style="list-style-type: none"> • Develop and communicate emergency response plans, including procedures for medical emergencies. • Implement regular site inspections and audits to monitor compliance with safety procedures. • Provide appropriate storage, handling, and disposal procedures in accordance with regulatory requirements. • Ensure all construction equipment is operated by trained personnel only. 				
F. Health and Sanitation	<ul style="list-style-type: none"> • Provide adequate sanitation 	MWAUWASA/Super	Throughout the	Improved Health and Sanitation Condition.	12000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
Issues	<p>facilities, such as portable toilets and handwashing stations, for construction workers.</p> <ul style="list-style-type: none"> Implement proper waste segregation, collection, and disposal practices on construction sites to prevent environmental contamination and public health risks. Implement measures to control pests and vectors (e.g. mosquitoes, rodents) that may breed in stagnant water or construction debris. Use dust suppression techniques (e.g., water spraying, dust barriers) to control airborne particulates generated during 	vising Engineers.	construction phase.		

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>construction activities.</p> <ul style="list-style-type: none"> Promote good hygiene practices through training and awareness campaigns among workers. Provide designated areas for waste storage and ensure regular removal to prevent accumulation and potential health hazards. Monitor and respond promptly to any outbreaks or health concerns among workers or nearby residents 				
G. Interference on daily activities/businesses as most of the works will be carried out adjacent to the businesses/residential	<ul style="list-style-type: none"> Establish clear communication channels with businesses and residents well in advance of construction activities. 	Supervising Engineer/Project contractor	Before start of construction works	Sensitization of the business owners/Residential for the interference encountered	7000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
areas.	<p>Provide information about project timelines, potential disruptions, and contact points for inquiries or concerns.</p> <ul style="list-style-type: none"> • Schedule construction activities to minimize impact on peak business hours or residential routines. Coordinate with local authorities and stakeholders to ensure alignment with community events or activities. • Appoint dedicated community liaison officers or project ambassadors to act as points of contact for residents. These officers can address concerns, provide updates, 				

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	and facilitate feedback throughout the project duration				
H. Waste Generation and Management	<ul style="list-style-type: none"> Implement practices to reduce waste generation at the source, such as optimizing material use, reusing construction materials, and minimizing packaging waste. Establish onsite waste segregation stations for sorting construction waste into recyclable, reusable, and non-recyclable categories. Ensure proper handling, storage, and disposal of construction waste in accordance with local 	Supervising Engineer and Contractor	Every day	Good housekeeping	12000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>regulations and environmental standards.</p> <ul style="list-style-type: none"> • Include waste management requirements in contractor agreements and contracts, specifying responsibilities for waste handling, recycling, and disposal practices. • Engage with the community through educational campaigns and outreach programs to promote waste reduction, recycling, and responsible disposal practices. • Implement monitoring programs to track waste generation rates, recycling rates, and compliance with waste management 				

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>protocols.</p> <ul style="list-style-type: none"> Regularly review and update waste management practices based on lessons learned, technological advancements, and regulatory changes. 				
I. Poor air quality from dust and emissions around the construction sites	<ul style="list-style-type: none"> Use water spraying systems to suppress dust emissions from construction activities, such as excavation, trenching, and material handling. Install temporary enclosures or barriers around dusty operations to contain airborne particles within the construction site. Maintain construction vehicles and equipment to 	Supervising Engineer/ contractor	Weekly	Within limits	10000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>ensure proper functioning of exhaust systems and minimize emissions of particulate matter.</p> <ul style="list-style-type: none"> • Implement traffic control measures, such as speed limits and designated haul routes, to reduce vehicle-generated dust on unpaved roads or construction access points. • Communicate with the local community about air quality concerns, mitigation measures in place, and anticipated construction impacts. 				
J. Traffic Movement and Public Utilities	<ul style="list-style-type: none"> • Develop a comprehensive TMP that includes strategies 	Supervising Engineer/Contractor	Throughout the Construction Phase.	Disruption of public services and subsequent public	10000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>for minimizing congestion, ensuring safe pedestrians, and maintaining traffic flow around construction zones.</p> <ul style="list-style-type: none"> • Create temporary access points to maintain accessibility for businesses and residences. • Conduct thorough utility surveys to identify existing underground utilities (e.g., water lines along the construction route. Implement measures to protect utilities from damage during excavation. • Temporarily relocate or protect vulnerable utilities that intersect with construction activities. 			inconvenience is minimized	

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>Coordinate with utility providers to ensure uninterrupted service for residents.</p> <ul style="list-style-type: none"> • Develop and communicate emergency response plans specific to utility disruptions or accidents. Train project personnel and local stakeholders on procedures for rapid response and recovery. • Engage with affected stakeholders, including residents, businesses, and utility providers, through regular meetings. • Monitor environmental impacts associated with traffic movement and public 				

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	utilities.				
K. Spread of diseases (HIV/AIDs, STIs or STDs)	<ul style="list-style-type: none"> Conduct targeted health promotion campaigns to raise awareness about safe hygiene practices, including handwashing, safe disposal of waste, and personal hygiene. Integrate sexual health education into community outreach programs, and local health services. Provide information on safe sex practices, condom use, and regular STI screening. Train healthcare providers on the identification, diagnosis, and treatment of HIV/AIDS, STIs, and STDs. Ensure 	Contractor	Once every week on weekends	All employees Sensitized and examined	10000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>access to confidential and non-judgmental services for affected individuals.</p> <ul style="list-style-type: none"> Address stigma associated with HIV/AIDS, STIs, and STDs through education and awareness campaigns. Promote a supportive environment for affected individuals to seek testing and treatment. Construction workers to undergo health screening according to the National HIV/AIDs Policy. 				
L. Social Equity Issues:	<ul style="list-style-type: none"> Ensure that all community members, regardless of socio-economic status or location, have equitable 	MWAUWASA/Contr actor	Throughout the Construction Phases	No complaints	10000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>access to the benefits of the sewerage system</p> <ul style="list-style-type: none"> • Implement pricing and financing mechanisms that consider the affordability of sewerage services for low-income households. • Engage local communities in the planning, design, and decision-making processes of the SSS project. Foster inclusive participation through public consultations, workshops, and advisory committees. • Prioritize local hiring and procurement practices to maximize employment opportunities and economic benefits for residents living in 				

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	project-affected areas.				
M. Gender Based Violence in communities neighboring project	<p>The contractor will implement provisions that ensure that gender-based violence at the community level is not triggered by the Project, including:</p> <ul style="list-style-type: none"> • Effective and on-going community engagement and consultation, particularly with women and girls in the project area. • Review and ensure that specific project components that are known to heighten GBV risk at the community level, e.g. employment schemes for women are managed and implemented in a manner that will 	MWAUWASA/Contractor	Throughout the project Cycle	No Gender discrimination during recruitment and wages, harassment of women and sexual exploitation.	10000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>safeguard against violence against women.</p> <ul style="list-style-type: none"> Specific plan for mitigating these known risks, e.g. sensitization around gender-equitable approaches employment The contractor will ensure adequate referral mechanisms are in place if a case of GBV at the community level is reported related to project implementation. 				
Operation Phase					
N. Maintenance Challenges	<ul style="list-style-type: none"> Ensure the Simplified sewerage system is designed and constructed to withstand 	MWAUWASA	Monthly during operations	No complaints from surroundings/Users of the SSS in the area.	10000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>operational demands and environmental conditions. Use durable materials and construction techniques that minimize vulnerabilities.</p> <ul style="list-style-type: none"> • Implement a proactive maintenance schedule with regular inspections of simplified sewerage infrastructure, including pipelines, manhole and Inspection chambers • Provide training and capacity building programs for maintenance staff on technical skills, safety practices, and operational procedures related to the SSS. 				

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<ul style="list-style-type: none"> Develop contingency plans and emergency response protocols to address unexpected events such as equipment failures, severe weather impacts, or system malfunctions. Ensure access to emergency supplies and resources. Engage stakeholders, including local communities, businesses, and regulatory authorities, in maintenance planning and activities. Encourage community participation in reporting issues and monitoring system performance. Establish a comprehensive 				

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>maintenance program to inspect, maintain, and repair sewerage infrastructure regularly. Monitor for signs of wear, corrosion, or potential leaks that could compromise groundwater integrity.</p>				
O. Odor and Aesthetic Concern	<ul style="list-style-type: none"> Conduct routine inspections of sewer lines, manholes, and treatment infrastructure to detect and repair leaks, blockages, or other sources of odors promptly. Use odor neutralizing agents or masking agents in areas where complete elimination of odors is challenging, such as near ventilation outlets or 	MWAUWASA	Monthly during Operations	No complaint from the surrounding	12000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>public access points.</p> <ul style="list-style-type: none"> Establish mechanisms for the public to report odor concerns promptly. Implement a responsive system to investigate complaints and implement corrective actions. Implement a regular maintenance schedule for around Simplified sewerage facilities. Keep facilities clean and well-maintained. Engage with local residents, businesses, and stakeholders to gather input on aesthetic preferences and concerns during project 				

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>planning and design phases.</p> <ul style="list-style-type: none"> Establish a comprehensive waste management plan for ongoing operation and maintenance activities, including regular waste collection and disposal schedules. 				
P. Social Disruptions associated with maintenance activities	<ul style="list-style-type: none"> Engage with local communities early in the planning phase to gather input, address concerns, and build consensus on project goals and benefits. Maintain open communication with affected stakeholders, including residents, businesses, and 	MWAUWASA	Monthly during operations	No complaint	12000

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>community organizations, regarding upcoming maintenance activities. Provide clear information on schedules, duration, and potential impacts.</p> <ul style="list-style-type: none"> • Notify residents in advance of planned maintenance. Provide updates as needed to keep stakeholders informed of any changes. • Schedule maintenance activities during off-peak hours or times of lower community activity whenever possible. Coordinate with local authorities to minimize impacts on traffic and daily 				

Impact	Management Measures	Responsible for mitigation	Time Frame	Target Level / standard	Estimated Cost (USD)
	<p>routines.</p> <ul style="list-style-type: none"> Establish mechanisms for collecting feedback from the community regarding the impacts of maintenance activities. Use feedback to improve future planning and address concerns proactively. Conduct thorough cleanup of work areas and restore affected areas to their original condition following completion of maintenance activities. Address any residual impacts promptly 				
TOTAL					149500

9. ENVIRONMENTAL AND SOCIAL MONITORING PLAN

9.1. INTRODUCTION

Environmental and Social Monitoring Plan outlines the specific measures and strategies to address Environmental audits are also usually carried out some few years after completion of the project. Monitoring involves the continuous or periodic review of mitigation activities to determine their effectiveness. As a result, during the course of the planned development, patterns in environmental deterioration or recovery can be identified, and previously unanticipated effects can be recognised and addressed. The impact, effectiveness, and applicability of any mitigating measures implemented are evaluated by these audits. Such audit procedures may be started by MWAUWASA, the project sponsor, to cover all of the project's activities. In order to monitor the project during its mobilisation, construction, commissioning, and demobilisation phases, the SSS contractor must create an Environmental and Social Monitoring Plan. The following lists the tasks that need to be completed and observed for each phase environmental and social factors related to the project's execution and management.

9.2. MONITORING DURING PRE-CONSTRUCTION PHASE

- If appointment of the Health, Safety and Environment (HSE) Officer is carried out and carries out his/her responsibility.
- If maintenance and checking of construction equipment ready for work at site and during the actual works;
- If training and sensitization of the staff on safety aspects and environmental issues is carried out;
- If HIV/AIDS, COVID-19 sensitization campaign have been planned and will actually be carried out;

9.3. MONITORING DURING CONSTRUCTION PHASE

The construction phase the monitoring will focus on:

- Implementation of mitigation measures.
- HIV/AIDS sensitization campaigns implementation.

- Occupational health and safety measures (conditions at materials storage places, borrow sites, equipment, personal protective equipment (PPE) implemented.

9.4. ENVIRONMENTAL AND SOCIAL MONITORING DURING OPERATION

MOW/MWAUWASA will be responsible for monitoring the environmental and social impacts after construction and handing over of the Simplified Sewerage System by the contractor. The District Environmental Specialist in Illemela and Nyamagana Districts' can be in-charge of the environmental and social monitoring of issues related with the Simplified Sewerage project, that is if the project is meeting all the statutory requirements.

Activities During Implementations of the Project :

- Continuous monitoring of odor emissions and implementation of odor control measures
- Holding regular community meetings and consultations to discuss operational issues and receive feedback.
- Establishing a grievance mechanism for residents to report concerns or complaints.
- Assessing impacts on local employment opportunities and income levels.
- Conducting socio-economic surveys to understand community perceptions and needs.
- Assessing potential health impacts from exposure to effluent or emissions.
- Providing health education and awareness programs to residents on hygiene and sanitation practices.
- Respond promptly to inquiries and concerns raised by residents and stakeholders.
- Conduct public meetings or workshops to discuss findings, solicit feedback, and address community concerns.

The detailed Environmental and Social Monitoring Plan is given in the table below for all the proposed works.

Table 18 Environmental and Social Monitoring Plan

Impact	Project Phase	Frequency	Target	Responsibility	Monitoring cost (US\$)
Soil Erosion	Construction	Weekly	Area of land left bare	MWAUWASA	2000
	Demobilization	Rainy season	Area of land left bare	MWAUWASA	1000
Health and Safety Risks	Construction	Quarterly Audits	Compliance with ESMP Plan	MWAUWASA	3000
Health and Sanitation Issues	Construction	Weekly	Sanitation waste generated and Management from workers' camps and Project areas	MWAUWASA	2000
Interference on daily activities/businesses as most of the works will be carried out adjacent to the businesses/residential areas.	Before and During Construction	Once during preparation	Sensitization of the business owners/Residential areas for the interference encountered	MWAUWASA	3000
Waste Generation and Management	Construction Phases	Weekly	Nil	MWAUWASA	2000

Impact	Project Phase	Frequency	Target	Responsibility	Monitoring cost (US\$)
Poor air quality from dust and emissions around the construction sites	Construction phase	Monthly	Emissions within the required standards. Refer to Environmental Management (Air Quality Standards) Regulations of 2007, G.N. 237, on first, second and fourth schedules for the limits and test methods.	MWAUWASA	3000
Traffic Movement and Public Utilities	Construction Phases	Once during initial préparations	No social service interruption	MWAUWASA	2000
Spread of diseases (HIV/AIDs, STIs or STDs)	Construction	Once every 3 months along the project cycle	Frequency of HIV/AIDs awareness programs, Number of attendees, Topics covered in program	MWAUWASA Nyamagana and Ilemela Municipals	5000
Social Equity Issues	Construction phases	Monthly	Achieve minimum of employment target for all Individuals regardless of their socio economic status	MWAUWASA Nyamagana and Ilemela Municipal	2000

Impact	Project Phase	Frequency	Target	Responsibility	Monitoring cost (US\$)
	Operation Phases	Monthly	Ensure that all community members, regardless of socio-economic status or location, have equitable access to the benefits of the sewerage system.	MWAUWASA Nyamgana and Ilemela Municipal	2000
Gender Based Violence in communities neighboring project	Construction	Monthly	Achieve maximum employment targets for women following Tanzania laws.	District Community Development Officer	–
Maintenance Challenges	Operation	Monthly	Ensure the Simplified sewerage system is designed and constructed to withstand operational demands and environmental conditions. Use durable materials and construction techniques that minimize vulnerabilities	MWAUWASA	5000

Impact	Project Phase	Frequency	Target	Responsibility	Monitoring cost (US\$)
Odor and Aesthetic Concern	Operation	In case of registered complaints	No offensive odour detected	MWAUWASA	Each incident of complaint

10. DECOMMISSIONING

10.1. INTRODUCTION

The last stage of a project's life cycle, including site selection, design, construction, commissioning, and operation for the duration of the design life, is decommissioning. Decommissioning is typically a procedure that includes tasks like managing the materials left over after a structure is removed and dismantling and demolishing it. The criteria for environmental health and safety for the general public, operating staff, and any consequences for the surrounding environment must be taken into account in all of these activities.

10.2. DECOMMISSIONING DURING CONSTRUCTION AND OPERATION PHASES

If construction activities and associated work cease prior to facility completion and commissioning (with no expectation of construction re-start) the constructions would need to be decommissioned in a manner. Mitigation measures will also be implemented where appropriate (e.g. to stabilization of exposed soils). The project, which involves constructing a simplified sewerage system, is not like a manufacturing facility or a mining operation, where decommissioning is applicable when minerals are diminished and modern technology or new processes gradually replace traditional methods of manufacturing some products. This streamlined sewerage project has a 30 to 40 year design life, depending on how the system is maintained. As a result, the primary focus of this project's decommissioning will be the dismantling of temporary buildings used throughout the construction stages. The primary task of decommissioning will be the site's cleanup in preparation for Mwauwasa's takeover. Therefore, the following steps will be involved in the decommissioning process.

10.2.1. WASTE MANAGEMENT AND DISPOSAL

There will probably be debris and waste generated during decommissioning, which needs to be handled, managed, and disposed of safely. The following wastes are anticipated to be produced: i) Material wastes, such as concrete wastes used in the construction of manholes and inspection chambers; ii) Containers and empty bottles; iii) Timber, plastics, and paper packaging; and iv) Used equipment parts. Instead of being disposed of, some of the materials would be better off being salvaged and recycled. Waste disposal will take into account the various types of waste generated

during decommissioning and strive for the secure handling of this waste. Techniques for recycling and reusing have the ability to lower the quantity of garbage that needs to be handled.

10.2.2. SHAPING AND GRADING

Along the Simplified sewer line, in all sand and borrow pits that will be used as a source of material for construction for the project, this will entail earthwork and top soil restorations. The following tasks will be completed: Site cleanup: The locations will be cleared of any trash and waste and properly disposed of. Site Stabilisation: Levelling, slope profiling, and proper compacting will be part of the actual job. Post-rehabilitation Care, Maintenance, and Monitoring: To guarantee successful site healing post-planning preventative maintenance works will be executed at the locations. In situations when the weather is unfavourable, this would entail replanting and watering; also, erosion control measures such stone pitching and gully formation management would be implemented.

10.2.3. REINSTATEMENT OF BORROW PITS

Restoration of any property that has been utilised, occupied, damaged, or destroyed by the works to as near its original state as feasible. Keep in mind that the TakingOver Certificate cannot be issued until the borrow pits have been reshaped and replanted to the satisfaction of the engineer; The reinstatement process involves replacing and spreading topsoil in borrow pits and areas used for storing or disposing of excess material; equally distributing all available soft material; iv) scarification along borrow area contours to prevent undue erosion when there is not enough soft material to cover the entire borrow area; Steep quarry walls and fencing are used to keep people and animals out of the borrow pit.

11. SUMMARY AND CONCLUSION

This ESMP report is prepared in compliance with the Environmental Management Act of 2004 and the Environmental Impact Assessment and Audit Regulations of 2005. Understanding the environmental settings of the project area is important in order to develop appropriate mitigation measures for potential impacts. As a result, extensive baseline studies have been conducted as part of this ESMP, which was designed to focus on the project area. Additionally, to guarantee that the generated data, analysis, and suggestions satisfy the necessary criteria, specialised specialists from several disciplines were enlisted to undertake these investigations. In summary, the project as a whole will enhance the environmental and health conditions of the communities of Ilemela and Nyamaga and fortify MWAUWASA's environmental planning, management, and monitoring capabilities. Effective operation and maintenance are necessary to achieve the full benefits to the environment. The Simplified Sewerage System will enhance the quality of Lake Victoria and lessen the pollution burden on surface water.

APPENDICES

Appendix I: References

Appendix II: Community meeting attendees and Minutes

Appendix III: Picture of the Site Visits

Appendix IV: Drawings

APPENDIX I: REFERENCES

NEMC (2002), General Environmental Impact Assessment Guidelines and Procedure 2.

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APPENDIX II: COMMUNITY MEETING ATTENDEES AND MINUTES

1) Bugarika

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO. 2 CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR THE SIMPLIFIED SEWER SYSTEMS IN 10 AREAS (IBUNGILO, PASIANI, KABUHOHO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

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	LUSIA MUKOMBE	B/ZAHANATI	MJUMBE	0784283689	[Signature]
	REGINA JOHN	MIEMBENI B'	MJUMBE	0674123517	[Signature]
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11	REGINA	ZANATI			
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09	Elizabeth Boaz	B/sakoni	Mwananchi	-	E. Boaz
10	Neema Joshua	B/sakoni	Mwananchi	0745160822	N. Joshua
11	Dafabu Kasimu	B/sakoni	Mwananchi	0714069715	D. Kasimu
12	Khadia Kulwa	B/sakoni	Mwananchi	0746643602	K. Kulwa
13	Septha Joseph	B/sakoni	Mwananchi	0692171348	S. Joseph
14	Benedicta Mgemela	B/sakoni	Mwananchi	0742294669	B. Mgemela
15	Paulina Mwangi	B/sakoni	Mwananchi	0753965200	P. Mwangi

HISA MIENZI
KATA YA PAMBA
HJILA MWANZA
Shirika

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO. 2 CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR THE SIMPLIFIED SEWER SYSTEMS IN 10 AREAS (IBUNGILO, PASIANZI, KABUHO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	Name/Ina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	NIKSON	ZAHARA	B	0764372228	
2	SCOR	Sateptu ZAHARA	B	0759-104646	
3	GROSS-SALIM		B	0769-71890	
4	BAKARI KANIM	BUGARIKA	MIAJIRIAMALI	0757782870	B-Kanim
5	PAWITA (RAYMOND)	BUGARIKA	MIAJIRIAMALI	0758257755	Raymond
6	LYDIA CHARLES	BUGARIKA mlimani	B	0711325198	L.C. mbaga
7	BABINASIMA	BUGARIKA mlimani	B	0746264155	Hm

KISA MTENDAJI WA KAMU

KATA YA PAMBA

WILA MWANZA

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO. 2 CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR THE SIMPLIFIED SEWER SYSTEMS IN 10 AREAS (IBUNGILO, PASIANZI, KABUHO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	Name/Ina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
(1)	PAULINA Samson	ZAHARA	B	0767 91 3413	me
(2)	SALOME MACHOHE	B/mlimani	B	0762682535	salome
(3)	happiness wambura	MLIMANI	B	- - -	S. wambura
(4)	ELIZABETH Jonathan	ZAHARA	B	0765-924065	E Jonathan
(5)	MARTINA EMMANUEL	ZAHARA		- - - - -	Emmanuel
(6)	MICHAEL EMMANUEL	ZAHARA	B	- - - - -	Emmanuel
(7)	TABU DAMADHANU	MIEMBENI A		0766733978	Damadhanu
(8)	Julius M. Kichanga	B/ZAHARA	-	0765123522	Julius
9	SEMI SIDDI	IGOGO	-	- - -	MI
10	Frank Miani	MIEMBENI A	B	0752309570	Frank
11	SAMUEL C. MASAGA	MIEMBENI B		0762052611	Samuel
12	ABDULLAH SHABAN	MIEMBENI B		0742296742	Abdullah
13	Johnasi Mawaga	KASIKARI	0754504432	0766 915337	Johnasi
14	SALIM			0766 915337	
15	ZACHARIA Mawaga	ZAHARA	-	0759072655	Zacharia

KISA MTENDAJI WA KAMU

KATA YA PAMBA

WILA MWANZA

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	JUMA NDEZI	MLIMANI		0785-759020	Juma
2	ELIAS PETER	BUGARIKA KASKAZI		0757742076	E. Peter
3	FERISA WILLIAM	BUGARIKA KASKAZI		0756416401	Ferisa
4	PETERIA G HIONA	BUGARIKA KASKAZI		0755 641767	Peteria
5	MALIAM MAGAWA	BUGARIKA KASKAZI		0745238892	M. Magawa
6	BENJAMIN JESSE	ZAHARA		0766377537	B. Jesse
7	REHMAN ELI	ZAHARA		0744425482	R. Eli
8	GASPAR	BUGARIKA KASKAZI		0748-624721	G. Gaspar
9	Flora Mabula	ZAHARA		075456894	Flora Mabula
10	Devota Joshua	B/sakoni		0768725884	D. Joshua
11	Salma Goldplay	B/sakoni		0803767029	S. Goldplay
12	Sarah Aaron	B/sakoni		07605621950	S. Aaron
13	Gema Malima	Mlimani		0767728924	G. Malima
14	Ismael Mariko	B/sakoni			I. Mariko
	KILIMAEWA	B/ZAHARA		0765659327	K. Kilimaewa

VISA M'ENDAJIWA KATA YA PAIMBA
MILIMANI

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	IBRAHIM MUYANDA	ZAHANATI	A/MUYANDA	0727202500	MUYANDA
2	BUNDALA JEREMIA	MIEMBENI 'A'	MWANANCHI	0747671948	B. JEREMIA
03	WAKULU	JOSEPH	MWANANCHI	0759788465	WAKULU
04	Emiliano daller	Bugarika sekoni	Mwananchi	0609688422	E. daller
05	Mwafuma Joseph	Bugarika sekoni	Mwananchi	0762551043	M. Joseph
06	Mwimwizi Mwananchi	Bugarika sekoni	Mwananchi	0749224975	M. Mwananchi
07	Rafuta Bernald	B/sekoni	Mwananchi	0759112214	R. Bernald
08	Rhoda Musa	B/sekoni	Mwananchi	0752930895	R. Musa
09	Estor Mwita	B/sekoni	Mwananchi	0747455975	E. Mwita
10	Ragina Ernest	B/sekoni	Mwananchi	0752442383	R. Ernest
11	Gituoi Ally	B/sekoni	Mwananchi	0749765132	G. Ally
12	Pendo Joseph	B/sekoni	Mwananchi	0762688567	P. Joseph
13	Raida Nicasi	B/sekoni	Mwananchi	0763268546	R. Nicasi
14	Tito Emmanuel	B/sekoni	Mwananchi	0759110402	T. Emmanuel
15	Elizabeth Samson	B/sekoni	Mwananchi	0759110402	E. Samson

VISA MIENDAJI WA K.M.F
KATA YA PAMBA
JWILA MWANZA

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	VISANT	SEASONI	B	07746485108	VISANT
2	JAMES FABIAN	ZAHANATI	B	0755019362	J. FABIAN
3	PILY H. WAWA	ZAHANATI	BUGARIKA	0755889107	P. WAWA
4	EMANUELIMBA	ZAHANATI	B	0753483530	E. IMBA
5	ELISIPHA KIMWANI	ZAHANATI	BUGARIKA	0 - - -	E. KIMWANI
6	SARONA MOTOULU	ZAHANATI	BUGARIKA	0 - - -	S. MOTOULU
7	ESTER KIMWANI	BUGARIKA	BUGARIKA	0766264837	E. KIMWANI
8	ESTER KIMWANI	BUGARIKA	BUGARIKA	0629440528	E. KIMWANI
9	JOSIPINA WILLIAM	BUGALIKI	BUGALIKI	0747987188	J. WILLIAM
10	ESTER KIMWANI	BUGALIKI	BUGALIKI	0744602467	E. KIMWANI
11	CHACHA STEFANO	BUGALIKI	BUGALIKI	0763959784	C. STEFANO
12	CARNEY KIMWANI	BUGALIKI	BUGALIKI	0601503225	C. KIMWANI
13	FELICIANO ALOYE	B/ZAHANATI	BALOC	0784839151	F. ALOYE
14	NEU Mwananchi	B/ZAHANATI		0742602671	N. Mwananchi
15	ANASTASIA FULU	B/KABULATINI		0758370913	A. FULU

VISA MIENDAJI WA K.M.F
KATA YA PAMBA
JWILA MWANZA

2) Ibungilo

MUHTASARI WA MKUTANO WA HADHARA KATA
YA IBUNGILO TAREHE 28/7/2024.

AGENDA:

KUINGUA KIKAO

UTAMBULISHO

MFUMO WA MAJI TAKA AWAMU YA PILI
KUFUNGA MKUTANO

AGENDA NO: 1: KUFUNGA KIKAO

Mwenye kiti wa Mkutano Mh. Diwani: Hussein Magera aliy
ngua mkutano saa 9:15 Alasili kwa kuomba usikivu na
kuchangia agenda zetu vizuri.

AGENDA NO: 2: UTAMBULISHO:

Utambulisho ulianza kuanzia meza kuwajitambuliisha
kwasimama kad Mwendaji wa kata Ibungilo, Mh. Diwani Ibungilo
Mwendaji wa Mitaa kata ya Ibungilo Pamoja na wengine wali
wa Mitaa kata ya Ibungilo. Pia walijitambuliisha viongozi
kutika MWAUWASA PMC.

AGENDA NO 3: MFUMO WA MAJI TAKA AWAMU YA PILI

Mwendaji wa kata ya Ibungilo alisimama na kuelezea
Mradi kama ilivyo kuwajalirapo pakea kama kutoka (MWAUWASA
Aielezea kama Mradi huu wa Mfumo wa maji taka uliorahishwa ku
Maeneo ya Ibungilo. Aielezea tena vizuri kuhusu zoezi hili la
Upembuzi pakiniifu na Usanifu kwenye maeneo ya mradi na
kutambuliisha kwa wananchi husika.

Mwendaji wa kata alitambuliisha Mh. Diwani kata ya
Ibungilo Diwani alieleza kuwa kufikia Malengo ya Tanzania
2025 kufikia utawala bora na kupita kanuni za Sheria na
Maendeleo ya Uchumi. Imara.

Diwani Kata ka Ibungilo Alimkaribisha Muwakilishi kutoka kwenye kampuni ya PMC Mwanawasi. Bi Cecilia Ugele alieleza tena vizuri kuhusu mradi huu kwamba ifikapo mwaka 2030 Mradi huu unatakiwa uwe umesha kamilika katika kata hii ya Ibungilo. Pia Aliomba Maoni kutoka kwa wananchi wote wa Mitaa kote 7 katika kata ka Ibungilo. Lakini pia aliomba/walomba kujua changamoto wanapata katika mradi huu kwa wale wote kwisha kupata Mradi huu. Lakini pia wafieleza kwa 2025 hili litapitishwa Mwezi wa 7/2024 hivyo 2025 la upembaji takinifu litaanza Mwatani (2025).

Wananchi wafieleza changamoto zao kuhusu mradi huu kwamba mfumo haujijitokeleza kwamba, Muundombinu sio mizuri Mara kwa Mara Mabamba ya majitaka husiba hadi kutafuta mtu kuzikua lakipia walomba awamu hii waboreshewe sasi.

Bi Cecilia Aliwaakazea kuhusu changamoto zao kwamba kuhusu swala zima la Mabamba kusiba ni uchafu wao na kutokana pamoja hivyo basi hualimbwa kuwa wasafi lakini pia tueleke kutupa viti vinaupo sababisha kusiba kwa chemba lizo.

AGENDA 4: KUFUNGA MKUTANO

Mwenyekiti alifunga Mkutano Mnamo saa 11:5 Jioni kwa kuwaishukuru wananchi pamoja na maza kuu kuendelea Mkutano Salama.

AFISA MTEWAJI KATA
KATA NGIL
S. 105
ILEMBA
2025

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
16	JULIUS BOUVENTURA	IBUNGILLO A	MJUMBE	0755 364875	Bouventura
17	FEDRICK MZISO	IBUNGILLO B	MJUMBE	0754801288	Fedricks
18	VICTOR KIMARO	IBUNGILLO A	MJUMBE	0684924021	Kimaro
19	JUMAANE RAMABHANT	IBUNGILLO B	MJUMBE	0784410310	Jumaane
20	VALENTINA GOWRA	IBUNGILLO A	MJUMBE	0765388543	V. Gowra
21	REMYATHA THEODOR	IBUNGILLO A	MJUMBE	0753242178	Remyatha
22	ALLISON MALINGUMA	IBUNGILLO A	MJUMBE	0655 813780	Allison
	MICHAEL KATINDI	IBUNGILLO A	MJUMBE	0754774976	Michael
23	HALIMA HAKUBU	IBUNGILLO B	MJUMBE	0747 690786	H. Hakubu
24	Kelonde Rashid	IBUNGILLO B.	MJUMBE	0763 856675	Rashid
25	Kasoga Rashidi	IBUNGILLO B.	MJUMBE	0781212563	K. Rashidi
26	SHAFIA SHABANI	IBUNGILLO B	MJUMBE	0766 - 317341	Shafia
27	SEDRICK ZUBERI	IBUNGILLO A	MJUMBE	0764744150	Sedricks
28	SHIDA KUTABU	IBUNGILLO B	MJUMBE	0765212760	Shida
29	WIMBEE JABBA	KABUHO	MJUMBE	0784254183	Wimbée

LEWELA - MWANZA
S. L. 07:53
KILIMAEWA
KATINDI
V. 14-1

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	CHRISTOPHER MUGETA	IBUNGILO 'B'	Mwali - Mtaa	0784965847	[Signature]
2	Abraham M. Mungu	IBUNGILO 'A'	Mwali - Mtaa	0752988172	[Signature]
3	Amos N. MANTIRI	Kyama'ro - Kaskiran	Mwali - Mtaa	0767988672	[Signature]
4	Amant MZUNGU	Kyama'ro - Kaskiran	Mwali - Mtaa	0767838930	[Signature]
5	HUSSEIN MAGERA	DIWANI - IBUNGILO		0754931781	[Signature]
6	BERNARDIA CHARLES	WEO - IBUNGILO	WEO	0765945516	[Signature]
7	WINESS ELIZA	MEO - IBUNGILO 'A'	MEO	0653935131	[Signature]
8	NELSON SWA	IBUNGILO 'A'	BALOZI	0762602720	[Signature]
9	ALEX MAFURA	IBUNGILO 'A'	BALOZI	0764874927	[Signature]
10	ARAFAT IBRAHIM	IBUNGILO 'A'	MJUMBE	0752246629	[Signature]
11	AISHA MHALE	IBUNGILO 'A'	MJUMBE	0615388887	[Signature]
12	MERCY KAFUZI	IBUNGILO 'A'	MJUMBE	0754035049	[Signature]
13	MESSO JUMANNE	IBUNGILO 'A'	MJUMBE	0688889070	[Signature]
14	JOSEPH MALOLE	IBUNGILO 'A'	MJUMBE	0763028900	[Signature]
15	HENRY M. KISHEKE	IBUNGILO 'B'	MEO	0759158626	[Signature]

AFISA MTENDAJI KATI
KATA YA IBUNGILO
S. L. 35
ILEBENI

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	Jana Kasurwa	IBUNGILO 'A'	MJUMBE	0784941857	[Signature]
2	Juma Ramadhani	IBUNGILO 'A'	BALOZI	0757938018	[Signature]
3	FLAVIAN KARONGO	IBUNGILO 'A'	MJUMBE	0765962859	[Signature]
4	AMON MINENE	IBUNGILO 'A'	MJUMBE	0742782285	[Signature]
5	GABRIEL PETER	IBUNGILO 'A'	BALOZI	0673084539	[Signature]
6	BERNARDIA MABATINI	IBUNGILO 'A'	MJUMBE	0754895296	[Signature]
7	MARIAM A. KIBABU	IBUNGILO 'A'	BALOZI	0753340023	[Signature]
8	LEONARDUS MABATINI	IBUNGILO 'A'	MJUMBE	0754402508	[Signature]
9	BEATRICE MACHUM	IBUNGILO 'A'	BALOZI	0765-831741	[Signature]
10	PRISCA JELAS	IBUNGILO 'A'	MJUMBE	0749-250899	[Signature]
11	MALEMBEKO MABATINI	IBUNGILO 'A'	MJUMBE	0626292126	[Signature]
12	EDWIN MALOLE	IBUNGILO 'A'	MJUMBE	0683551061	[Signature]
13	HELMELINDA KAZI	- II -	BALOZI	0754661731	[Signature]
14	GILBERT NALUSU	IBUNGILO 'A'	MJUMBE	0767635358	[Signature]
15	BAYA MOHAMMED	IBUNGILO 'A'	MJUMBE	0768624889	[Signature]

AFISA MTENDAJI KATI
KATA YA IBUNGILO
S. L. 35
ILEBENI

3) Igogo

MUKTASARI WA MKUTANO WA HADHARA WA MWANWASA

AGENDA ZA MKUTANO

1. UTAMBULISHO
2. KUFUNGA MKUTANO
3. UTAMBULISHO WA MRADI

AGENDA YA 1: UTAMBULISHO

Mwenyekiti aliwatambulisha wong'izi mbalimbali wa wa Senkaki na kumfika huko nafasi mtendaji wa kata kumataambulisha wageni kutoka Mamlaka ya Maji Safi na Ujafi wa Marungu (MWANWASA).

AGENDA YA 2: KUFUNGA MKUTANO

Mwenyekiti alifunga mkutano na kumabwisha wataalamu kutoka MWANWASA kwa ajili ya utambulisho wa mradi.

AGENDA YA 3: UTAMBULISHO WA MRADI

Wataalamu (Mhandisi na Afisa Mkuu wa Jami) walitoa maelezo juu ya Mradi, ambapo mradi unafahamika kama MRADI ALIORATHISHA WA MFUMO WA MAJI TAKA. Pamoja na utambulisho huo yafuatayo yalitokwa ufafanuzi kuhusu mradi.

1. Gharama ya kuunganishwa ni bora
2. Mradi utafika maeneo mbalimbali ya kata ya Koko kulingana na uhuzaji wa jami kwenye maeneo husika.
3. Magero ya kuunganishwa kwenye mradi ni:
 - (i) Kaya lazima iwe na ches bora (kila mwe na ofisini juu)
 - (ii) Kuna na mshindima ya maji
4. Faida za Mradi
 - (i) Hupunguza gharama za udhibiti wa maji taka.
 - (ii) Husaidia kuwaka marungu safi
 - (iii) Haisaidia utawaji wa ziwa Victoria ambalo ndio chanzo kikuu cha maji

5. Elimu kwa wananchi:
- (i) Wananchi kuelewa kutupa taka ngumu kwenye mifumo ili kuelewa kuziba kwa chemba.
 - (ii) Wananchi kutumia madi humu ili kureka maringira ya safi na kupiguzua gharama za uchiwaji yao.
 - (iii) Wananchi kuhakikisha hawandoi chujio kwa qili ya kuifanya mifumo kuwa endelevu.

~~Agenda~~ NA 4. Kufunara Mkurano
Mwenyekiti alifunga mkutano

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1	JOVITI - JOSEPHATH	MALULU	MWANANCHI	0694600495	JOVITI
2	BASHIRU KHANU	MALULU	MWANANCHI	0785506727	BASHIRU
3	PUDESIARA JONY	MALULU	MWANANCHI	0683599666	Pudesiara
4	Gedola - JOSEPHAT	MALULU	-11-	0694604594	Gedola
5	EMMANUEL - LAURENT	MALULU	RAIA	0625416025	Emmanuel
6	GODFREY - HOSEA	MALULU	RAIA	0763932831	Godfrey
7	Gaude chade	MALULU	-11-11-	0784244131	Charles
8	ZAKAYU SYLVESTER	MALULU	-11-11-	0732053068	Zakayu
9	SIMON A. GEWE	MALULU	RAIA	0782926177	Blewe
10	PEER WATIKHE	MALULU	MJUMBE	0752061157	Peer
11	MALEMI NEO	MALULU	MJUMBE	-11-	Malemi
12	DENGE SYLVESTER	MALULU	MJUMBE	-11-	Denge
13	THEO SENI	MALULU	MJUMBE	-11-	Theo
14	ZURDA SHABANI	MALULU	RAIA	-11-	Zurda
15	ZERDA RUDOLPH	MALULU	RAIA	0683981260	Zurda

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
16	A.B. MURRESERI	WBO - WBO (NBO)	WBO	0756733410	A.B. MURRESERI
17	JUNI M. KAPITA	MALULU	MSO	0683210546	JUNI M. KAPITA
18	JUNATH MASANI	BULIARALO	MJUMBE	0756725809	JUNATH MASANI
19	JARUFU NASORRO	MALULU	MWANANCHI	0758234119	JARUFU NASORRO
20	NYASO RABODHAY	MALULU	MWANANCHI	0695103698	NYASO RABODHAY
21	FATIMA JARUFU	MALULU	MWANANCHI	0743846131	FATIMA JARUFU
22	JARUFU SALUM	MALULU	MWANANCHI	0782529398	JARUFU SALUM
23	RAKARI FIKIRI	MALULU	MWANANCHI	0744490156	RAKARI FIKIRI
24	TEKLA PIRICK	MALULU	MWANANCHI	0763822699	TEKLA PIRICK
25	JOSEPH JOHN	MALULU	RAIA	-	JOSEPH JOHN
26	JUMA MUTIA	MALULU	RAIA	0765090533	JUMA MUTIA
27	MWAMBA FANDU	MALULU	MKAZI	0786990006	MWAMBA FANDU
28	ADY HIRAGEMBE	MALULU	MWANANCHI	0758597156	ADY HIRAGEMBE
29	ASHA LUKANYA	MALULU	11-11-	0756372522	ASHA LUKANYA
30	MUTIA KATHADA	MALULU	MKAZI	-	MUTIA KATHADA

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S/N	Name/Ina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	L. ABIMBAH	MALULU	MKAAZI	—	—
2	MRS. BUKANGA	MALULU	MKAAZI	—	—
3	MONICA SHARIS	MALULU	MKAAZI	—	—
4	NESTORY	GODFERET	—	—	—
5	SICILEJJI	—	—	—	—
6	LAURENT KAMUNDA	MALULU	MJASILIAHWA	—	—
7	SIMONI JUMA	MALULU	FUNDI	—	—
8	LAURENT	MALULU	MJASIRUMA	075966240	—
9	MAGEFIH	MALULU	—	075966240	—
10	SOPHIA AUDWI	MALULU	—	—	—
11	NEEMA FRANSSCO	MALULU	—	—	—
12	N. RAMBATHAN	MALULU	—	—	—
13	A. SHILANGIRO	MALULU	—	—	—
14	NTINA GOSUNIG	MALULU	MJUMBE	0766553686	—
15	EMMA MUC	MALULU	MJUMBE	—	—


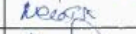







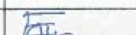
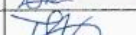

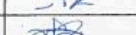


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S/N	Name/Ina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
16	MWAVITA	MALULU	MJUMBE	—	—
17	F. DAWA	MALULU	MJUMBE	0769752976	—
18	A. DALU	—	—	—	—
19	M. DANTA	—	—	—	—
20	L. KASIMBA	—	—	0753326665	—
21	E. MICHAEL	—	—	0762223077	—
22	N. MSTARHA	—	—	07—	—
23	KAZIMILI	—	—	0747535152	—
24	JOSEPH MATU	—	—	0742550325	—
25	J. PATRICK	—	—	0789429622	—
26	MARIN SYVA	—	—	0756442730	—
27	REHAN	—	—	—	—
28	THOMAS MUSA	MALULU	—	0765944568	—
29	M. YASIN	—	—	0767233400	—
30	MARIAM JOHN	—	—	0754941150	—

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
01	THOMAS LHASA	MALULU	M/KITI	0759832913	
2	MOSHI (SAID)	MALULU	-	0759010708	
03	Bertha D. Fredrick	Malulu	Baloz/Mungu	0656 051060	
04	MARYA MACHACE	MALULU	MWANANCHI	-	
05	Stephen Kwasigwa	-	nyumba	0753 88571	
06	Peter Mwasu	MALULU	nyumba	0765498496	
07	Kasim Rashid	malulu	mtanzania	-	
08	NESTOR I	GODFREY	-	-	
09	PASKALI MAGAMBA	MALULU	MWANANCHI	-	
	EMMANUEL JOHN	MALULU	MWANANCHI	07653491449	
11	HAMATI NASHAWI	MALULU	MWANANCHI	0745184972	
12	JOSEPH KESA	MALULU	MWANANCHI	-	
13	WEGESAMA	MALULU	MKULIMA	0768676032	
014	Zainabu A. Ali	MALULU	Baloz	0656 051060	
15	Mutiso Wason	KUENI B	MALULU	0752818259	

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
27	ZAMBELE AMELI	MALULU	BALOZI	0656051680	
28	BOTHATI Juma	MALULU	✓	0868837220	<i>[Signature]</i>
29	FABIAN ANDREA	MALULU	—	0687424158	<i>[Signature]</i>
30	COSTAS-ITWITA	MALULU	✓	0783008347	<i>[Signature]</i>
31	FINEK ANDREA	MALULU	MSUMBE	0758091434	<i>[Signature]</i>
32	CHARLES L. SAMUEL	MALULU	MWANANCHI	—	<i>[Signature]</i>
33	SELEMANO. MAMIANO	MALULU	MKAPA	0689988997	<i>[Signature]</i>
34	ALBERS	ONDOGA	M. DE	076829600	<i>[Signature]</i>
35	Elvayo Ledislaus	Kwimba	Mwasiti	0747464778	<i>[Signature]</i>
36	ADAM MADALI	MALULU	MWANANCHI	0767133400	<i>[Signature]</i>
37	RUKIA SERENISHA	MALULU	MWANANCHI	—	<i>[Signature]</i>
38	TAFU MUSA	MALULU	MWANANCHI	—	<i>[Signature]</i>
39	JORDAN PETER	MALULU	MWANANCHI	—	<i>[Signature]</i>
40	JULIUS JOHN	MALULU	MWANANCHI	0853238257	<i>[Signature]</i>

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[illegible]

4) Ilemela

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
01	Eng. MUSSA MAROB	ILEMELA MC	MUNICIPAL ENGINEER	0717-094812	[Signature]
02	Hellen A. John	ILEMELA MC	AG-MPPEO	0754-970939	[Signature]
03	Emilio Mwangi	ILEMELA MC	HEALTH SECRETARY	0764 177108	[Signature]
04	Juma Munga	ILEMELA MC	ENGINEER	0715 434559	[Signature]
05	GAUDENSIA VENANCE	WED-KIRUMBA (MC)	WED- KIRUMBA	0762 837216	[Signature]
06	KEENA I. PRUMBY	AG/ILEMELA MC	AG/WED-KITANGIRI	0852112715	[Signature]
07	PETRO Y. JOSEPH	ILEMELA MC	MWMSO	0744670049	[Signature]
8	BERNADITA CHARLES	WED IBUNGILLO WARD	WED-IBUNGILLO	0765946516	[Signature]
9	ALLY HASSAN	PASIANSI WARD	AG. WED	0762659860	[Signature]

5) Isamilo

MKUTANO WA HATHARA MIAA WA NYAKABUNGO B NA C
TARHE 27/05/2024

AGENDA ZA MKUTANO

01. KUFUNUUA MKUTANO
02. UTAMBULISHO
03. KUENDELEZA MFUMO WA MRADI MAJI TAKA KATIKA MTAU WA NYAKABUNGO NA MTAU WA NYAKABUNGO C
04. KUFUNUA MKUTANO

01. KUFUNUUA MKUTANO

- Mwenyekiti wa Mtaa Nyakabungo B Alifungua Mkutano Mnamo Saa 04:45 PM.

02. UTAMBULISHO

- Mwenyekiti wa Mkutano Mhugu Martin Mathias alieleza utambelewa kuendelea na kuruhusu Agenda zingine kuendelea.

03. KUENDELEZA MFUMO WA MRADI MAJI TAKA KATIKA MTAU WA NYAKABUNGO B NA MTAU WA NYAKABUNGO C

- Mwenyekiti kutoka MAAWASA alieleza hawana swala la mradi wa maji taka kwa kuwamba wanachi ya Mtaa wa Nyakabungo B na Mtaa wa Nyakabungo C. Kusema changamoto za Mradi huu kwa wanafidika na nini kwa Mradi huu na wanafidika hasara zipi kwa Mradi huu.

- CHANGAMOTO WANAKUMBANA NAZO KUU YA MRADI WA MAJI TAKA KUTOKA KWA WANACHU WA MTAU WA NYAKABUNGO C.

04. ITAKO.

- Waramba usamepeka Mradi wa Maji taka huyo wawazaji wanafidika kutoka elimu kwa wakina mama kwa kutunza Mradi.

Q1: CHACHA NYAKUCIERA MTAU WA NYAKABUNGU C

- Mradi unahitaji Maji
- Uchimbaji wa chuo s. mzuri shimo la chuo linafa fupi

Q2. Juma MUMBO

-

Q3 Renatusi mezarubi

- changamoto Mfumo huu wa Majitaka Ukiiziba nani wa Kuzibua?

Q4. Ngocho:

- kunafarda na changamoto
- klanakikwa kupewa Jemina wanainchi kuhusu mradi wa Majitaka Mfano klatu wanaweka pampaso hasabatiha Mfumo hui Kizibi
- Mradi huu ni mzuri

Q5. Bertha Jeremia

- Mradi Umekolea Lakini kunachangamoto ya Maji Safi hiyo Mradi hauwezi kuwa

Q6 Samuni wakala

- Hui mradi ni mradi bishara na s. Mradi
- klanakikwa Mara Mbili kwamba Majitaka wanakataki na Maji Safi wanakata bili Huyo ~~Ali~~ Aliamba apunguziwe bili

Q7: George Mwikumba

- Hui mradi ni mzuri lakini wakala na wazibaji ili mitaro ikiiziba wawepo kwa kitaribu kuzibua

Q8. Renatusi Petrol

Mradi ni mzuri

- Ukienda kumbe Mwakulwa Kuu Nahitaji Maji Safi Wanakataa la siwezi Kizibua Maji kizibi ninaadhiwa Maji taka.

09. Francis

- Meza kwani Mtaleta Maada ya kujadili na hamjaseema hii ni Mradi Utaletuwa Mtaani
- Kutambulisha Mradi na Matarajio

* Muwashaji amejibu Swali kuwa hauajaji kutambulisha Mradi bali wamekuja kufanya Upembuzi kwamba Maoni kwa walio na Mradi wa Maji taka naje? Wanaupafaika na huu Mradi?

* Pia kwa watakuwa na Mradi huu je? Wanauhitaji wa kufunguwa Maji taka? Hiiyo kama wanataka huu Mradi Uondokeo kwa Mtaa wa Nyakabungo B na Mtaa wa Nyakabungo C kufunguwa Mradi huu au wafunguwa kiasema kwa kutitika Maoni yao.

10. Klambura Chani

- Mradi ni mzuri
- lakini Wafungu Maji taka na Maji Safi

11. Richard Kibukiza

Ushauri Mradi umeshakuya usongekuya na Tesimio

10.

- Ngarama zake baada ya Kuunganishwa ni Tish

13. Ngacho

Huu Mradi ni Mkopo Maana baadaye kuanadai fedha.

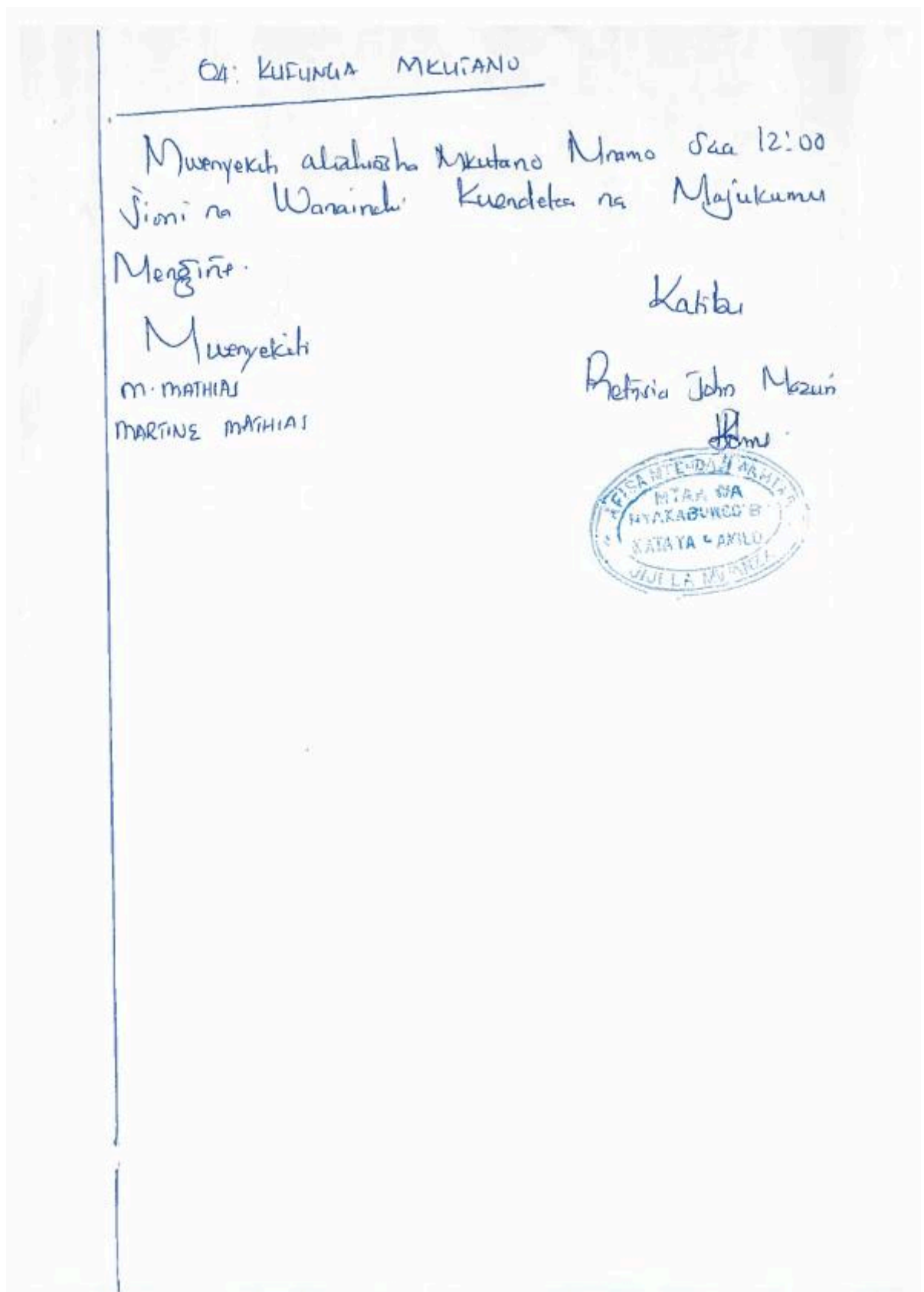
14. Bei ya Maji Safi kufunga Maji ni je kwa wale tayari wapo Kwenye Mfumo wa Maji taka gharu yake inakuwaje.

- Gharamu Maji Safi

* Ili wawe maji lazima kuwa na line ya bamba kubwa liwelimipiti kama bamba kubwa lipo karibu gharamu itakuwa Njaga nakama bamba kubwa lipo mbali gharamu inakuwa kubwa.

MAMBU

- 01: Mfumo wa maji safi utajingualini?
Maji yamekuwa hayabacherezi. Sehemu Nyingi wanunufaika wa maji taka wanatakiwa wendeleo kuita Suba Maji yeto wafikia...
- Mwanuwa unachukua takwimu kwa wanunufaika wa maji taka watapele maji safi
- 02: Hakuna Mawazo yanayokinzana Tukifanya Mazingira yeto kwa Sapi
- 03: Gharama za Uzibaji kwa Mradi wa Maji taka
Endapo Mfumo umeziba Unatakiwa Utoe taarifa pasipo kutafuta fundi Mwanuwa
Endapo itakokea changamoto hii ya kuziba kwa Mfumo Piga Simu no: 0800110028. Piga Bure.
- 04: Elimu- Tutatoa Elimu kabla ya Mradi huu habujiteta kwa Wanunufaika wa Mradi huu na chanzo cha Kuambuka kwa Mfumo huu ni Taalo za kike Lakini linawashika bali Elimu itatolewa kwa Wanunufaika na Mradi Uwe mzuri huiuchukie.
- 05: Ili Mradi huu Uwe mzuri tunatakiwa tuwe na Maji safi Endapo wewe upo na Mradi huu wa Maji taka kwenye ulipaji wa billi ~~hii~~ Tunataka kulingana na Matumizi ya Maji safi Endapo Umetumia Maji kwa billi ya 40000 na Mfumo wa Maji taka Uatakata Nusu
- 06: Gharama za kuunganisha Maji taka na Maji taka kwa watawatakasana wataunganishwa bure.
- 07: Ni lazima Mwanuwa wakifunga maji taka na maji safi yawepo.



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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
01	JOSEPH GENDU	NYAKABUNGO B	MJUMBE	0763727336	True
02	BHOKE BELEMA	NYAKABUNGO B	MJUMBE		BOKE
03	MATHAYO C. MASHAKA	LENJEELAY SEC	MWALIMU	0755079101	M. Mashaka
04	MUSSA J. KABUJA	NYAKABUNGO	MIKITI - MTA	0757566748	M. Kabuja
05	THOMAS MARWA	NYAKABUNGO C	MJUMBE	0789065337	M. Marwa
06	MURHISANT ALI	NATIONAL	MZEE MURRAY	078311137	M. Murray
7	SAMSON J. WABARE	NYAKABUNGO	MJUMBE	0752343139	M. Wabare
8	GEORGE MABANGA	NYAKABUNGO C	MJUMBE	0755919428	M. Mabanga
9	JOSEPH MABANGA	NYAKABUNGO C	MJUMBE	0782575227	M. Mabanga
10	JUMA KEYS	NYAKABUNGO C	MIKITI MTA	0784554568	M. Keys
11	SAMUEL PETER	NYAKABUNGO B	MJUMBE	0783192211	M. Peter
12	SHABANI SWALHE	MSIKITI	MIKITI MTA	0784554568	M. Swalhe
13	ADDUKADIRI (BABA)	S.D.A	MIKITI MTA	0683108228	M. Addukadiri
14	MERIMU GASPER	LAKE	MIKITI MTA	0763182783	M. Merimu
15	SAMBAI BERNARD	NYAKABUNGO	MJUMBE	075038754	M. Sambai

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
01	CELINA R. NICKSON	ISAMLO KASS B	MEO	0613499802	M. Nickson
02	ZALIAH MACHUMU	MSIKITI	MEO	0710302805	M. Machumu
03	VALETH MAYOGO	NATIONAL	MEO	0748047809	M. Mayogo
04	STELLA LAURENT	NYAKABUNGO C	MJUMBE	0751331120	M. Laurent
05	LILIANI JOSEPH	NYAKABUNGO C	MJUMBE	0784814963	M. Liliani
06	MAMBUU MWITA	ISAMLO KASS B	MJUMBE	0748445947	M. Mambu
07	KIVINA IMILY	NYAKABUNGO C	MJUMBE	0768188172	M. Kivina
08	REILISA J. MAZURI	NYAKABUNGO B	MEO/NYAKABUNGO	0784715521	M. Reilisa
09	SYLVESTER KASHA	NYAKABUNGO C	MJUMBE	0756-856134	M. Sylvester
10	POTAS PETER	NYAKABUNGO C	MJUMBE	0758333192	M. Potas
11	LYDIA MOKORORO	LAKE	MEO	0663118707	M. Lydia
12	ROBERT EDGAR	NYAKABUNGO C	MJUMBE	0788060413	M. Robert
13	SHABAN ALI	NYAKABUNGO C	MJUMBE	075911829	M. Shaban
14	ELIZABETH GREN	NYAKABUNGO B	MJUMBE	0765422227	M. Elizabeth
15	JUMA JOSEPH	NYAKABUNGO C	MJUMBE	0765801354	M. Juma
	ELIAS CHARLES	NYAKABUNGO B	MJUMBE	076101887	M. Elias
	NAIJIWA	NSEMWA	MJUMBE	0767227276	M. Najiwa
			MJUMBE	0761105062	M. [Signature]

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	BHOKE ALEX	NYAKABUNGO "B"	MJUMBE	0767515184	B-ALEX
2	PAULINA JOHN	NYAKABUNGO "B"	MJUMBE	0768094746	PAULINA
3	JOICE WAMBURA	NYAKABUNGO "C"	MJUMBE	055504002	JOICE
4	SAMUEL MALIBA	NYAKABUNGO "B"	MJUMBE	0675818382	SAMUEL
5	FLORENCE PETER	NYAKABUNGO "B"	MJUMBE	0699578663	FLORENCE
6	SAMUEL	RYOBA	MJUMBE	0769607165	SAMUEL
7	JAMES ODO	NYAKABUNGO B	MJUMBE	0783403127	JAMES
8	VALELIA SIBISI	NYAKABUNGO C	MJUMBE	0765872749	VALELIA
9	MOSHI MARCO	NYAKABUNGO B	MJUMBE	0762504989	MOSHI
10	TANO CHACHA	NYAKABUNGO B	MJUMBE	0784-376002	TANO
11	EMMANUEL KONGORA	NYAKABUNGO C	MJUMBE	0744465749	EMMANUEL
12	NASSORO-MENAI	NYAKABUNGO C	N. Nassoro	0744290140	N. Nassoro
13	AMETH SEROME	NYAKABUNGO C	A. Msumbe	0765867968	A. Serome
14	JUMA SAMSON	NYAKABUNGO C	MJUMBE		JUMA
15	ANASTAZIA GABRIEL	NYAKABUNGO C	MJUMBE	0683 656329	ANASTAZIA

NO	JINA	Mtaa	WADHIFA	SIMU	SAHIHI
1	DAVIDAS MUTEBAWA	NYAKABUNGO (C)	BALORI	0762353724	DAVIDAS
2	VESTINA JOHN	NYAKABUNGO C	MJUMBE	0763817663	VESTINA
3	PAULO CHARLES	NYAKABUNGO C	MJUMBE	0686053445	PAULO
4	BOKI MALWA	NYAKABUNGO C	MJUMBE		BOKI
5	SHIDA JUMA MATUKA	NYAKABUNGO B	MJUMBE	0715858717	SHIDA
6	PARAJA SAMUEL	NYAKABUNGO C	MJUMBE	0763266473	PARAJA
7	JACKSON MACHANYA	NYAKABUNGO C	MJUMBE	08887732	JACKSON
8	JOICE PAUL	NYAKABUNGO B	MJUMBE	0682870920	JOICE
9	AGNES ALEX	NYAKABUNGO B	MJUMBE	0767546919	AGNES
10	SOPHIA JASIA	NYAKABUNGO C	MJUMBE	0768626245	SOPHIA
11	AGNES CHACHA	NYAKABUNGO C	MJUMBE	0767984640	AGNES
12	NCHAGWA MWIKO	NYAKABUNGO C	MJUMBE	0753570454	NCHAGWA
13	CHARLES MPEMBE	NYAKABUNGO C	MJUMBE	0682-311557	CHARLES
14	MARIAM MAYA MABADI	NYAKABUNGO C	MJUMBE	07	MARIAM
15	MATONDO MALIMI MATIMBA	NYAKABUNGO C		0767629144	MATONDO
16	ADVENTINA CLAVERT	NYAKABUNGO C	MJUMBE	0763529423	ADVENTINA
17	ASHA RUTHA DITANI	NYAKABUNGO C	MJUMBE	0753330799	ASHA
18	TUMBINI MABONGU	NYAKABUNGO C	MJUMBE	0753330799	TUMBINI

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
16	STEWART OUESMO	NYAKABUNGO "C"	MJUMBE	0752576435	Stewart
17	MARGIN MABATI	NYAKABUNGO "B"	M/Kina	0684172000	M. Mabati
18	LEONIDA LAUREN	NYAKABUNGO "C"		0768725747	L.L.M
19	MARY NICOLAUS	NYAKABUNGO "C"	MJUMBE	0693421117	MARY
20	STEPHEN MAMU	NYABUNGO C		0628560779	Stephen
21	ROBECK RWEYA	NYABUNGO C			
22	SUZAN BAKE	NYABUNGO C		0756558205	SUZANA
23	LEONARD MAGERE	NYAKABUNGO C		0774797955	MAGERE
24	ROBI SAMSON	NYAKABUNGO C		0765152529	R
25	ROZI MALWA	NYAKABUNGO C		0759718186	ROZI
26	MATINDE NGULU	NYAKABUNGO C		0685975153	MATINDE
27	MANDIGE MWITA	NYAKABUNGO C		0714984622	MANDIGA
28	MAGESA SIONYO	NYAKABUNGO C			
29	THUSI SUMA	NYAKABUNGO C		6263498656	THUSI
30	CHRISTEL MAMBE	NYAKABUNGO "B"			CKM

31 AGNETHA KUSINDO NYAKABUNGO B MJUMBE
32 BOKE KORDO NYAKABUNGO C MJUMBE

JINA	MTAA	KADHIFA	Namba ya simu	Sahihi
RATIBU MARESA	NYAKABUNGO "C"	MJUMBE	0760642044	Ratibu
LYA SIBA RYOB	—	MJUMBE	—	—
ABUNA SKID	—	MJUMBE	0757849152	A.S
BERTHA JEREMIA	NYAKABUNGO B	MJUMBE	0759212655	Bertha
ERASIMUS METHOD	NYAKABUNGO C	MJUMBE	0758221614	E.M.utha
REHATUS PETRO	NYAKABUNGO B	MJUMBE	0784243664	R.P
SCOLASTIKA GREGORY	NYAKABUNGO C	MJUMBE	0762432952	Gregory
JENIFA AMLI	NYAKABUNGO C	MJUMBE	0766424203	Jenifa
ELIZABETH KAMBE	NYAKABUNGO C	MJUMBE	0767631769	E. Kambe
MATIRA MKONGWE	NYAKABUNGO C	MJUMBE	0755167455	MKONGWE
SILASI SELESTINI	NYAKABUNGO C	MJUMBE	0752752894	SILASI
OUESMO STEWART	NYAKABUNGO "C"	MJUMBE	0710756429	O. Stewart
ERASIMUS ISHONGA	NYAKABUNGO "B"	MJUMBE	0759957878	Isihonga
Emanuel Danieel	NYAKABUNGO "B"	MJUMBE	0757690910	Emanuel
MWANANZI GEORGE	NYAKABUNGO "C"	MJUMBE	0755393071	MWANANZI
MERINA SAMWELI	NYAKABUNGO "C"	MJUMBE		
ZUHURA SHABANI	NYAKABUNGO "C"	MJUMBE		
MATIKOKEBU	NYAKABUNGO "C"	MJUMBE	0659885064	

6) Kabuhoro

MUHTASARI WA MKUTANO WA WANANCHI MTAU
WA KABUHOHO "A" NA KABUHOHO "B" KA-
TA KIRUMBA JUU YA UTEKEWEZAJI W
MRADI WA MFIHO WA MAJI TAKA.
TAR 27/05/2024

AGENDA ZA MKUTANO

1. KUFUNGUA MKUTANO
2. UTAMBULISHO WA WAJUMBE
3. KUTAMBULISHA MRADI
4. KUPOKEA CHANGAMOTO NA MAONI
KUHUSU MRADI KUTOKA KWA WANANCHI.
5. KUFUNGA KIKAO

AGENDA NO 1. KUFUNGUA MKUTANO.
Mwenyekiti wa mtaa wa kabuhoro "A"
alipata nafasi ya kufungua mkutano
na kuwakaribisha viongozi na wanand
wote waliofika kutea mradi.

AGENDA NO 2. UTAMBULISHO.
Mteendaji wa kata aliwatambulisha
watendeji wote kutoka ofisi ya kat
na viongozi alio ambatana nao.

AGENDA NO 3. KUTAMBULISHA MRADI.
Mwezeshaji kutoka katika shirika la SEURECA
linafadhiwa na bank ya dunia
linatanya upembuzi yakinifu kwa ajiri y
Mradi wa maji taka katika mtaa wa

Adha ya gongwa la kipindupindu iliyokuwa inatwa kubwa na kwa hiyo Shirika kupitia barke y Dunia Ikaona ilete huu mradi ili kupunguza Magonjwa ya mlipuko

4. KUPDICEA CHANGAMOJO NA MAONI KUTOKA KWA WANANCHI KUTUSU MRADI WA MITA TAKA Wajumbe Mtaa, mitaa yetu ya Kabuhoro X na B' Ina changamoto ya maeneo maeneo ya kuthimba chod hivyo amepongeza kuletwa kwa mradi kwenye mitaa yetu utakuwa mikonbozi kwetu hivyo wanaamari uje mapema ili kunusuru hali hii.

Afisa X na kinamba - amepongeza kuletwa kwa mradi huu na kusema mitaa yetu itakuwa imepona na adha ya Magonjwa kipindupindu, Magonjwa ya matumbo na Magonjwa ya macho pia yatakuwa yameisha kupitia mradi huu.

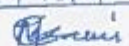
Wajumbe walio wengi wamepongeza sana mradi huu kuja na wanaomba uje haraka maana wanahitaji sana.


Mhe. Diwani pia alipongeza mradi huu kuja kwenye mtaa, mitaa yetu ya Kabuhoro X na B' na akauliza je wanga wamepokea mradi wananchi wote wali nyoosha mikono kwa kuonyesha wameuk bali mradi na wakapiga vigeregere vya furaha. Kwa pamoja nimesema mradi umepokelewa kwa furaha na wananchi na viongozi ya mitaa ya Kabuhoro X na B'

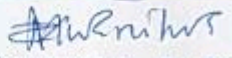
KUFUNGA KIKAO


Mwenyekiti alitunga kikao saa 12:00 jioni kwa kuwashukuru wajumbe wote na mwa kwa kikao kizuri cha kupokea mradi


KUPUNGA KIKAO
Mwenyekiti alitunga kikao saa 12:00 jio
kwa kushukuru wananchi na mwezesheji
kwa kikao kizuri cha kupokea msa
mzuri wa maji taka.

M/KIT

CHELOMWA M. MSAMI



KATI BU

CHRISTINA MWANGI
AFISI YA MAAJIMBA
MTAA WA KABUHO
KATA YA KIRUMBA
MANISPA YA UENYA
JAR: 27/05/2024

M/KIT 
STEVEN BAKARI



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STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO. 2 CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR THE SIMPLIFIED SEWER SYSTEMS IN 10 AREAS (IBUNGILO, PASIANSI, KABUHOHO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	CLEOPHAGE MAKUNGO	KABUHOHO A	MWANANACHI	0687505650	John
2	STEVEN NDIKUSA	KABUHOHO A	MWANANACHI	0765310005	Stew
3	ISUMBA THOMAS	KABUHOHO A	MWANANACHI	0746723976	Isamba
4	HAMZA SAIBI	KABUHOHO A	MWANANACHI	0745335349	Hamza
5	VEDASIR DAMIAN	KABUHOHO A	MWANANACHI	0766980202	Vedasir
6	BENISI JOHN	KABUHOHO A	MWANANACHI	0753520177	Benisi
7	GEDFRE FRANSO	KABUHOHO A	MWANANACHI	0759027041	Gedfre
8	DAWSON KIMWENGA	KABUHOHO A	MWANANACHI	0759086355	Dawson
9	SHADIA CHACHA MUSA	KABUHOHO A	MWANANACHI	0786009490	Shadia
10	WASHIDA MUSSA	KABUHOHO A	MWANANACHI	0755102737	Washida
11	ABDUL DUSHTHARAN	KABUHOHO A	MWANANACHI	0684989552	Abdul
12	ADELA MATAGILI	KABUHOHO A	MWANANACHI	0785402859	Adela
13	JENESTA F. KILIGISA	KABUHOHO A	MWANANACHI	0762876414	Jenesta
14	STUART FIDELIS	KABUHOHO A	MWANANACHI	0768565962	Stuart
15	Philbert Lugolema	KABUHOHO A	MWANANACHI	0767406450	Philbert

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
16	MATWI JUMA MATIKU	SONGAMBELE (B)	MJUMBE	0688404579	Matiku
17	JUMA JACOB	SONGAMBELE	MJUMBE	0752678929	Juma
18	VEDASIRUS DAMIAN	KABUHOHO (A)	MJUMBE	0766980202	Vedasir
19	WASHIDA MUSSA	KABUHOHO A	MJUMBE	0755102737	Washida
20	WILLIAM YAKOBO	KABUHOHO B	MJUMBE	0783606281	William
21	STEWART E. SANDE	KABUHOHO B	MJUMBE	0764902646	Stewart
22	RAMADHAN MUSSA	SONGAMBELE	BALOGI	0757538427	Ramadhan
23	THOMAS SOSTHENE	KABUHOHO B	MJUMBE	0756377416	Thomas
24	REUDICATUS NKEKE	- II -	MJUMBE	0678903667	Reudicatus
25	RACHEL HALILO	- II -	- II -	-	Rachel
26	DORO V. RUKATA	- II -	- II -	0768513822	Doro
27	MEKIRO MUGAMBA	- II - B	MWANANACHI	0682463434	Mekiro
28	JULIUS KATICA	- II - (C)	MWANANACHI	068182042	Julius
29	MABARAKA JAMES	- II -	- II -	0784343699	Mabaraka
30	FRANK SELEGATI	- II -	MWANANACHI	0764361861	Frank

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S/N	Name/Ina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
31	DOMICIA MUKAMA	KABUHOLO B	M/5/MTAA	0767817859	[Signature]
32	UMI SUMA MACHELE	KABUHOLO B	MWANAANCHI	0745494073	HAWA
33	HAWA SAIDI	KABUHOLO B	MWANAANCHI	0753025195	Hawa
34	GRACE KASABU	KABUHOLO B	MWANAANCHI	0767457591	[Signature]
35	ZUBEDATASAYI	KABUHOLO B	MWANAANCHI	0755424565	Z. W.
36	JABIRU M. MKAMBA	KABUHOLO B	MWANAANCHI	0763838859	Fm.
37	SABIRI LABONA	KABUHOLO B	MWANAANCHI	0658921247	[Signature]
38	DAVID SOLOMON	KABUHOLO B	MWANAANCHI	0762752972	[Signature]
39	SILVIA JOHN	KABUHOLO B	MWANAANCHI	076008219	[Signature]
40	ALICE KEMUNDA	KABUHOLO B	MWANAANCHI	0755736413	[Signature]
41	MECKILDA MCHULO	KABUHOLO B	MWANAANCHI	0742056733	Mchulo
42	ELIZABETH MCHULO	KABUHOLO B	MWANAANCHI	0753078174	Mchulo
43	PETER MATIAS	KABUHOLO B	MWANAANCHI	0762404111	P. Matias
44	IMELDA DADI	KABUHOLO B	MWANAANCHI	0688030459	[Signature]
45	EVOLUEN MCHULO	KABUHOLO B	MWANAANCHI	0767645532	[Signature]

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S/N	Name/Ina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
46	MARCO BWAYE	KABUHOLO B	MWANAANCHI	0746228735	[Signature]
47	MARIETA ANTHONY	KABUHOLO B	MWANAANCHI	0754251008	Marieta
48	SHABAN KABUGA	KABUHOLO B	MWANAANCHI		
49	SIKOLA KASALA	KABUHOLO B	MWANAANCHI	074956587	[Signature]
50	MZAKILI SAID	KABUHOLO B	MWANAANCHI	0748682415	M.S.
51	MAGDALENA KABU	KABUHOLO B	MWANAANCHI	075299832	[Signature]
52	AMINA SUMAINE	KABUHOLO B	MWANAANCHI	0752642564	[Signature]
53	ALI SIMA	KABUHOLO B	MWANAANCHI		[Signature]
54	LORENES STEPHANO	KABUHOLO B	MWANAANCHI	0765324557	[Signature]
55	GRECE MATIAS	KABUHOLO B	MWANAANCHI		[Signature]
56	HAWA SUMAINE	KABUHOLO B	MWANAANCHI	0752622150	Hawa
57	MWASENI BAROKA	KABUHOLO B	MWANAANCHI	0762775001	[Signature]
58	MWASENI BAROKA	KABUHOLO A	MWANAANCHI	0765819127	[Signature]

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
59	REVENA MICHU	KABUHO B	MWANANCHI	0685042480	Revena
60	ADVENTA SERENAW	KABUHO B	"	0763503704	Advent
61	ROBERT KAZAKI	KABUHO 'B'	"	07533378045	R. Kozaki
62	RAFAEL SITA	KABUHO B	"	0784026511	R. Sita
63	DAMIAN LAURENCE	KABUHO 'B'	"	0784116050	D. Laurence
64	CHARLES ANTON	KABUHO 'B'	MWANANCHI	0787331660	Charles
65	MKAMA NGINJA	KABUHO 'B'	"	0789065552	Mkama
66	GEORGE MUGISHA	KABUHO B	"	078944088	George
67	MUGISHA COSENTINO	KABUHO B	"	0788402827	MUGISHA
68	WINIFRIDA AUGUSTIN	KABUHO B	"	0764171806	Winifrida
69	JOSEPH MAMANGA	KABUHO B	"	0786013984	Joseph
70	AMOS BONIPHACE	KABUHO B	-11-	0769747361	Amos
71	AGNES B. RUTUNGO	KABUHO 'B'	-11-	0766474253	A. Boniface
72	ISMAILI ABDALLA	KABUHO B	-11-	0658977489	Ismaili
73	FAUSTIN GARRA	KABUHO - B	-11-	0764355708	Faustin

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
74	FRIDA PAULA	KABUHO 'B'	MWANANCHI	0767410604	FRIDA
75	JOHN MUKUMBO	KABUHO 'B'	MWANANCHI	0784240892	JOHN
76	MELESIANA PAUL	KABUHO 'B'	MWANANCHI	0699519060	M. Paul
77	MSAFIRI MAHENDRA	KABUHO 'B'	MWANANCHI	0747622702	M. Mahendha
78	KHASSANI YUNUSI	KABUHO B	MWANANCHI	0753350637	K. Yunusi
79	REHA MAJATA	KABUHO B	MWANANCHI	0784559490	R. Majata
80	REGI-JOHN	KABUHO B	MWANANCHI	0759237213	R. John
81	LOZI MWAU	KABUHO B	MWANANCHI	0712709026	Lozi
82	PHILIP BONIPHACE	KABUHO 'B'	MWANANCHI	0758955225	Philip
83	MARIKA KIBASI	KABUHO - B'	MWANANCHI	0758055473	M. Kibasi
84	NATHIA HABIBU	KABUHO 'B'	MWANANCHI	0764106393	Nathia
85	ZENASI ABIDA	KABUHO B	MWANZA	0747792961	Zenasi
86	NEEMA MAMUEL	KABUHO B	MWANZA		NEEMAUEL
87	SILORA KABASA	KABUHO B	MWANANCHI	0769741507	Silora
88	MARLA NGALIZI	KABUHO B	MWANANCHI		Marla

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S/N	Name/Ina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
01	WESSA Juma	KABUHO ABB	M/ DIKANI	0753376899	
02	GAUDENSIA VEDANCE	WE-KIRUMBA/IMC	WE-KIRUMBA	0762837210	
03	LAMBAPE PETE	KABUHO	M/ Mwenye Gwamale	075468420	
04	STEVEN BAKARI	KABUHO B	M/KITI MTA	0754826996	
05	RICHARD C. MUNJO	KABUHO B	M/KITI MTA	075552255	
06	CHILOMWA MSAWA	M/KITI KABUHO A	M/KITI KABUHO A		
07	LUCIA PETER	IFU-KIRUMBA	IFU-KIRUMBA	076959424	
08	Adeline J. Butholone	Kiyungi	Med	0756351230	
09	RESVOCATUS C. MABARI	M/ MTA B	M/ MTA	0789958190	
10	Nyirach Frank	KIRUMBA WAD	CEO	0684429436	
11	Fredrick Gilbert	MED-KIRUMBA	MED	0763923305	
12	Veronica Masau	AFISA AFYA-KIRUMBA	AFISA AFYA	076283471	
13	CHILOMWA MSAWA	KABUHO A	M/KITI KABUHO A	0756045804	
14	ASIFA AHMADA	KABUHO A	M/ MTA	0788686400	
15	CHRISTINA B. MWAJIBU	KABUHO A	M/ MTA	06887097909	

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S/N	Name/Ina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	KILSON MWAJIBU	KABUHO A	M/ MTA	0785609080	
2	RAJABU INAJALU	—	M/ MTA	0764565050	
3	IBRAHIM AMARA	—	M/ MTA	0788734117	
4	ASIFA AHMADA	KABUHO	M/ MTA	0788686400	
5	DEUS TOBOLA	—	M/ MTA	0757498224	
6	HUSNA ABDUKARIM	KABUHO	M/ MTA	0769728203	
7	ASHA XSIDUSISI	KABUHO	M/ MTA		
8	MARIA GAWI	KABUHO A	M/ MTA		
9	SIKORASITIKA KIRUMBA	—	—	—	
10	SUWALIMU HAMZA	KABUHO A	M/ MTA		
11	BURUNDINA JDI	KABUHO A	M/ MTA	0787702222	
12	FATIMA JUMA	KABUHO B	M/ MTA	0783571012	
13	KARUME SAIBU	KABUHO A	M/ MTA		
14	SIKOLA KASALA	KABUHO B	M/ MTA	0764956587	
15	MARIAM MZAKILI	KABUHO A	M/ MTA	0748682415	

S/N	Name/Ina	Institution/Stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
16	DUNIA BONIFACE	KABUHHORO B	MWANANCHI	0767965677	DL
17	KENETH SEBASTIAN	KABUHHORO B	MWANANCHI	0765679891	SEBASTIAN
18	BERTHA MAGDO	KABUHHORO B	MWANANCHI	0765186508	B.M
17	MARY MUSAHA	11	11	0792246921	M. MUSAHA
20	AMMERI OMARI	11	B	0754526885	A. OMARI
24	MATHIAS CHABA	11	B	0753479500	MChapa
22	LEGISIA KITAKUBWA	11	B	0784 121662	Kitakubwa
23	MNATHILI SADIKI	11	B	0684849361	M. Sadiki
26	STELA MATATA	11	B	079-605714	Stela
27	KIMIZYA MISOLOLO	11	B	0765145007	Kimiza
26	MAYENGIEDA MAMOLA	11	B	0752909936	Mamola
27	SITIVUHI AMIS	11	B	0758 708972	Sitivuhi
28	ALISHA KINABO	11	A	07535-73990	Akinaboy
28	ASHA ABDALLAH	11	B	0752498216	Ashabari
29	MASUMBUKO KESAPIKE	11	B	0742088305	MASUMBUKO

S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Washifa	Contacts/Phone Simu	Signature Sahihi
31	AISHA ABDALLAH	KABUHHORO A	MWANANCHI	0752498226	A. Shapah
32	ASITERIA NIAKUMBO	KABUHHORO A	MWANANCHI	-	ASITERIA NIAKUMBO
33	BHATI NIKO	KABUHHORO A	MWANANCHI	0746861906	Bn
34	MARIAM IBRAHIM	KABUHHORO A	MWANANCHI	0766698452	M. IBRAHIM
35	Ka MUSSA	KABUHHORO A	MWANANCHI	0768992435	M. MUSSA
36	Moses JACOBO	KABUHHORO A	MWANANCHI	0757636064	M. Jacobo
37	ABDIA ABEY	KABUHHORO A	MWANANCHI	- - -	Abey
38	LORENES STEPHANO	KABUHHORO B	MWANANCHI	0768324557	L. Stepano
39	ROCHAB MICAELICA	KABUHHORO A	MWANANCHI	0758952508	R. Micaelica
40	WAGHINGTON HASSANO	KABUHHORO A	MWANANCHI	0756973324	W. Hassano
41	Johari Ramadhan	KABUHHORO A	MWANANCHI	0784411596	J.R
42	COSTANSIA GUMBA	KABUHHORO A	MWANANCHI	0765605639	C. Gumba

[illegible][illegible]

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO. 2 CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR THE SIMPLIFIED SEWER SYSTEMS IN 10 AREAS (IBUNGILO, PASIANSI, KABUHO, KITANGIRI, KILIMAEWA, ISAMILLO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	ALICIA PAUL	KABUHO 'A'	MJUMBE	0756354612	ALICIA PAUL
2	DORCAS KASIMBA	KABUHO 'A'	-	0620752515	DORCAS
3	MWAMINI MNYAGA	KABUHO 'A'	-	0784516402	MWAMINI
4	LETISIAPPELEKA	KABUHO 'A'	-	0744491434	L.P
5	POTUNTO FRUSITH	KABUHO 'A'	-	0753710149	POTUNTO
6	HASNA HAMIS	KABUHO 'A'	-	0755326004	HUSSEINI
7	HUSEIN HAMIS KIMBATA	KABUHO 'A'	-	-	HUSSEINI
8	MARTIN FASELIN	KABUHO 'A'	-	0755808153	MARTIN
9	SEILIA	KABUHO 'A'	-	0753734870	SEILIA
10	SABIKI KALOKOLA	KABUHO 'A'	MJUMBE	0756772010	SABIKI
11	SELINA PAUL	KABUHO 'A'	MJUMBE	0683527450	SELINA

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
11	STEPHEN M. KAMBO	KABUHO 'B'	MWANAANCHI	0753275290	STEPHEN
12	SPECIOZA PASCHALI	KABUHO 'B'	MWANAANCHI	0744959334	SPECIOZA
13	CHRISTOPHER MBOYA	KABUHO 'B'	MJUMBE	0764774083	CHR. M.
14	NGELIA SEBASTIANI	KABUHO 'B'	MWANAANCHI	0757320702	N.S.
15	JUMANJE SELWANI	KABUHO 'B'	MWANAANCHI	0753331380	J.S.
16	HEPINES PAUL	KABUHO 'B'	MWANAANCHI	0759609459	H.P.

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	DENSI JOHN	KABUHO A	MJUMBE	0753520177	[Signature]
2	MICHAEL L. L. L.	KABUHO A	MJUMBE	0753645999	[Signature]
3	CLIFFORD BITHMO	KABUHO A	MJUMBE	0768850583	[Signature]
4	MICHAEL WIMBI	KABUHO A	MJUMBE	0768747269	[Signature]
5	SAULO N. PHILIP	KABUHO A	MJUMBE	0754-057315	[Signature]
6	DENIS Z. BALUKINA	KABUHO A	MJUMBE	0756293014	[Signature]
7	AHMAD SAID	KABUHO	—	0789465607	[Signature]
8	ISSA H. MSITA	KABUHO	—	0753-336370	[Signature]
9	STEPHEN M. KAMBO	KABUHO B	—	0743275290	[Signature]
10	ANTONIA PAULO	KABUHO A	—	0786914000	[Signature]
11	WIMFRIDA CHARLES	KABUHO A	—	0758-252362	[Signature]
12	LEOCADIA DAVID	KABUHO A	—	0753965513	[Signature]
13	ROBERT LAUREN	KABUHO A	—	0755382399	[Signature]
14	NOELA N. N. N.	KABUHO A	—	0769194175	[Signature]
15	REBEKAH SIMON	KABUHO A	—	—	[Signature]

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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16	ADIVULA RICHARD	KABUHO A	MJUMBE	0742665482	[Signature]
17	IMERDA BONIFACE	KABUHO A	MJUMBE	0628107836	[Signature]
18	SELINIA JOSEPH	KABUHO A	MJUMBE	0752068142	[Signature]
19	REMITEDI JOSEPH	KABUHO A	MJUMBE	0686378086	[Signature]
20	RAMABHANI	KABUHO A	MJUMBE	0763835887	[Signature]
21	PETER M. M.	KABUHO A	MJUMBE	0752112958	[Signature]
22	RICHARD D. D.	KABUHO A	MJUMBE	0683808083	[Signature]
23	LEKADI A. A.	—	MJUMBE	0692133204	[Signature]
24	STUPAF - FIDEL	KABUHO	MJUMBE	0768565962	[Signature]
25	KESSELI M. M.	KABUHO	MJUMBE	0765492483	[Signature]
26	ALISTIDES - FERRA	KABUHO	MJUMBE	0786045073	[Signature]
27	EXPERANSIA - BISEKO	KABUHO	MJUMBE	0755106354	[Signature]
28	HARUNA H. BASHIR	KABUHO	—	0772263390	[Signature]
29	HUSSEIN H. BASHIR	KABUHO	—	0675328604	[Signature]

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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2	MUSSEIN IBRAHIM	KABUHORO	MJUMBE	0758497802	MUSSEIN
3	HYAMITWANO DWALE	KABUHORO	MJUMBE	0755643816	M. M.
7	FAUDHA JUMA	KABUHORO	MJUMBE	0682836062	B. M.
71	BIRUMOMAFULU	KABUHORO	MJUMBE		
74	ISIMILATA ANDREA	KABUHORO A	MJUMBE	0753864506	Andrea
75	FRUZA BERNARD	KABUHORO A	MJUMBE	0763817166	FRUZA
76	JAWADU HABIBU	KABUHORO A	MJUMBE	0748029343	JAWADU
77	TUMAINI MUSSA	KABUHORO A	MJUMBE		
78	KASIMU RASHIDI	KABUHORO A	MJUMBE		
79	ASELLA PHILBERT	KABUHORO A	MJUMBE	0763 004635	Philbert
80	SIELA PETER	KABUHORO A	MJUMBE		
81	MOSES JALDO	KABUHORO A	MJUMBE	0753 525233	Moses
82	SWITIBERI MAFUQU	KABUHORO A	MJUMBE		ST.
83	Shabani Mumbi	KABUHORO A	MJUMBE	0763461857	Shabani
84	SPECIOZA LINDA	KABUHORO A	MJUMBE	0754769299	Specioza
	CIRESI Ladislas	KABUHORO A	MJUMBE	0756-307331	Ciresi

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
41	JOSHUA S. MSHWA	KABUHORO A	MWANAANCHI - Mjumba	0784 526 549	J.S.
42	STEWART S. MASHAUA	KABUHORO A	MJUMBE	0620 0460 24	S.S.
43	HADIKA MASHAKALA	KABUHORO A	MJUMBE	0784 354003	Hadi
44	DAWSON KIPULANGA	KABUHORO A	MJUMBE	0757 4863 58	Dawson
45	JOSEPH EULACS	KABUHORO A	MJUMBE	0759 027011	Joseph
46	MATEO	KABUHORO A	MJUMBE	0783 799873	Mateo
47	RAMAZENI	KABUHORO A	MJUMBE	0763 835882	Ramazi
48	DAMAS MJUNI	KABUHORO (A)	MJUMBE	0767 68722	Damas
49	TIO DOLA	KABUHORO A	MJUMBE	0752 13857	Tio
50	KAMUD KAKOMILE	KABUHORO A	MJUMBE	0755 71 2906	Kamud
51	KESI MAFWELE	KABUHORO A	MJUMBE	0765 219 24 33	Kesi
52	SAMIRI RASHIDI	KABUHORO A	MJUMBE	0766-455551	Samiri
53	JAWADI JULIAS	KABUHORO A	MJUMBE	0693 98 55 45	Jawadi
54	CHRISTOPHER DANIEL	KABUHORO A	MJUMBE	0755335130	Christopher
55	BASHIKWA HUSEIN	KABUHORO A	MJUMBE	0693 245424	Bashikwa

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
60	AGNES KAREUGU	KABUHOHO A	MJUMBE	0654 827164	Agnes Karegu
61	FATIUMA DEBATI	KABUHOHO A	MJUMBE	076716 9859	F. Debat
62	ANNA BAGWEL	KABUHOHO A	MJUMBE	0678783457	AB
63	SITININI MWAHA	KABUHOHO A	MJUMBE		SM
64	ZAWADI ABALA	KABUHOHO A	MJUMBE	0747792961	ZA
65	MIAMTONGO NTILUMBA	KABUHOHO A	MJUMBE	0750915817	NT
66	SITELA PETRO	KABUHOHO A	MJUMBE	0755093934	ST
67	MERY KIMBA	KABUHOHO A	MJUMBE		MK
68	NARIFA PRIBU	KABUHOHO A	MJUMBE	0764106393	NA
69	ANJERINA SWAKALA	KABUHOHO A	MJUMBE	078454920	AS
70	JACKSONI MALILA	KABUHOHO A	MJUMBE	0759909027	JM
71	VINIFRIDA CHARLES	KABUHOHO A	MJUMBE	0758262762	VC
72	ANTONIA PAULO	KABUHOHO A	MJUMBE	0786914000	AP
73	SOPHIA KADUZI	KABUHOHO A	MJUMBE	0750575800	S.K

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
74	IRUPHINA ANTONY	KABUHOHO A	Geni Mjumba	0757869628	IRUPHINA
75	ASATI - RUMABWANA	II - A	Mjumba	0753520960	A. R -
76	MATHEO MAMBA	II - A	M -	0758269045	M -
77	MAMBA ABENILA	II - A	M -	0755289791	M. A.
78	BOICE MASHAKA	II - A	M -	0756243657	B. M -
79	Shirazi Sulemani	II - A	M -	0784484663	Shirazi
80	INDA - KASORY	II - A	Mjumba	0762409557	INDA
81	REGINA NURU	II - A	M -	0769157728	R -
82	HUSNA ABDUKADIR	II - A	Mjumba	0769752003	HUSNA
83	KATEGESHO MWAMBA	II - A	M -	0752677978	K. T -
84	NASTATI ZAI	II - A	M -	0757729821	NASTATI
85	CH. CHA. SPIANI	II - A	-	0748031761	CH. CHA. SPIANI
86	MILEMBE ZEFARI	II - A	-	0785808097	MILEMBE
87	RISUCCATU SEKURU	II - A	-	074231170	RISUCCATU

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S/N	Name/Ina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
31	REMIGUSI JALISA	KABUHOLO (A)	MWANANCHI	0768129710	[Signature]
32	ANTHONY	GRATIAT	MWANANCHI	0786281475	[Signature]
33	FRANK MAKAMBA	KABUHOLO (A)	MWANANCHI	0768-368894	[Signature]
34	SINDA KASIM	KABUHOLO (A)	MWANANCHI		[Signature]
35	SOSTHOMES	KABUHOLO (A)	MWANANCHI		[Signature]
36	SOFIA MASISE	KABUHOLO (A)	MWANANCHI		[Signature]
37	TUNALI MUSSA	KABUHOLO (A)	MWANANCHI	0742 041041	[Signature]
38	PAULO VEDASTO	KABUHOLO (A)	MWANANCHI	078821 02 03	[Signature]
39	STEPHANIO	KABUHOLO	MWANANCHI	0782 848151	[Signature]

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S/N	Name/Ina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
16	MARXO KILANGA	KABUHOLO (A)	MWANANCHI	0743889503	[Signature]
17	PABENSIMAM	KABUHOLO (A)	MWANANCHI	0762256515	[Signature]
18	BAHATI SIKUYI	KABUHOLO A	BALAZI	0683539155	[Signature]
19	ABDULLI-SHABANI	KABUHOLO A	MWANANCHI	0762375517	[Signature]
20	ALSHAKINABO	KABUHOLO A	MWANANCHI	075-35-73990	[Signature]
21	ANA - KABURA	KABUHOLO - A	MWANANCHI	0747428963	[Signature]
22	HAMIS BABILE	KABUHOLO - A	MWANANCHI	0754-089131	[Signature]
23	MARXAM OMAR	KABUHOLO - A	MWANANCHI	0754-400620	[Signature]
24	MWATINDI JUMA	KABUHOLO - A	MWANANCHI	0755162253	[Signature]
25	MARIKO MITAS	KABUHOLO - A	MWANANCHI	0755652730	[Signature]
26	ER. MURU VEDASTO	KABUHOLO A	MWANANCHI	0768 041041	[Signature]
27	SOPHIA EMIRY	KABUHOLO A	MT WII	0755-27217	[Signature]
28	LOVENEE STEPHANO	KABUHOLO A	MWANANCHI	0765324557	[Signature]
29	ANUR AIFA KOMBIA	KABUHOLO	MWANANCHI	0752-109557	[Signature]
30	MASUMBU KASARARE	KABUHOLO	MWANANCHI	0742080305	[Signature]

7) Kitangiri

① MUHTASARI WA MKUTANO WA WANANUZI
MTAA WA MEDICAL RESEARCH, KILELENI NA
KIFANGIRI KATI JUU YA UTEKELEZWASI WA
MRADI WA MFUMO WA MASI TAKA. TAR 27/05/2

⇒ AGENDA ZA MKUTANO

01. KUFUNGUZA MKUTANO
02. UTAMBULISHO
03. KUTAMBULISHA MRADI
04. KUPOKEA CHANGAMATO NA MAONI KOTUSU
MASI TAKA.
05. KUFUNGA MKUTANO.

AGENDA NO1: KUFUNGUZA MKUTANO

Mwenyekiti alifunga mkutano muda wa saa 9:00
Mchana na kuwashukuru wote waliowesha kufika
kwenye mkutano na kuomba ushinkiano ili kuweza
kufanikisha mkutano huo.

AGENDA NO2: UTAMBULISHO.

Katibu aliongoza utambulisho kwa kutambuliisha
meza kuu ambapo ni kamati ya maendeleo kati
Serikali za mitaa pamoja na wageni kutoka MWAU
pamoja na kampuni ya IDA, pamoja WILALAX (SUREK

① AGENDA NO 3: KUTAMBULISHA MRADI

Mwazeshaji alitambulisha mradi rasmi wa mfumo wa maji taka ambao mradi huo unashirikiana Pamoja na MWAUWASA Pamoja na mashinika ambao ni SEUREKA na NETWEKA ambao mradi huo mfumo huo serikali imeona mradi huo uweze kupita kwenye mitaa kutokana na mah ya binadamu ni mazingira kwa salama huya mf wa maji taka ni moja ya huduma ambayo inaweza kufanya mazingira kofi kwa mazi na huduma hii ambao ni mradi wa mfumo wa maji taka itapitishwa kwa wananchi bwa Wananchi wa itaa wa medical research, kileleni pa na kitangani walikwabi mradi wa mfumo wa maji taka kwa asilimia 100%

⇒ ~~CHA~~

AGENDA NO 4: KUPOKEA CHANGAMOTO NA MAON KUHUSU MAJI TAKA.

• CHANGAMOTO.

① Miondombino mibovu huyo wanandi: wa mtaa wa kitangani kati wa meomba kuwera kutongonea miondombino ya barabara maeneo ya mtaa yen minuko. Pia mtaa wa kileleni miondombino ya barabara ni mibovu.

② Uyumba vingi mtaa hawajionganisha kwenye m wa maji safi kuwa ya mjumbe ameomba wanand

Wawaze kuunganishwa kwenye mfumo wa majisafi ili uwe raiisi kwa mwaumaza kuwaze kusimamia mradi huu wa mfumo wa maji taka.

(ii) Maoni ya jumla ameomba mradi huu uweze kufika kwa wakati maana wamekubali mradi uweze kufika mapema.

AGENDA NOJ: KUFUNGA MKUTANO.

Mwenyekiti wa mkutano alitaishe mkutano muda wa saa 10:00 jioni kwa kuwashukuru wajumbe wote waliwaza kufika kwenye mkutano huu na kuwaza kuhiriki vema kwenye mkutano huu wa kutangaza mradi wa mfumo wa maji taka na kuharisha rasmi mkutano.


MWENYEKITI



KATIBU
P. M. M. 2024.

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	HABIBI RASHIDI	MEDICAL RESEARCH	MUSO	0621636684	[Signature]
2	Patricia Masinga	Medical Research	M/Kiti	0752398446	[Signature]
3	SAID H LUKONGE	KITANGIRI-KATI	M/KITI	0786 399727	[Signature]
4	PRULINE BROWN	MEDICAL RESEARCH	MUSO	0782425900	[Signature]
5	MSUNGA MOLANDU	KILELENI		0743498259	[Signature]
6	MSUNGA R. LUTIANI	MEDICAL	MUSO	0753741267	[Signature]
7	TWABU	PASIANZI	TWABU	0769661434	[Signature]
8	SAIKI	PASIANZI	Pas	0710293550	[Signature]
9	Eluka Joh	Kilangiri	Musungu	0755466615	[Signature]
10	GHAZALI ABDU	Kilangiri Kali	Musungu	0794224-753	[Signature]
11	WILLIAM FRANCIS	KILELENI	Kiti/Kiti	0753609332	[Signature]
12	HAMIS KASSIKA	KILELENI	Pharmacist	0754-302407	[Signature]
13	OLIVER ALBING	KITANGIRI - KATI	MUSO	0754-533097	[Signature]
14	DICKSON MUE	KITI/A	Musungu	0742 998444	[Signature]
15	MKAMA-B	MEDICAL	Musungu	0753575674	[Signature]

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO. 2 CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR THE SIMPLIFIED SEWER SYSTEMS IN 10 AREAS (IBUNGILO, PASIANSI, KABUHO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
16	Severin	Medical	Mjumba	6682972313	[Signature]
17	Frank Elango	Medical	Mjumba	-	[Signature]
18	Juma Athuman	Medical	Mjumba	-	[Signature]
19	HASSAN SPOLU	MEDICAL	Mjumba	0744288756	[Signature]
20	TUMAINI MACHA	ETHO	AFISA AFPA IGATA	0717-371444	[Signature]
21	MARY FRANCES	Natice	MJUMBE	0704 871994	M. Frances
22	DANIEL BAMBIA	Medical	Mjumba	0768 938916	[Signature]
23	MAGRETH KARENE	Medical	Mjumba	0743724115	[Signature]
24	Elizabeth Nushi	Medical	Mjumba	0755953146	[Signature]
25	JUMANE KAHENI	MEDICAL	Mjumba	0754095790	[Signature]
26	Kalele Wajuma	Kitangiri Kati	-	0765327266	[Signature]
27	MARIA MULLAWI	MEDICAL	MJUMBE	0747293799	[Signature]
28	ASHURA KHEFI	MEDICAL	MJUMBE	0786 757476	[Signature]
29	EWA EMMANUEL	MEDICAL RESEARCH	MJUMBE	0788 976 840	[Signature]
30	Andrea Samson	Medical	Mjumba	0767842463	[Signature]

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO. 2 CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR THE SIMPLIFIED SEWER SYSTEMS IN 10 AREAS (IBUNGILO, PASIANSI, KABUHO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
31	HANSA RAULANI	MEDICAL	MJUMBE	0763231703	H. Raulani
32	Rosemary B. Biyanga	Kitangiri Kati	Mjumba	0758 859963	R. Baudi
33	JOYCE AUGUSTINE	Medical	Mjumba	11-11-11	Joy
34	MOURICE G. SOKO	MEDICAL	Mjumba / MIAA	0763021551	[Signature]
35	BAINA SANANE	KITANGIRI - KATI	Mjumba	0759782008	[Signature]
36	SAKINA MICHAEL	KITANGIRI - KATI	Mjumba	0768200238	[Signature]
37	VERONICA JEREMIA	MEDICAL	MJUMBE	0769413192	[Signature]
38	WASIKU WAKO	KATI	MJUMBE	0769031037	[Signature]
39	SALMA ALY	MEDICAL		0756656366	
40	NACORO OTIOMA			0756656720	
41	MUSA ZAKA	MEDICAL	Mjumba	069597969	[Signature]
42	AMAL P. JOHN	MEDICAL	Engi	0788-20060	[Signature]
43	AUGUSTINO	MEDICAL	Mjumba	0689772567	[Signature]
	MRS. KAPYOKA K. KATI		Mjumba	0746490754	[Signature]

8) Mabatini

Provision of consultancy Service for Mwanza South Water Supply Project- Addendum No.2 Simplified sewer Sys

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT – ADDENDUM NO 2, CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR SIMPLIFIED SEWER SYSTEM IN 10 AREAS (IBUNGILO, PASIANI, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	NAME (JINA)	Stakeholder/Mtaa	Position/Title Wadhifa	Contact/Phone	SIGNATURE (SAHIHI)
01	JUMA SIMON NGELEJA	MABA TINI KUSINI	MWANANACHA	0785927271	
02	JAMATONI MASONGA	MABA TINI KUSINI	MWANANACHA	0752298489	
03	MSTHIGWA EREKEL	MABA TINI KUSINI	MWANANACHA	0754618366	
04	KILSON M. YANGO	MABA TINI KUSINI	BALOZI	0756378301	
05	SABATI MWUMBE CHIMWESHO	MABA TINI KUSINI	MWANANACHA	075682005	
06	MASHUMBUKO MWENYENDE	MABA TINI KUSINI	MWANANACHA		
07	LEONARD ZACHARIA	UNGUJA MABATI	MWANANACHA	076277347	
08	COSMAS MKAMA	UNGUJA MABATI	MWANANACHA	0765279187	
09	FROLENSIA R MARWA	UNGUJA MABATI	MWANANACHA	0792194006	

Stamp: KATA VI, MABATI, MWA...

Provision of consultancy Service for Mwanza South Water Supply Project- Addendum No.2 Simplified sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT – ADDENDUM NO 2, CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR SIMPLIFIED SEWER SYSTEM IN 10 AREAS (IBUNGILO, PASIANI, KABUHHO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	NAME (JINA)	Stakeholder/Mtaa	Position/Title Wadhifa	Contact/Phone	SIGNATURE (SAHIHI)
10	ANTONY MAFIRI	M/KUSINI	BALOZI	0711556122	
11	SEHEMA RASHIDI	UNGUJA	MWANANACHA	0754517796	
12	FARIDA FERESIN	M/KUSINI		0764364541	
13	LETISIA MABUKA			0748431961	
14	GEORGE AKAY				
15	AMINA SHIRINDE	UNGUJA		0759524455	
16	TARI RASHIDI			0762296614	
17	RUKIA HAMISI			07525634	
18	JUMA MOHAMED	UNGUJA		0758662	

Stamp: KATA VI, MABATI, MWA...

Provision of consultancy Service for Mwanza South Water Supply Project- Addendum No.2 Simplified sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO 2, CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR SIMPLIFIED SEWER SYSTEM IN 10 AREAS (IBUNGILO, PASIANSI, KABUHOHO, KITANGIRI, KILIMAEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	NAME (JINA)	Stakeholder/Mtaa	Position/Title Wadhifa	Contact/Phone	SIGNATURE (SAHIHI)
1	ELIZABETH ELIAS	UNGUJA	Mwananchi	0752372300	B.P
2	HERBERT JOSEPH DANIEL MACKENDO	UNGUJA unguja	Mwananchi mwananchi	0689900676	J.F. D. Mackendo
3	PILWA WILLIAM	UNGUJA	Mwananchi	0748162637	Pilwa
4	SITIDA MACKENGO	UNGUJA	Mwananchi	0693151672	Sitida
5	MILEMO UTAIGO	UNGUJA	MWANANCHI	0787833511	Milemo
6	JUMA MAKERE	UNGUJA	MWANANCHI	0767779027	Juma
7	MARIAMU PETE	UNGUJA	MWANANCHI	0744907454	Mariam
8	ALICE HUSSEINI	UNGUJA	MWANANCHI	0754-756388	Alice
9	SELINA MADUKA	UNGUJA	MWANANCHI	0782977896	Selina
10	ROBERT B-SHIMBA	MABATINI	MWANANCHI	0753490051	Robert



JINA	Mtaa	MWANANCHI	Phone	Signature
JUSTA - ISDORY	UNGUJA	MWANANCHI	0744530842	J. Isdory
MARGARETH - MLAWA	UNGUJA	MWANANCHI	0762841799	Margareth
JESKA - EDUMWILI	UNGUJA	MWANANCHI	0747872477	Jeska
BUNDESA - FARISTA	UNGUJA	MWANANCHI	0753012385	Bunda
GAUDISA - MAGENGE	UNGUJA	MWANANCHI	0759640003	Gaudisa
ZUKA - AHUMADI	BATINI	MWANANCHI	0768189613	Zuka
GAUDISA - GEREJA	MABATINI	MWANANCHI	0683649039	Gaudisa
AWA - MBILILI	MABATINI	MWANANCHI	075901785	Awa
KHABUJA - MSAILO	UNGUJA	MWANANCHI	0763-553896	Khabuja
YAHYA - RAMADHAP	MABATINI	MWANANCHI	0693004477	Yahya
SALMA - KILANGA	Mababini	Mwananchi	0767721003	Salma
Safina - Ahumani	Mababini	Mwananchi	0684584263	Safina
Diana Mwaka	Mababini	Mwananchi	0769987707	Diana
SWAHUMI IDRISA	UNGUJA	Mwananchi	0752286704	Swahumi
VERONICA ELIAS	UNGUJA	Mwananchi	0745245936	Veronica
SALMA BAKARI	UNGUJA	Mwananchi	075856612	Salma
JESIA JACKSON	MABATINI	Mwananchi	0765660765	Jesia
AKHA TOFIKI	MABATINI	Mwananchi	0755322774	Akha
CHRISTINA CHALES	MABATINI	Mwananchi	076838576	Christina
EPINCCI MSENJI	MABATINI	Mwananchi	0764813146	Epincci
Selina paulo	UNGUJA	Mwananchi	0745249752	Selina
GOGGE JUMANI	UNGUJA	Mwananchi	0756072885	Gogge
PETRO MANEHI	UNGUJA	Mwananchi	0746249648	Petro
TATU JAMES	UNGUJA	Mwananchi	0752068471	Tatu
ELIZABETH MUSUMU	UNGUJA	Mwananchi	0684065608	Elizabeth
Peter Mwata	UNGUJA	Mwananchi	0685360909	Peter
NEEMA NESTORY	UNGUJA	Mwananchi		Neema



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STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO 2, CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR SIMPLIFIED SEWER SYSTEM IN 10 AREAS (IBUNGILO, PASIANI, KABUHO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	NAME (JINA)	Stakeholder/Mtaa	Position/Title Wadhifa	Contact/Phone	SIGNATURE (SAHIHI)
28	OMARY MAMU	MABATINI	MJUMBE		O. Mamu
29	SAB M. NZIGE	MABATINI	MWANANCHI	0774283648	SAB M. NZIGE
30	YOHANA SAMSON	MABATINI	MWANANCHI	0763483606	Y. Samson
31	AYUBU HUMARI	UNGUJA	MWANANCHI	0783334154	A. Humari
32	EMMANUEL B. BOSTIPACE	MABATINI KUSINI	MWANANCHI	0687336947	E. Bostipace
33	LAURENT C. KASOMBE	MABATINI KUSINI	MWANANCHI	0747102782	L. Kasombe
34	STANLY PIUS LUCHIBA	MABATINI KUSINI	MWANANCHI	0765982359	S. Pius
35	JOHN MWITA MAREGE	MABATINI KUSINI	MWANANCHI	0752519209	J. Mwita
36	CHACHA JAMES	MABATINI KUSINI	MWANANCHI	0768902798	C. Chacha

JINA	MTAA	WADHIFA	JINA	CHATHI
DEVOITHA ALEX	MABATINI KUSINI	Mwananchi	0763027087	D. Alex
Tekza Lwenzwa	UNGUJA	Mwananchi	0783101443	T. Lwenzwa
Sikuja nzirenta	UNGUJA	Mwananchi	0759251353	S. Nzirenta
GEORGE ELZAKIEL	MABATINI	MWANANCHI	0753182412	G. Elzakiel
Mwanne Laby	UNGUJA	Mwananchi	0756742784	M. Laby
AVELINA GABRIEL	UNGUJA		0757242362	A. Gabriel
ERICK NABWA	UNGUJA	BALALI	0764497849	E. Nabwa
ERICK JOMBA	UNGUJA	BALALI	0753335782	E. Jomba
Khadija mzalali	UNGUJA	Khadija	0764828760	K. Mzalali
GEORGE BOSTIPACE	MABATINI	Mwananchi	0748468435	G. Bostipace
ADAM ISSA	UNGUJA	Mwananchi	0786554388	A. Issa
EVALINI JOASH	MABATINI	MWANANCHI	0786782489	E. Joash
HANA GAPHARY	MABATINI	-11-	0759530951	H. Gaphary
HENRY MUSSA	MABATINI KUSINI	-11-	0754699905	H. Musa
DANIEL KILAZA	MABATINI KUSINI	-11-		D. Kilaza
CHRISTINA MUSSA	-11-	-11-		C. Musa
TIBA SAIDI	UNGUJA	-11-		T. Saidi
SAMSON M. M.	MABATINI	-11-	0695446873	S. M. M.

Provision of consultancy Service for Mwanza South Water Supply Project- Addendum No.2 Simplified sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO 2, CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR SIMPLIFIED SEWER SYSTEM IN 10 AREAS (IBUNGILO, PASIANSI, KABUHORO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	NAME (JINA)	Stakeholder/Mtaa	Position/Title Wadhifa	Contact/Phone	SIGNATURE (SAHIHI)
37	ASHURA RAJABU MUSAUD	UNGUJA	Mwananchi	075677236	
38	SARAH ERNEST	UNGUJA	Mwananchi		S.E
39	VERONIKA RAFAELI	mabatini	Mwananchi	0782538944	Veronika
40	PAMELA LAMEKI	mabatini	Mwananchi	0784644967	Pamela
41	CHRISTINA KALIMANZIA	unguja	Mwananchi	0744791935	Christina
42	MAGGIES BIGELA	unguja	Mwananchi	0685248626	Maggies
43	HAWA PASCHAL	unguja	Mwananchi	-	Hawa
44	JANEH JOHN	unguja	Mwananchi	0752939510	John
45	HAWA IBRAHIM	unguja	Mwananchi	0747588668	Hawa
46	KHAMIS LIRO	unguja	Mwananchi		Khamis



JINA	Mtaa	Mtaa	Phone	Signature
SALIM R. ISMAIL	UNGUJA	MWANANCHI	0743786288	
Richard Madihu	unguja	Mwananchi	0756377934	
ANBREA KISHWA	UNGUJA	"	0749607778	
WEREMA JOSEPH	UNGUJA	"	0763754302	
BATILI SHABAN	UNGUJA	"	0767890588	
ROSEMARY LAWRENCE	UNGUJA	"	0753601267	
ROSE T. MAKWATA	UNGUJA	"	0758005226	
MURITH ISSA	UNGUJA	"	0742744112	N.I.
JOHN L. MBOYA	UNGUJA	"	0754449540	
Julius Mushi	unguja	"	0757402270	
IKHAMIRI VEDASTO	unguja	"	0757638861	
AHMED AMIN	UNGUJA	"	0692231233	
MAKUNA BATIWA	UNGUJA	"	0783240555	
ASIMUWA ANTHONY	UNGUJA	"	0693937335	
SHABAN SATO	UNGUJA	"	0756225555	
FREDY PAULO	UNGUJA	"	0747689775	
VERONICA THOMAS	UNGUJA	"	0789431279	
MAGIDI HANIS	UNGUJA	"	0784829296	
SELEMANI HARUHE	UNGUJA	"	0689228665	
RAMADHAN KIDJA	UNGUJA	"	0764323238	
SMON MAKASHIUYA	UNGUJA	LABORATORY TECHNICAL	0754483050	



9) Nyamagana

[illegible]

10) Pasiansi

ARI WA MKUTANO WA HADHARA WA MNAUWASA NA
WA GWIRU - MCHANGANI ULIOFANYIKA TAREHE 29/05/2024

A:

1. KUFUNGUA KIKAO
2. MTAMBULISHO
3. KUTAMBULISHA MRADI WA MFUMO WA MASI TATA
4. MNGITNEYO
5. KUFUNGA KIKAO

1. KUFUNGUA KIKAO

Mwenyekiti alifungua Mkutano mramo majira ya saa 10:30 gumi kwa kuwa salimu Wanaeji wa Kuwambakume kwa wakikwa katika kikao hiki na Wanaeji wote wakafika ili Mkutano kuweza kuanzishwa.

2. MTAMBULISHO

Mtendaji wa Kikao alitambuliha mradi kuwa ambapo viongozi wote walivereza kutambuliha mradi huo ngano na upathia mbalimbali ambazo wako nazo.

3. KUTAMBULISHA MRADI WA MFUMO WA MASI

Mtambuliha mradi wa Mnauwasa alivereza kumam na kuanza ufafanuzi wa Mtambuliha mradi huo wa maji kwa kuwa Wanaeji zaidi wanavishi katika majimo ya milimani, ambapo, Mtambuliha mradi alivereza ufafanuzi kwa kuwa awamu ya kuanza ya mradi huo.

ambapo pia aliwera kutoka kwa kwa wananchi
ambao wanaiti kwenye maeneo tamberake nao
watawera kugizwa kwenye mpya huko awamya
Pili ya mradi, na atawera kutoka ufufuzi pia
kwa maoni ambayo watawera kutoka Wananchi wa
sehemu za tamberake kwa endapo watawera kutoka ma-
mo yatawera kuchukuliwa ita kuwera kapote kipaumbe
kutoka awamu ya kwanza ya mradi huu.
pia Mfambakishi mradi aliwera kutakabishi
Wananchi kuwera kutoka maoni na kutika maswali
mbalimbali yaliyotawaya na mradi huu. Na Wananchi waka
2a kutika maswali, ambapo Mwanchi mmoja anaye
maoni ya mlimani aliwera kutika kwa ndio mradi
umeitika ju kwa Wananchi Wanaiti mlimani na wama-
minundombinu mizuri ya maji taka ju wakimua kutika
na mradi huu makuwaje ambapo mfambakishi mradi
aliwera kutika kwa kutawelokea fando za mradi
huu kwa Wananchi Wanaiti kwenye maeneo ya mlimani
vilevile mfambakishi mradi kutoka Mwanas-
aliwera kutoka ufufuzi kwa kwa awamu ya
kwanza ya mradi huu utawahusu zaidi kwa wana
Wanaiti kutika maeneo ya mlimani.

Pia Mwanachi mmoja anayeshi kabisa eneo la
fambare aliweza kutiza kwa Wanaishi maeneo
jiirani na mradi huu Wawere kapewa kipaumbel
zaidi kwa mradi unawagusa mja kwa mja hata
kutoa ushahidi kwa Mwanachizi Wawere kama
kipaumbel Wanaishi Wanaoishi kando na
mradi huo wa Mji Joka.

Pia Mh. Diwani aliweza kutia maswiri na ufaafu
kwa Wanaishi kwa kufuata Umuhimu wa mradi
huu na kuwera kufuata historia fupi ya mradi
huu Joka awamu ya kwanza uliyo awitika kwa
na kufuata zaidi kwa Wanaishi iki kuwera
kufuata mradi na kutia maswiri ya ubatambaji
iki kuwera. Kufuata Umuhimu wa mradi huo.

vilevile Mh. Diwani aliweza kutia maswiri
Wanaishi ambao wamewera kutika kando
mikutano kwa kutoa kiti ni hiya na kutoa
kufuata Umuhimu wa fide za mradi huo
za kutika kabisa eneo la mtaa wa Burru
Mchanganu.

4. MENTINETO

Mwape bith wa Mkataba alivaea Chwaamba
Wananchi kaweza kumelwa Mradi hii kaweza kua
Umkombe Wa mradi huu ambao una filaa. Kwapa
Limo la mtaa huo Wananchi Wawachia kati
mawao ya m'limani, vilevile alivaea Katiba hofu
Wananchi kati huo na mradi huu.

5. Kufuatilia kilele

Mwape bith alifika kiba mnamo majira
ya saa 12:30jina huo kaweza kaweza kumelwa
Wajumbe ambao wawawea Katiba na kushinji
Katiba Mkataba na kua Wasikivu.

KATIBA


JINA: SEFU H. JUMA

SATHIHI: 

IPISA MTENDAJI WA KATI
KATA YA PASTANSI
MANISPAA YA ILFWEI

MWENTEKITI

JINA: HAMIS SALO

SATHIHI: 

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO. 2 CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR THE SIMPLIFIED SEWER SYSTEMS IN 10 AREAS (IBUNGILO, PASIANSI, KABUHOHO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	MH ROSEMARY MATUNGA	PASIANSI	DIWANI	0754 593371	Rosemary
2	HAMIS SAID	M/KITI B/MCHANGANI		0782187833	Hamis
3	ALLY H. RAIMUND	PASIANSI USTAWI	WEO	0762654860	Ally
04	EDMUND GERARD	BWIRU ZIWANI	MEO	082282925	Edmund
05	JOYCE MATHA	MEO-PASIANSI CHINI	MEO	0754 453604	Joyce
06	FLAVIA M. MUSA	M/KITI S/MIA/P/CHINI	MWENIKITI	0754 379506	Flavia
07	JOHNS MURRAYANGI	PASIANSI CHINI	MJUMBE	0716962216	Johns
08	LABANI KAIKINDO	PASIANSI BWIRU	MJUMBE	0785172103	Labani
09	MARANDA THOMAS	BWIRU MCHANGANI	---	0755-329001	Maranda
10	MALEMO	---	---		
11	ABDOL M. LUGESHA	PASIANSI CHINI	---	0785719112	Abdol
12	YUSUF R. SEMUNDO	BWIRU MCHANGANI	BALAZI	0686619995	Yusuf
13	ALISIDES KABARA	BWIRU MCHANGANI	---		Alisides
14	VIOLETA CHOBWA	BWIRU MCHANGANI	MJUMBE	0765517268	Violeta
15	ATONY REGIE	BWIRU	MJUMBE	0620291616	Atony

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
31	LILIAN WILLIAM	BWIRU MCHANGANI	MJUMBE	0742967541	Lilian
32	JOSEPH JOSIAH	BWIRU MCHANGANI	RAIA	0782614754	Joseph
33	CHESA MAKALO	---	MJUMBE	0766323000	Chesa
34	KHADISA HAMISI	BWIRU MCHANGANI	RAIA	0745 499873	Khadisa
35	YUNICE KASIMU	BWIRU MCHANGANI	RAIA	0764 286964	Yunice
36	KHADISA BILHA	BWIRU MCHANGANI	MJUMBE	0757225916	Khadisa
37	SPID XPSIN	BWIRU MCHANGANI	RAIA	0718614616	Spid
38	ATIMAN NYAMLEHA	BWIRU MCHANGANI	RAIA	0784758563	Atiman
39	ADN F. KUSAMBA	PASIANSI CHINI	MJUMBE	0743 902184	Adn
30	OMALY HASSAN	BWIRU MCHANGANI		0739122291	Omal
31	SEFY H. JUMA	BWIRU - MCHANGANI	MEO	0748250351	Sefy

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT - ADDENDUM NO. 2 CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR THE SIMPLIFIED SEWER SYSTEMS IN 10 AREAS (IBUNGILO, PASIANZI, KABUHOHO, KITANGIRI, KILIMAEWA, ISAMILU, MABATINI, USTAWI, IGOGO AND BUGARIKA)

S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
06	Joseph	Bwira Mchanganu	MJUMBE	0765647760	[Signature]
07	HELENA MAREGE	Bwira Mchanganu	MJUMBE	0784418294	[Signature]
18	GAUDENSIA	P. MACHU	MJUMBE	-	-
19	JOSEPH MAULID	BW. MCHANGANU	MJUMBE	0743046086	[Signature]
20	ASTERIX TONGA	BW. MCHANGANU	MJUMBE	0762698071	A. Tonga
21	ZEDA KATAMU	P. CHINI	MJUMBE	0752595927	[Signature]
22	HELENA KIBUSI	P. CHINI	MJUMBE	0768497385	[Signature]
23	MARCO SUMA	P. CHINI	MJUMBE	0764029706	[Signature]
24	TIMOTHY LWATA	BWIRU MCHANGANU	MJUMBE	0767222456	[Signature]
25	SAID KAPAMA	BWIRU MCHANGANU	MJUMBE	0655028318	[Signature]
26	JOSEPH KATAMU	BWIRU MCHANGANU	MJUMBE	0755367149	[Signature]
27	MARYALINA NABANDI	Bwira Mchanganu	"	0758743799	[Signature]
28	Nyongiri wa Nyongiri	"	"	0585709742	[Signature]
29	SHINSE ELIAS	"	"	0756794471	[Signature]
30	MASHAI NUSSE	Bwira Mchanganu	MJUMBE	0985538255	[Signature]

ATISA MTENDAJI WA KATI
KATI YA PASIANZI
KATI YA KILIMAEWA
29/05/2021

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
91	PATRICK SIKANDA	PASIANSI JUU	-11-	0754830755	[Signature]
92	MERUS ENOS	P. JU	-12-	0762805895	[Signature]
93	MARGRETH LEMBE	P. MAGARIBI	-11-	8	
94	BET BULEMO	P. MAGARIBI	-11-	0764575431	
95	ANASTASIA JOHN	P. MAGARIBI	-11-	0789854454	[Signature]
96	MARGRETH GERSON	P. MAGARIBI	-11-	0756633561	
97	KIDAWA LASTIDI	P. JUU	-11-	0763019095	
98	JUDITH MABO	P. JUU	-11-	0754835378	
99	SIMONILAUUS LUBUKA	P. JUU	-11-	0765970891	
100	TEODOLA KAKWIZA	P. MAGARIBI			
101	MARIA HAMIS				
102	MWITA CHACHA				
103	ASHA MYAGA				
104	HINDU HAMIS				
105					

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
1	MH. ROSEMARY MARIKE	PASIANSI	SHAKH KATA	0754 59332	[Signature]
2	ALLY H. RAIMUND	PASIANSI LITARD	WDO	0762629860	[Signature]
3	ISAYA H. LIMBE	PASIANSI JUU	MKIMUNWA	0769095520	[Signature]
4	ASHUA CHARLES	BURU BIMA	MUKI WAMIA	0765558653	[Signature]
5	PATRIK ANTON	PASIANSI MAGARIBI	MEO	0768-530898	[Signature]
6	JUMA F. JUU	PASIANSI JUU	MJUMBE	0769963189	[Signature]
7	ISACK E. CHUMBE	PASIANSI JUU	MJUMBE	0782006657	[Signature]
8	JOSUPH NDIRAKOMU	PASIANSI JUU	MJUMBE	0768329239	[Signature]
9	PHILEMIA JOHN	PASIANSI JUU	MJUMBE	0753-260700	[Signature]
10	RASHIDY KHAN	PASIANSI JUU	MJUMBE	0769 890083	[Signature]
11	MUSA OMARI	PASIANSI JUU	MJUMBE	0783246463	[Signature]
12	AUDAX RIMADEO	PASIANSI JUU	MJUMBE	0766672236	[Signature]
13	ALI LAMARO	PASIANSI JUU	MJUMBE	0753277181	[Signature]
14	S. MURPARI	-11-	-11-	0754 8411	[Signature]
15	JE. MURPARI	-11-	-11-	0754 427116	[Signature]

WASA MIENDAJI WA KATI
KATA YA PASIANSI
KATA YA PASIANSI
KATA YA PASIANSI

Pasiansi 02

MHU IASAKI WA MKUTANO WA WANANCHI MITAA YA PASIANSI JULU, PASIANSI MAGHARI
NA BWIRU BIMA JULU YA UTEKELEZAJI WA MRADI WA MFUMO WA MAJI TAK
TARI 29/05/2024 KATA YA PASIANSI

AGENDA

1. KUFUNGUUA KIKAO
2. UTAMBULISHO
3. KUTAMBULISHA MRADI
4. KUPOKEA CHANGAMOTO
5. KUFUNGA KIKAO

1. KUFUNGUUA KIKAO

Mwenyekiti wa Mtaa wa Pasiansi Julu alifungua kikao mnamo saa 8:25 mchana kwa kuwaomba wananchi wawe wanikivu kuchangia na kutoa he kwenye kikao.

2. UTAMBULISHO

Mwenyekiti alitoa utambulisho wa wiongozi na watolamu mbalimbali waliyofika kwenye kikao kilichowambiana na wiongozi wa MWAUWASA Diwani wa Kata ya Pasiansi, Mtendaji wa Kata ya Pasiansi, watendaji wa Mitaa Mitatu (3) na wenyeviti wa Mitaa yote Mitatu (3) na wiongozi wote wa Mitaa hiyo mbalimbali.

3. KUTAMBULISHA MRADI

Mtendaji wa Kata ya Pasiansi alimkaribisha Diwani na kutoa ufafanuzi kuhusu Mradi wa Majitaka (MWAUWASA) na kumkaribisha mtaalamu wa mta na kuanza kutoa ufafanuzi juu ya mradi huo. Engineer wa MWAUWASA alitoa ufafanuzi juu ya mradi kuwa mradi utakuwa shirikishi na kunganishwa na huduma hiyo itakuwa bure. Pia mradi utakapopita hufi kuwa na fidia mahali mabomba ya Majitaka yatakapopita. Pia bei ya kulipia bili itakuwa 50% ya bei ya maji ya bomba itakayotumia nyumbani kwako Mradi utaanza mwezi wa sita (6) mwaka huu 2024 kwa kufadhiliwa na wahisani kutoka Ufaransa


4. KUPOKEA CHANGAMOTO


Mwananchi mmoja alisema changamoto yake ni mahali anapoishi ni mbali hivyo gari la maji taka haliwezifika hivyo basi alionga mabomba yafike hadi maeneo ya milimeji na kuweka mizadimbini ya maji safi. Mwananchi mwingi kuwa kunatatizo la maji kukatika sana hata maeneo ya milimani yatakapoweza kukata athari kwa watumiaji wa Mradi wa Majitaka. Changamoto kubwa kutokwa wananchi ni kuliomba EWURA wapunguze gharama ya 50% kwa ajini ya maji taka kuwasababu gharama ni kubwa sana kuwa baadhi ya wananchi watahindwa kulipia bili za maji taka.

Wananchi wengi wamukubali mradi huu wa maji taka pia wananchi waliomba pindi mradi ukifika katika hatua ya utukelazaji utoe ajira kwa vijana hasa wanaotoka katika mitaa husika.

5: KUFUNGA KIKAO

Mwenyekiti alifunga kikao mnamo saa 10:10 Jioni Huku kuwaomba wananchi kutoa ushinkiano wa kutacha pindi utukelazaji utakapoanza na kuwashukuru wananchi na kuwatakua kudumisha amani na umoja wa mitaa yote.

Mwenyekiti
SAYA H. LIMBE


Katibu
STEPHEN A. ANIKAZI




AFISA MIENDAJI WA KATI
KATA YA ILEMELE
ANTSPRA YA ILEMELE

29/05/2024



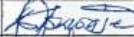












Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

STAKEHOLDER CONSULTATION FORM FOR MWANZA SOUTH WATER SUPPLY PROJECT – ADDENDUM NO. 2 CONDUCTING SOCIAL SURVEY, ESIA AND RAPID RAP FOR THE SIMPLIFIED SEWER SYSTEMS IN 10 AREAS (IBUNGUJO, PASIANSI, KABUHHORO, KITANGIRI, KILIMAHEWA, ISAMILO, MABATINI, USTAWI, IGOGO AND BUGARIKA)

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
16	THOMAS MAGINGA	PASIANI JULI	MJUMBE	0784 800776	
17	TIJU F. KIDILLO	PASIANI JULI	-11-	0767 601248	
18	ANTHONY NKWATE	PASIANI/S/JULI	MJUMBE	0784 890606	
19	ELIYA CHAMHENYI	P/JULI	MJUMBE	0756 165258	
20	BENJAMIN NANTAR	P/JULI	MJUMBE	0756 -824121	
21	STANISLACUS	P/JULI	MJUMBE	0765 970896	
22	Francis Munge	P/JULI	Mjumba	0784 40075	
23	EMMANUEL MAINGA	P. MACAGARI	MJUMBE	0765 323882	
24	IASI KARAGA	P/JULI	MJUMBE	0782 619001	
25	ALIMAJ KAMARA	P/JULI	MJUMBE	0765 -874055	
26	VEDASTUS MAICA	P/JULI	MJUMBE	0767 155586	
27	STEVEN J. MAREE	P/JULI	MJUMBE	0692 320621	
28	AROKO SARUNGU	P/JULI	MJUMBE	0755 770782	
29	EMMANUEL SARUNGU	P/JULI	-11-	0756 520269	
30	HASANI SHABAZI	DIMAGHARIBA	MJUMBE	0784 214776	

2. HISA MULNDA IJWA KAI
KATA YA IJIANST
MANTSPAYA HEMET A

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
31	MARIAM KISAZA	PASIANSI MASHA	MWAZIYI	0767641560	Mariam
32	SARA SAAUNGI	P/JUU	MJUMBE	0782769678	Sara
33	CHRISTIAN SAMWEL	PASIANSI MASHA	MJUMBE	0746305011	CHS
34	PELUSI YASOMI	PASIANSI MASHA	-	0792305851	Pelusi
35	MELINDA CLAVEL	P/JUU	MJUMBE	0752317181	Melinda
36	RODIA CHILEMETI	P/JUU	-	0769588009	Rodia
37	RATULI CHABAN	P/JUU	-	0765861401	Ratuli
38	JUMA OMARI	-	-	0765228183	Juma
39	LILIAN MICHAEL	-	-	0755565070	Lilian
40	IBRAHIM NETIO	-	-	-	Ibrahim
41	ESTHER NYOGA	-	-	-	Esther
42	LOISE HANDA	-	-	-	Loise
43	KOLOSTINA FRANCO	P/JUU	-	0769291853	Kolostina
44	JOSEPH KIBENDE	PASIANSI JUU	-	0787359849	Joseph
45	MYNAMI HASSANI	P/JUU	MJUMBE	0756939116	Mynami

MUSAMBAZI
KATA YA PASIANSI
KATA YA PASIANSI
KATA YA PASIANSI

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
46	Godoluvu wange	P/JUU	-	0752954735	Godoluvu
47	KOLETHA CHAKA	PASIANSI MASHA	-	0764476609	Koletha
48	NOEL HAULE	PASIANSI JUU	-	0755563813	Noel
49	ZUBESA KING	P. JUU	-	0746132750	Zubesa
50	ZABIBU HAIBU	P. JUU	-	0769942606	Zabibu
51	MERESIANA MASHA	P. JUU	-	0744239212	Meresiana
52	ELISIAZAHARIA	PASIANSI MASHA	-	0743485692	Elisia
53	ESMETH-WINSTON	PASIANSI JUU	-	0764896429	Esmeth
54	SALPA-SAMSON	PASIANSI JUU	-	-	S. Samson
55	LUCIA WILLIAM	PASIANSI JUU	-	0745553991	Lucia
56	NESUM EDWARD	PASIANSI MASHA	-	0764922325	Nesum
57	CHRISTINA SHIMON	PASIANSI JUU	-	0759359211	Christina
58	CHAUSSIKU HOHI	PASIANSI JUU	-	0762345313	Chaussiku
59	ANJERINA	MUTENDIWA	-	-	Anjering
60	MADIA-GODDITJ	PASIANSI JUU	-	0762309124	Madia

MANGGODI
KATA YA PASIANSI
KATA YA PASIANSI
KATA YA PASIANSI

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
61	MBARAKA BAGUKA	PASIANSI JUU	-11-	0754962350	M.B
62	REHE MAMGEMELA	PASIANSI POLISI	-11-	0687431100	Rog
63	PAULIUNA J. MWITA	PASIANSI JUU	-11-11		
64	Turnaini Jumanne	PASIANSI JUU	-11-11	0762368454	Jumanne
65	AGINGS KAZIKA	PASIANSI JUU	-1-11	0756732518	Akajuma
66	RETISIANS OMARU	PASIANSI JUU	-11-11-		
67	YASSIN MAPUNDA	P/POLISI	-11-	0762421021	Mapunda
68	MARIA HAMIS	P/JUU	-x-x		
69	MACE MU NCHENGE	P/MAGH	-7-1-	0752868443	Mace
70	ASHA MUYACE	P/JUU	-11-		
71	LUCY ROBERT	P/MAGHARIBI	-11-	0744814825	L.Robert
72	MENGI SAID	P/MAGHARIBI	-11-	0746235969	M.Said
73	CATHLINE JOHN	P/MAGHARIBI	-11-	0742032322	C.John
74	SEBASTIAN WENKOLE	P/JUU	-11-	0764520076	Sebastian
75	MOLISARIA PAUG	P/MAGH	-11-	0756820076	
76	BURKA MUSSA	P/JUU	-11-	0753180163	

Provision of Consultancy Services for Mwanza South Water Supply Project - Addendum No. 2 Simplified Sewer System in 10 areas

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S/N	Name/Jina	Institution/stakeholder Mtaa	Position/Title Wadhifa	Contacts/Phone Simu	Signature Sahihi
76	IRESA IMARI	P/JUU	-11-	0759-435585	Imari
77	BENJAMIN MUKAMA	P/JUU	-11-	0695220070	B.Mukama
78	ATUMA PASTIS	P. MAGHARIBI	-11-	0755-533888	Atuma
79	HADJA HAMIS	P. MAGHARIBI	-11-		Hadja
80	JUNA S. SWEEDY	P/JUU	-11-	0686038587	Sweedy
81	LEONARD Mwendwa	P/JUU	-11-	0754065418	Leonard
82	MUSUBI MANGENI	P/MAGHARIBI	-11-	0683729816	Musubi
83	MLIBUND JOEL	P/JUU	-11-	0768227000	Joel
84	KAYI-ZABRA	P/MAGHARIBI	-11-	0768406197	Kayi
85	DR JOSEPH MAGE	PASIANSI JUU	-11-	0754080888	Dr. Joseph
86	FANUEL PAUL	P/JUU	-11-	0754-044717	Fanuel
87	ABDULLA ATHUMAN	P/JUU	-11-	0752373433	Athuman
88	CLEOPHACE ERNEST	P/JUU	-11-	0752834855	Cleopha
89	LAKARO KKYERI	PASIANSI JUU	BARDZI	0755970205	Lakaro
90	LODIRIKI JOSEPH	P. MAGHARIBI	MUMBE	0767573662	Lodiriki

APPENDIX III: PHOTOS OF THE SITE VISITS



Existing simplified sewer system from connected pit latrines



Un-connected pit latrines in some of the project areas



Butuja treatment ponds for connected pit latrines on the project area



Sewage truck discharging wastewater collected from unconnected pit latrines at Butuja treatment ponds



Solid waste collection point in one of the project areas



Public meetings in one of the project areas



Lifting hands marks Public positive response to the SSS project

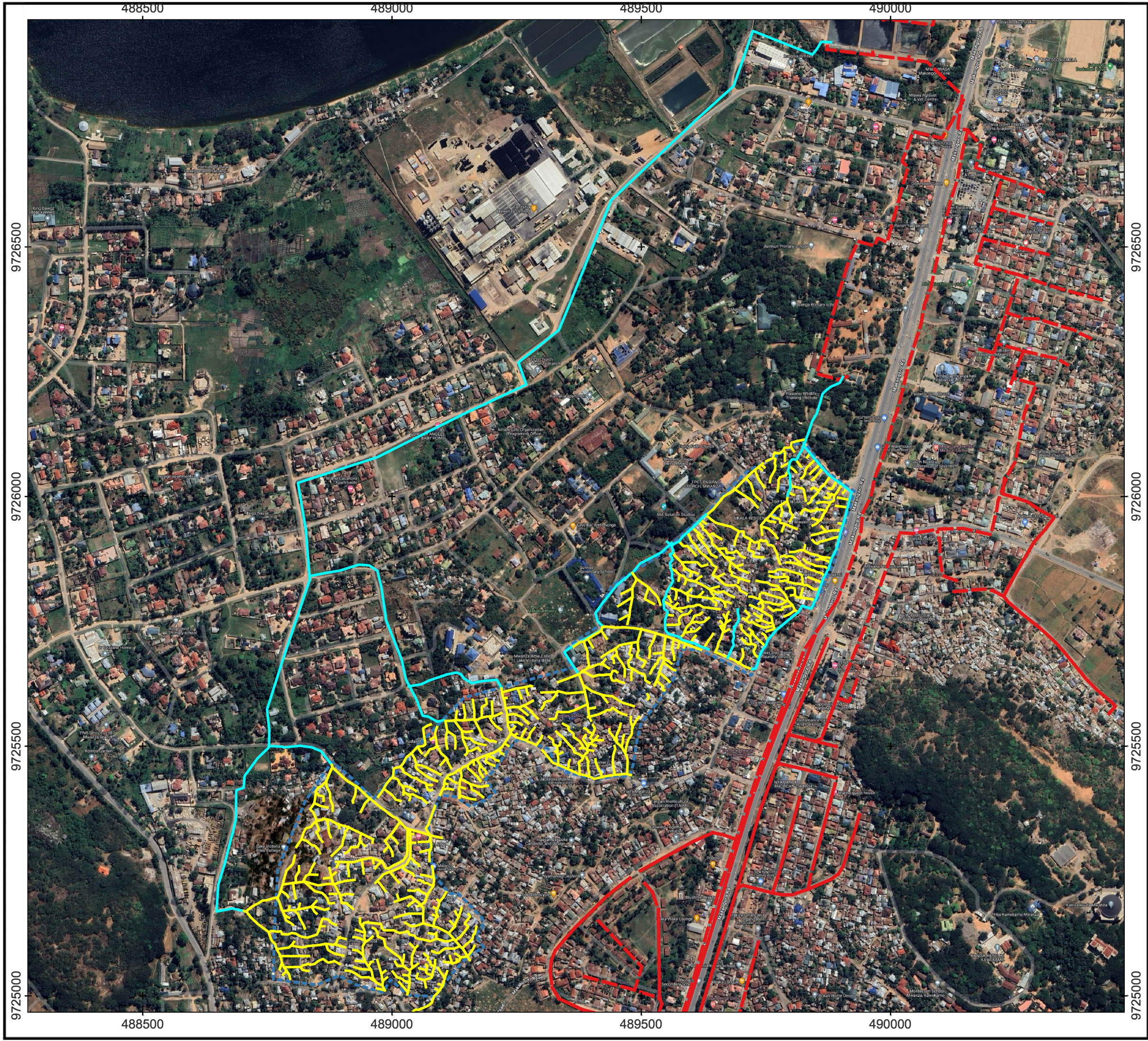


Distribution point for clean water in one of the project areas



Some of the household chambers are used as solid waste collection point and not well maintained

APPENDIX IV: DRAWINGS



Legend

Existing Public Sewer

Ward Boundary

Proposed Simplified Sewer

OD100

OD160

Zone Boundary



CLIENT:



MWANZA URBAN WATER SUPPLY &
SANITATION AUTHORITY (MWAUWASA)
MAJI HOUSE - BALEWAR D
P.O BOX 317, MWANZA
TEL: +255 282500547
FAX: NO: +255 282503231
EMAIL: info@mwauwasa.go.tz



FINANCIERS:



AGENCE FRANÇAISE DE DEVELOPPEMENT (AFD)

CONSULTANTS:

SEURECA  VEOLIA

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
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IN ASSOCIATION WITH:



NETWORK FOR WATER AND SANITATION
(NETWAS) TANZANIA LTD
MAJI HOUSE, PLOT NO. 49, BAHARI
BEACH, KINONDONI
P.O.BOX 95843,
DAR ES SALAAM-TANZANIA

PROJECT:

WATER SUPPLY SYSTEMS FOR BUHONGWA, KISHIRI, KISESA AND
USAGARA IN MWANZA CITY AND NEIGHBOURING AREAS

CONTRACT:

STAGE 1B-CONSTRUCTION OF PUMPING STATION, TRANSMISSION MAIN,
RESERVOIRS AND DISTRIBUTION SYSTEM

DRAWING TITLE:

IBUNGILO SIMPLIFIED SEWER NETWORK

DESIGN BY:

T. Temba

DRAWN BY:

B. Mahenge

CHECKED BY:

P. Gateru

APPROVED BY:

P. Gateru

SCALE:

1:7,200

DATE:

June 2024

CONTRACT No:

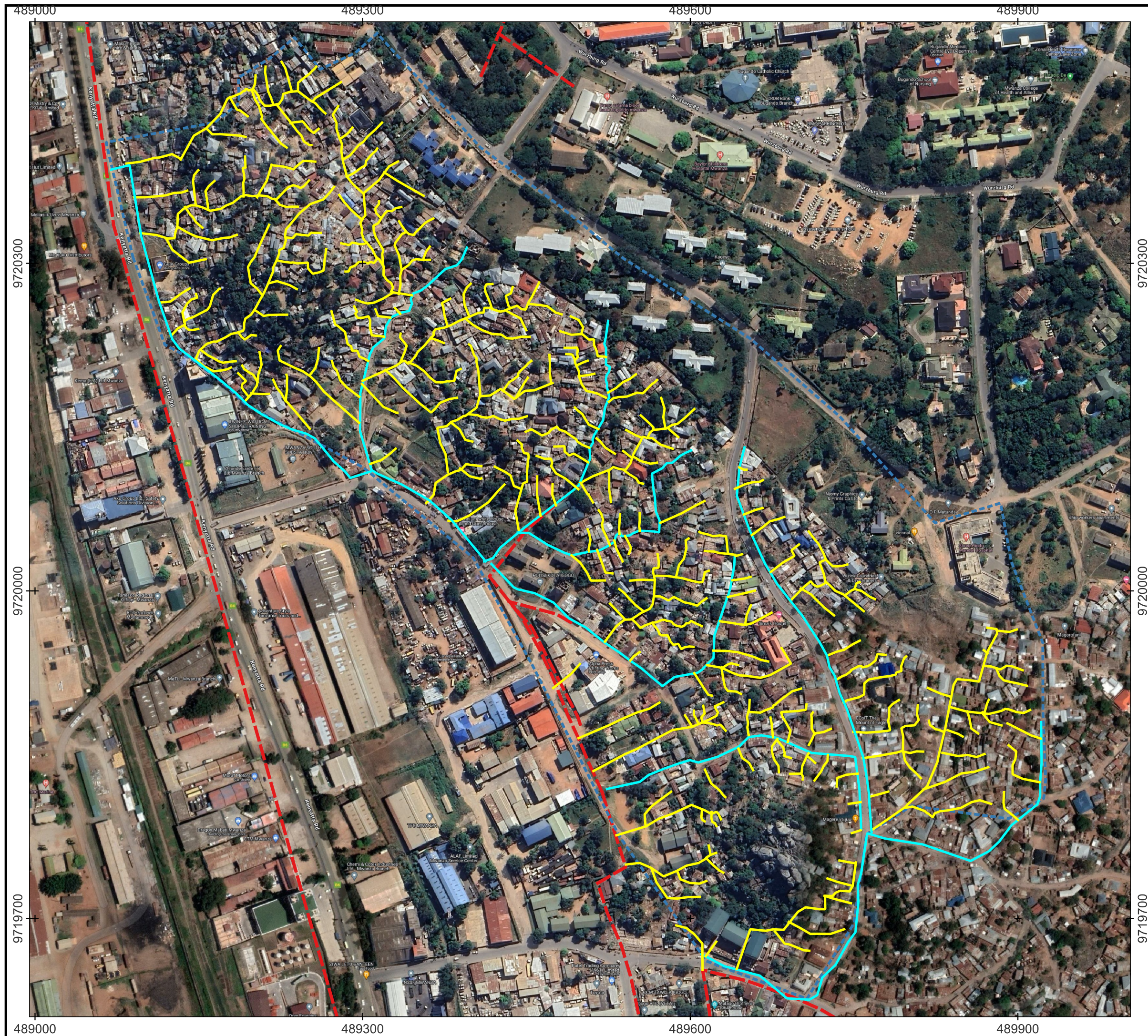
MWAUWASA/LWATSAN/AFD/WSS/1B/002/2024

DRAWING NO.






Revision

TZ/MWA/TP/477

A B C D E F
G H I J K L



Legend

-  Existing Public Sewer
 Ward Boundary
Proposed Simplified Sewer
 OD110
 OD160
 Zone Boundary



CLIENT:



**MWANZA URBAN WATER SUPPLY &
SANITATION AUTHORITY (MWAUWASA)**
MAJI HOUSE - BALEWA RD
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FINANCIERS:



AGENCE FRANÇAISE DE DEVELOPPEMENT (AFD)

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WATER SUPPLY SYSTEMS FOR BUHONGWA, KISHIRI, KISESA AND
USAGARA IN MWANZA CITY AND NEIGHBOURING AREAS

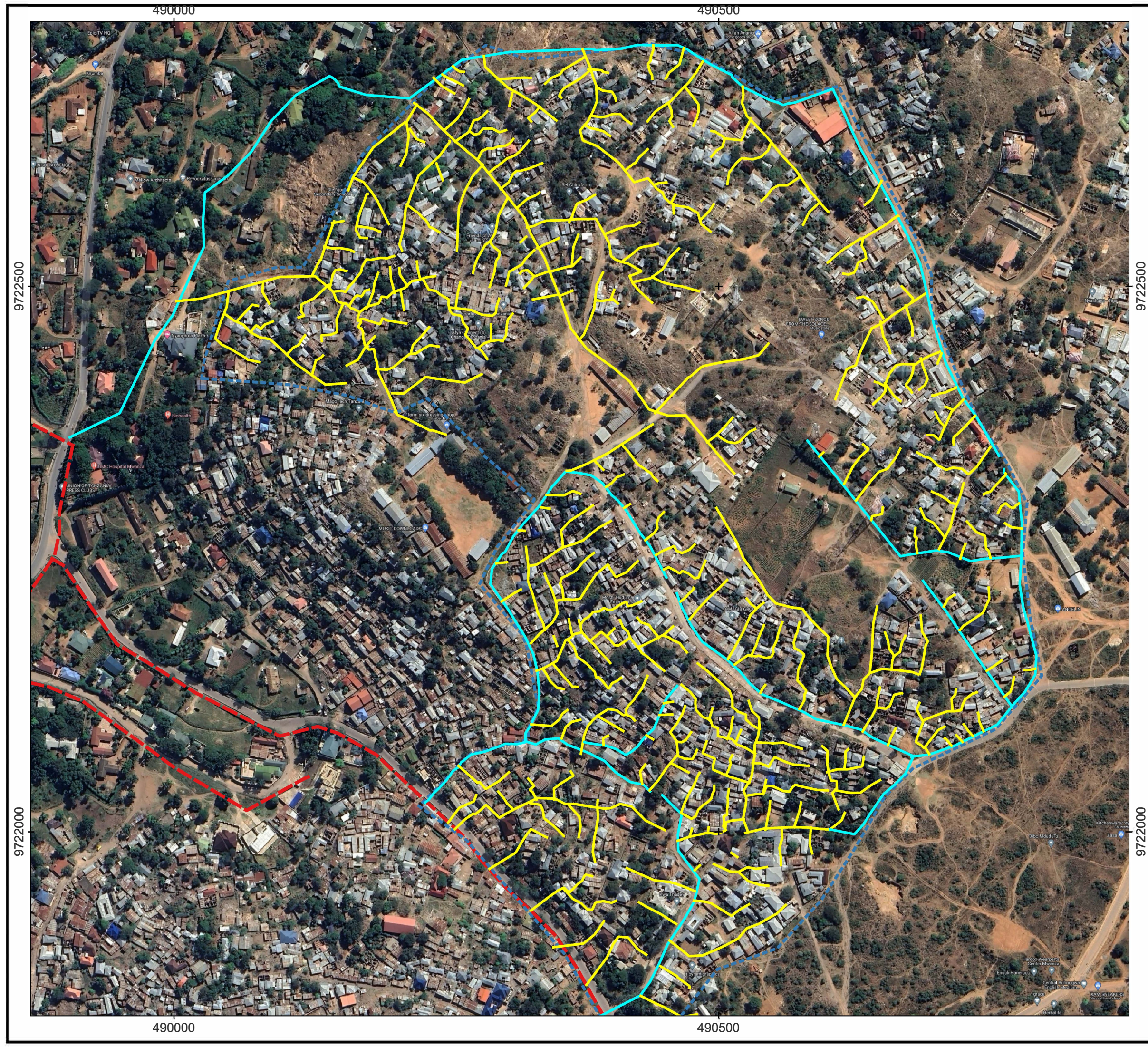
CONTRACT:

3-CONSTRUCTION OF PUMPING STATION, TRANSMISSION MAIN, RESERVOIRS AND DISTRIBUTION SYSTEM

DRAWING TITLE:

IGOGO SIMPLIFIED SEWER NETWORK

DESIGN BY:	T. Temba	DRAWN BY:	B. Mahenge						
CHECKED BY:	P. Gateru	APPROVED BY:	P. Gateru						
SCALE:	1:3,300	DATE:	June 2024						
CONTRACT No: MWAUWASA/LVWATSAN/AFD/WSS/1B/002/2024									
DRAWING NO. TZ/MWA/TP/477	Revision								
	A	B	C	D	E	F			
	G	H	I	J	K	L			



Legend

- Existing Public Sewer
- Ward Boundary
- Proposed Simplified Sewer
 - OD100
 - OD160
 - Zone Boundary



CLIENT:



MWANZA URBAN WATER SUPPLY & SANITATION AUTHORITY (MWAUWASA)
MAJI HOUSE - BALEWAR RD
P.O BOX 317, MWANZA
TEL: +255 282500547
FAX: NO: +255 282503231
EMAIL: info@mwauwoso.go.tz



FINANCIERS:




AGENCE FRANÇAISE DE DEVELOPPEMENT (AFD)

CONSULTANTS:

SEURECA  VEOLIA

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

IN ASSOCIATION WITH:



NETWORK FOR WATER AND SANITATION (NETWAS) TANZANIA LTD
MAJI HOUSE, PLOT NO. 49, BAHARI BEACH, KINONDONI
P.O.BOX 95843,
DAR ES SALAAM-TANZANIA

PROJECT:
WATER SUPPLY SYSTEMS FOR BUHONGWA, KISHIRI, KISESA AND USAGARA IN MWANZA CITY AND NEIGHBOURING AREAS

CONTRACT:
STAGE 1B-CONSTRUCTION OF PUMPING STATION, TRANSMISSION MAIN, RESERVOIRS AND DISTRIBUTION SYSTEM

DRAWING TITLE:
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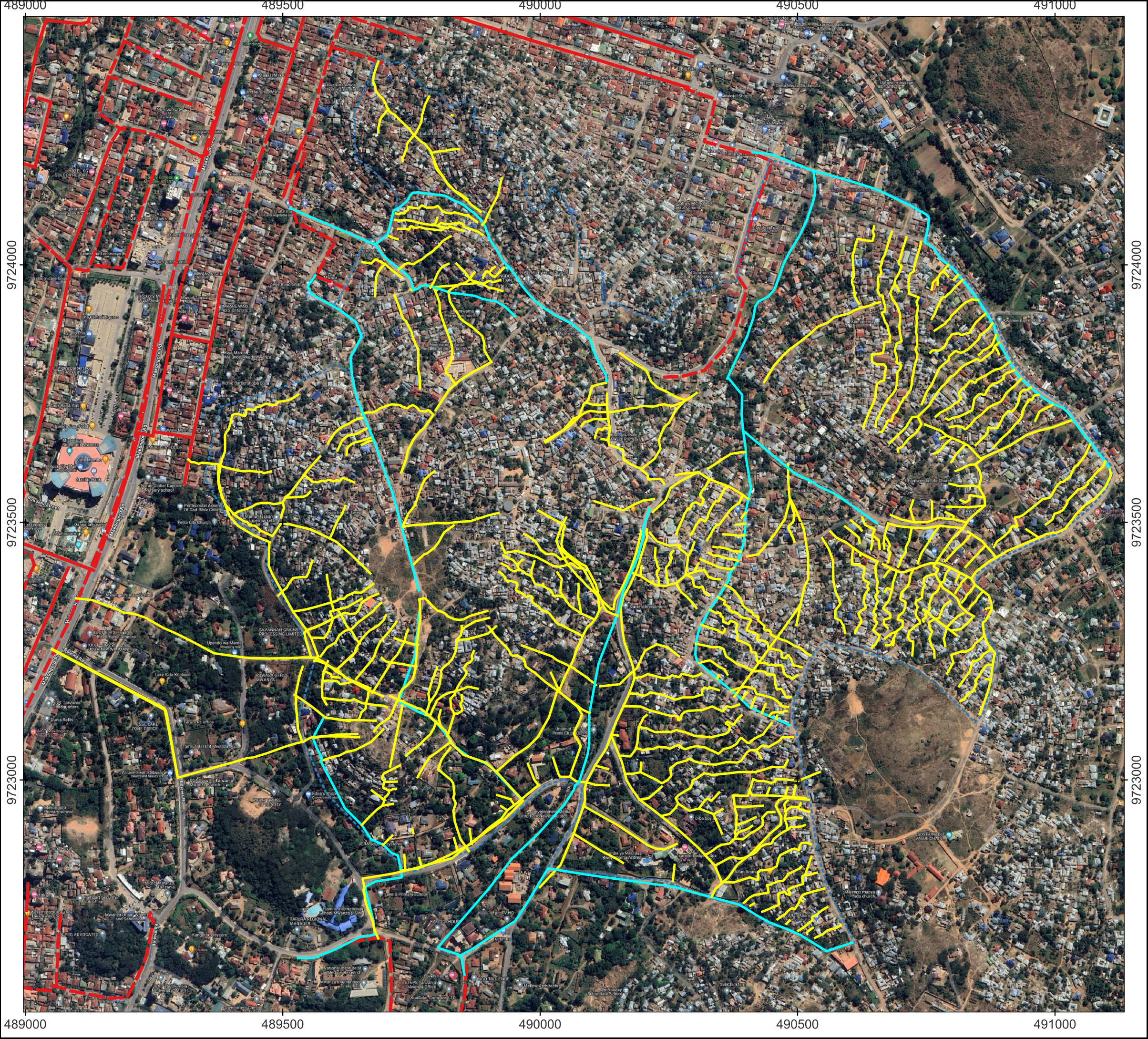
DESIGN BY:	T. Temba	DRAWN BY:	B. Mahenge
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CHECKED BY:	P. Gateru	APPROVED BY:	P. Gateru
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SCALE:	1:3,300	DATE:	June 2024
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CONTRACT NO: MWAUWASA/LWATSAN/AFDWSS/1B/002/2024

DRAWING NO. TZ/MWA/TP/477	Revision					
	A	B	C	D	E	F
	G	H	I	J	K	L



Legend

- Existing Public Sewer
- Ward Boundary
- Proposed Simplified Sewer
 - OD110
 - OD160
- Zone Boundary



CLIENT:



MWANZA URBAN WATER SUPPLY & SANITATION AUTHORITY (MWAUWASA)
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DAR ES SALAAM-TANZANIA

PROJECT:

WATER SUPPLY SYSTEMS FOR BUHONGWA, KISHIRI, KISESA AND USAGARA IN MWANZA CITY AND NEIGHBOURING AREAS

CONTRACT:

STAGE 1B-CONSTRUCTION OF PUMPING STATION, TRANSMISSION MAIN, RESERVOIRS AND DISTRIBUTION SYSTEM

DRAWING TITLE:

KILIMAHEWA SIMPLIFIED SEWER NETWORK

DESIGN BY:

T. Temba

DRAWN BY:

B. Mahenge

CHECKED BY:

P. Gateru

APPROVED BY:

P. Gateru

SCALE:

1:7,000

DATE:

June 2024

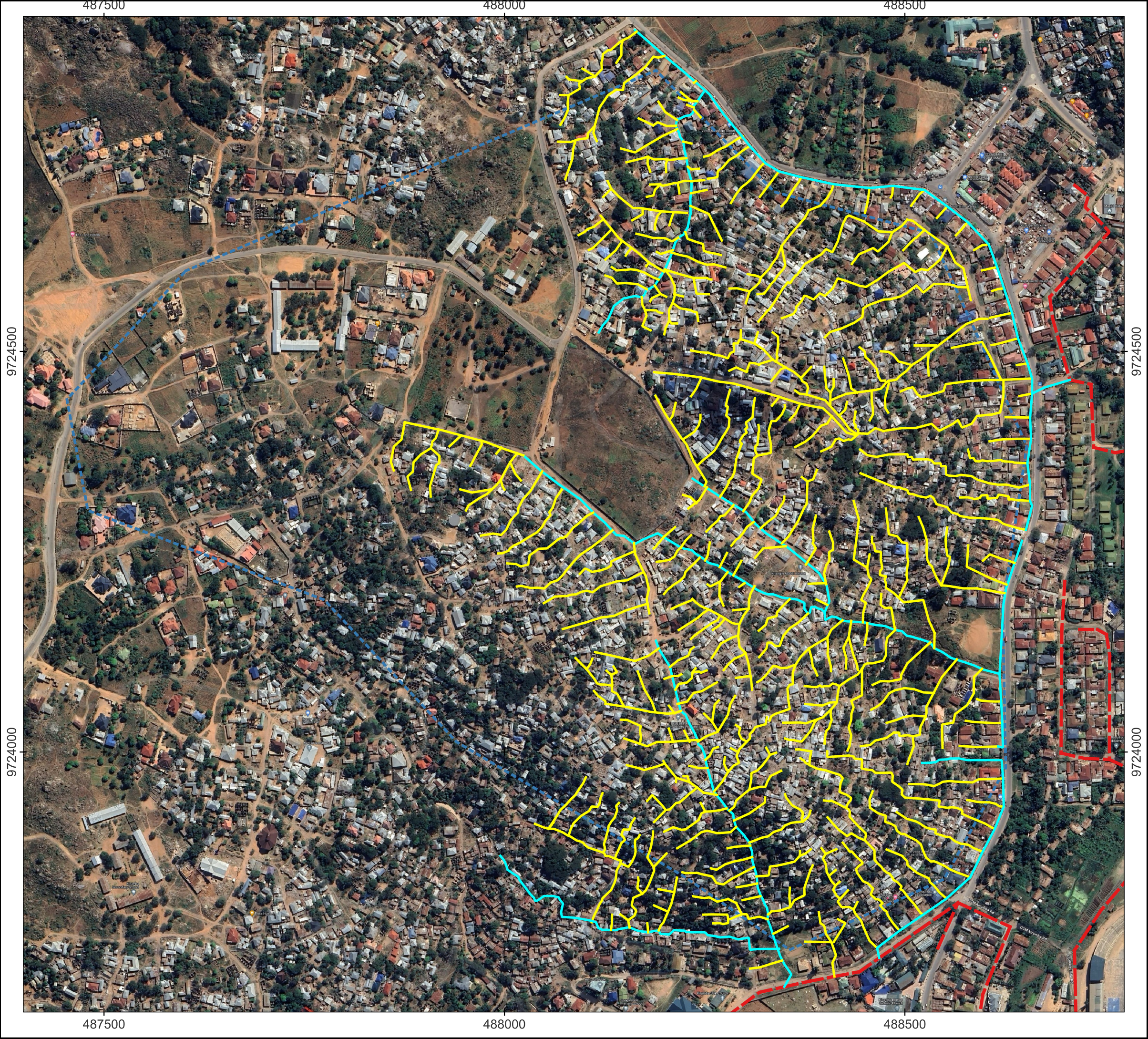
CONTRACT NO: MWAUWASA/LVWATSAN/AFD/WSS/1B/002/2024

DRAWING NO.

TZ/MWA/TP/477

Revision

A	B	C	D	E	F
G	H	I	J	K	L




Legend


- Existing Public Sewer
- Ward Boundary
- Proposed Simplified Sewer
 - OD110
 - OD160
- Zone Boundary



CLIENT:



MWANZA URBAN WATER SUPPLY & SANITATION AUTHORITY (MWAUWASA)
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DAR ES SALAAM-TANZANIA

PROJECT:

WATER SUPPLY SYSTEMS FOR BUHONGWA, KISHIRI, KISESA AND USAGARA IN MWANZA CITY AND NEIGHBOURING AREAS

CONTRACT:

STAGE 1B-CONSTRUCTION OF PUMPING STATION, TRANSMISSION MAIN, RESERVOIRS AND DISTRIBUTION SYSTEM

DRAWING TITLE:

KITANGIRI SIMPLIFIED SEWER NETWORK

DESIGN BY:	T. Temba	DRAWN BY:	B. Mahenge				
CHECKED BY:	P. Gateru	APPROVED BY:	P. Gateru				
SCALE:	1:4,500	DATE:	June 2024				
CONTRACT No: MWAUWASA/LVWATSAN/AFD/WSS/1B/002/2024							
DRAWING NO. TZ/MWA/TP/477	Revision						
	A	B	C	D	E	F	
	G	H	I	J	K	L	



Legend

- Existing Public Sewer
- Ward Boundary
- Proposed Simplified Sewer
 - OD110
 - OD160
- Zone Boundary



CLIENT:
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DAR ES SALAAM-TANZANIA

PROJECT:

WATER SUPPLY SYSTEMS FOR BUHONGWA, KISHIRI, KISESA AND USAGARA IN MWANZA CITY AND NEIGHBOURING AREAS

CONTRACT:

STAGE 1B-CONSTRUCTION OF PUMPING STATION, TRANSMISSION MAIN, RESERVOIRS AND DISTRIBUTION SYSTEM

DRAWING TITLE:

PASIANSI SIMPLIFIED SEWER NETWORK

DESIGN BY:

T. Temba

DRAWN BY:

B. Mahenge

CHECKED BY:

P. Gateru

APPROVED BY:

P. Gateru

SCALE:

1:4,800

DATE:

June 2024

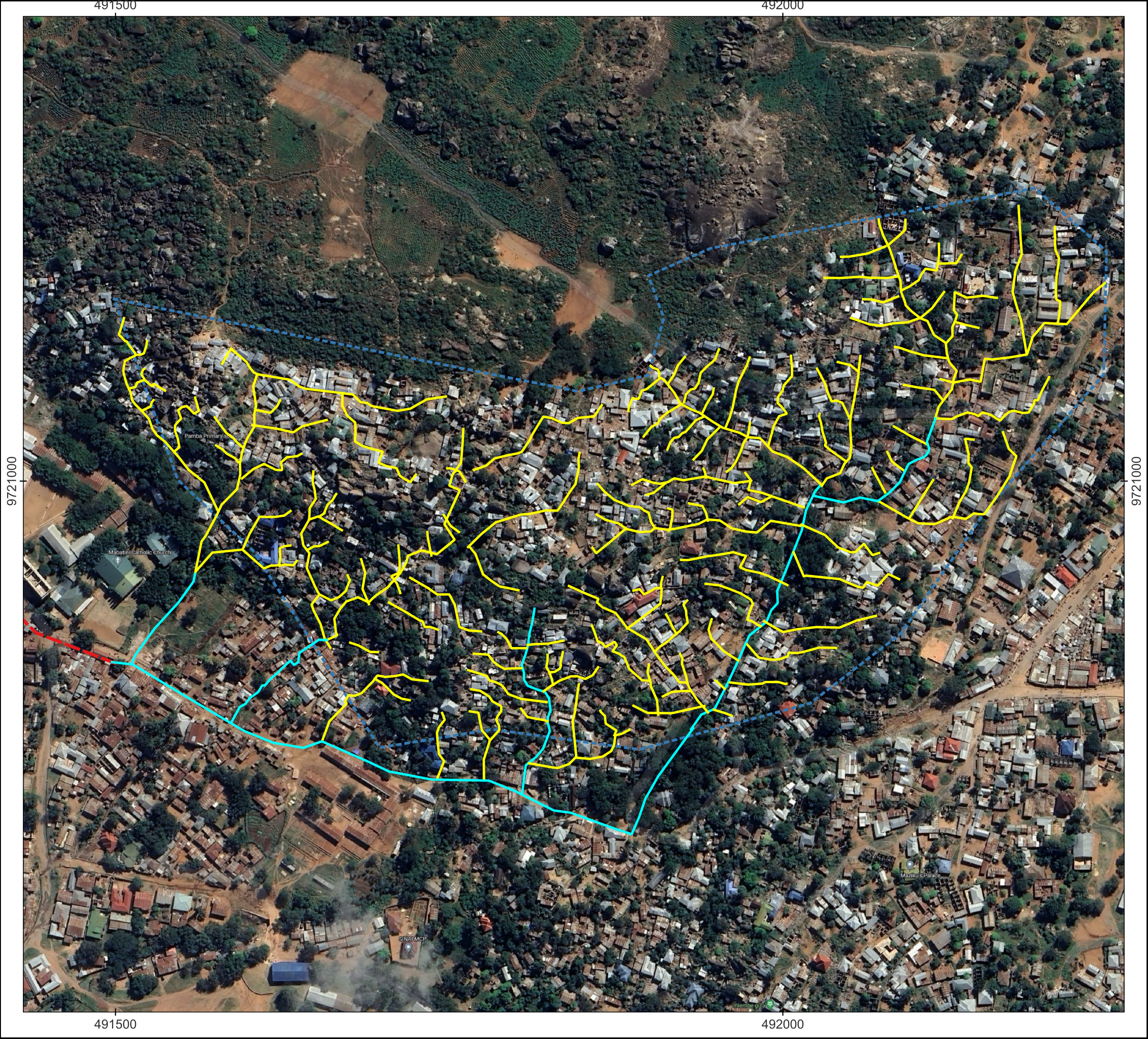
CONTRACT NO: MWAUWASA/LVWATSAN/AFD/WSS/1B/002/2024

DRAWING NO.

TZ/MWA/TP/477

Revision

A	B	C	D	E	F
G	H	I	J	K	L



Legend

- Existing Public Sewer
- Ward Boundary
- Proposed Simplified Sewer
 - OD110
 - OD160
- Zone Boundary



CLIENT:
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CONSULTANTS:



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P.O.BOX 95843,
DAR ES SALAAM-TANZANIA

PROJECT:

WATER SUPPLY SYSTEMS FOR BUHONGWA, KISHIRI, KISESA AND USAGARA IN MWANZA CITY AND NEIGHBOURING AREAS

CONTRACT:

STAGE 1B-CONSTRUCTION OF PUMPING STATION, TRANSMISSION MAIN, RESERVOIRS AND DISTRIBUTION SYSTEM

DRAWING TITLE:

USTAWI SIMPLIFIED SEWER NETWORK

DESIGN BY:

T. Temba

DRAWN BY:

B. Mahenge

CHECKED BY:

P. Gateru

APPROVED BY:

P. Gateru

SCALE:

1:2,700

DATE:

June 2024

CONTRACT NO: MWAUWASA/LVWATSAN/AFD/WSS/1B/002/2024

DRAWING NO.

TZ/MWA/TP/477

Revision

A	B	C	D	E	F
G	H	I	J	K	L

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