



TANGA WATER GREEN BOND

"Every Drop Counts"

Green Bond Framework September 2023









Impact Capital for **Development**





1.	Introduction
	1.1 About Tanga UWASA 3
	1.2 Tanga UWASA Sustainability Strategy3
2.	Tanga UWASA Green Bond Framework6
	2.1 Use of Proceeds6
	2.2 Process for project evaluation and selection7
	2.2.1 Tanga UWASA's Budget process7
	2.2.2 Evaluation and selection of green projects8
	2.2.3 Green Bond Committee Participants9
	2.2. Thematic & Sectoral Exclusion Criteria9
	2.3 Management of Proceeds9
	2.4 Allocation and Impact Reporting10
	2.4.1 Allocation report 10
	2.4.2 Impact reporting10
	2.5 External Review12
	2.5.1 Pre-issuance verification12
	2.5.2 Post-issuance verification12
3.	Version Control





1. Introduction

1.1. About Tanga UWASA

Tanga Urban Water Supply and Sanitation Authority (Tanga UWASA) is a sub-national entity, operating with autonomy. The company is active across the activities of extracting, treating, distributing clean and safe water to customers, as well as collection and safely disposal of wastewater from the urban residences of Tanga City, Muheza Town and Pangani Town. Tanga UWASA operates as a commercial entity, licensed, and regulated by the national Energy and Water Utilities Regulatory Authority (EWURA). EWURA regulates¹ Tanga UWASA's operations and economic affairs to ensure quality and affordable water services to the public.

The utility owns and manages the Mabayani water reservoir with a storage capacity of 7.7mil cubic meters, Mowe water treatment plant, Mkurumuzi intake and 10 boreholes. The Authority transmits and distributes water throughout its service area by a network of pipes stretching to 861.97 km having 42,514 water supply connections and 269 water kiosks, providing 31 million liters of drinking water every day. Currently, only a small portion of the City of Tanga is served by the sewerage network with 2,875 connections and the infrastructure is only limited to the central part of the City.

The utility's customer service centers are allocated according to zones to ease its operations and provide friendly access for its customers. The main office is located at Swahili Street, Tanga City CBD and there are 4 zonal offices in Pongwe satellite suburb, Mwakidila zone in southern part of the city, Pangani Town and Muheza Town.

Tanga UWASA's main customer base is the city of Tanga City, together with Pangani and Muheza Townships. This market translates into an estimated population of more than 451,885 people in 88,041 households. As of June 2022, the Authority was supplying water covering 96.7% of the City Population, 70% and 89% for Muheza and Pangani respectively. Based on projected water demand there is an opportunity for Tanga UWASA to double its clean water production capacity.

Tanga UWASA's main challenge ahead is the fast-growing rate of the population in the area it serves and the related urbanization, generating pressure on the supply side. To meet this growing demand, Tanga UWASA could double its water production capacity in the coming years. Tanga region's attractiveness and investments in industrial and commercial sectors have generated rapid population growth and migration of people from rural settlements to Tanga region.

In this context, Tanga UAWASA has established a strategy for water supply expansion. The water production will be made available with the investment on rehabilitation and expansion of water treatment facilities, increase production capacity, distribution network and installation of smart metering systems to enhance revenue collection. As such, more customers will be connected and served with clean water services.

1.2. Tanga UWASA Sustainability Strategy

Environmental commitments

Tanga UWASA's Sustainability Policy and Mission is to provide efficient services to its customers in a sustainable manner and protect public health and the environment through world-class, cost-effective water resource management. Protecting and maintaining the quality of drinking water sources is the primary focus for Tanga UWASA and in doing so it takes a holistic approach to produce resilient services over the long term. Its management program consists of measures to protect the rivers (see further details below) and reservoir(s) from sediment, pollution, and other sources of possible contamination that could affect the quality of drinking water in served areas. All water source and environmental protection initiatives are implemented in collaboration with the local communities living alongside and around the rivers (Zigi and Mkurumuzi), borehole sites and the Mabayani Dam.

¹ Tanga UWASA's operations commenced in July 1998 and its operation is governed by but not limited to the Water Supply and Sanitation Act No. 05 of 2019, Public Procurement Act No. 21 of 2004 (as amended in 2011 and 2016), EWURA Act No. 11 of 2001, Public Finance Act No. 15 of 2010 and the National Water Policy (NAWAPO) of 2002.





Among the developments for which funds are currently sought include the construction of wastewater treatment plant at Utofu area; about 22 km downstream of the Mabayani dam, where wastewater after treatment will be disposed to the Indian Ocean. Other solutions on the wastewater treatment side may include the use of constructed wetlands and therefore all the sewage generated from the public will be treated and safely disposes.

Tanga UWASA's Business Plan seeks to enable the utility to achieve its sustainability objectives and extension of water services to underserved areas within the service jurisdiction. The business plan adopts the requirements of the National Water Policy (NAWAPO 2002), the prospects of the implementation of the Water Sector Development Program (WSDP), Tanzania National Five-Year Development Plan III (2021/22 - 2025/26), the Tanzania Development Vision 2025 the Ruling Party Election Manifesto of 2020 - 2025 and the United Nations Sustainable Development Goal No. 6 - Clean Water and Sanitation.

The long-term development and sustainability targets of the utility which are in line with the Agenda 2030 are:

- i. Achieve universal supply of water for Tanga City and Townships of Muheza and Pangani by 2030;
- ii. Extend sanitation and sewage removal service to achieve universal access for Tanga City, Muheza Town and Pangani Town by 2030;
- iii. Protection and conservation of Zigi and Mkurumuzi rivers catchments in all 105 villages found along the catchments by 2030.

Tanga UWASA's main environmental objective is to conserve and protect Zigi and Mkurumuzi Rivers' water quality, which is the main water source for its served areas. In this regard, Tanga UWASA collaborates with other local, national, regional and international organizations, such as:

- UWAMAKAZI: The environmental conservation group, with a total of 1,540 members, aiming at protecting, limiting human activities, and conserving the upstream part of Zigi and Mkurumuzi Rivers. Involved activities will include smart agriculture, aquaculture, animal keeping and bee keeping which mean they will no longer be involved in the usual activities like river fishing, small scale irrigation agriculture along the riverbanks and sand digging for sale in order to meet their lives needs. The alternative activities will help them to improve their income and sustain their lives.
- Sustainable Land Management (SLM) Project: Enhances community awareness on environmental and water resources conservation, including a 60m buffer area, establishment of fishponds and improvement of community livelihood. The impact of the education provided include the safety of the riverbanks and existence of the protected area to allow vegetation and natural restoration of the river health.
- Eastern Arc Mountains Conservation Endowment Fund: Fosters conservation of forest biodiversity in the Eastern Arc Mountains of Tanzania, including via training on the good agricultural practices, tree planting (more than 200,000 in the catchment area including 21 villages) and entrepreneurship for conservation.

The above programmes were collaboratively formulated together with various stakeholders including the Government, other bodies entrusted with the protection and security of the water sources and environmental sustainability such as Pangani Basin Water Office (PBWO) and the National Environmental Management Council (NEMC). Other multinational organizations such as World Wildlife Fund (WWF) and the United Nations Development Program (UNDP) supported most of the early stages of programs formulation and co-funding together with the Government of Tanzania (GoT) through the Ministry of Water (MoW).

Social commitments

Tanga UWASA's social impact is significant in the area it serves, and the utility is committing to further deepening its impact to its community through various initiatives. The utility aims at improving the livelihood and serving better the ever-growing population in the context of the fast development of the city and townships. Tanga UWASA, by its activities, concretely contributes to achieving the following key objectives:

- Job creation in areas better served with water supply and through the expansion projects;
- Community empowerment for underserved population, especially in Muheza, Pangani, Horohoro and Kasera;
- Women empowerment, reducing the daily burden of water collection that falls on women and girls, promoting women entrepreneurship and girls 'attendance to schools;
- Improvement of public health and hygiene, particularly in the context of the area's strong population growth

4





and urban extension by provision of sufficient, clean and safe water and safely and efficient removal of wastewater from residential and commercial settings;

- Serving the urban poor, including provision of free water at a rate of 160 litres per day throughout the year to ensure inclusivity, and;
- Donation to the public schools and hospitals in different forms including support in the tooling and equipping their labs and other forms of collaboration programs.

Environmental, Health and Social (EHS) risk management assessments procedures

Tanga UWASA has an EHS risk management system in place to ensure safety of projects and people involved and in compliance with National regulations.

All project sites are assessed prior to implementation of any project and measures to ensure all risks are mitigated, managed or eliminated from the environment, the people (including project staff and communities around) and to comply to all legal and statutory requirements pertaining to environmental protection and safety of the people involved.

Tanga UWASA observes all the requirements of the Occupational Safety and Health Act (OSHA, 2003) in part to ensure that project implementation does not bear any legal consequences and fail to obtain social acceptance among the communities involved.

The risk management system covers:

- Risk assessments to identify potential risks and respective mitigations
- Conduct ESIAs as required for new projects
- Continues monitoring and periodic review of the risk management plan

Governance framework

Tanga UWASA's activities are regulated by the Energy and Water Utilities Regulatory Authority (EWURA) as governed by the EWURA Act, Cap 414 of 2006 (with its amendments). The utility is bound to existing regulatory framework including the Water Supply and Sanitation Act No. 05 of 2019, its respective Water Supply Regulation of 2019, the Water Resources Management Act No. 11 of 2009, Public Procurement Act of 2011, its regulation of 2013 (as amended), and other guidelines provided by the relevant Authorities such as EWURA (e.g., on tariff policy and license).

Tanga UWASA is governed by a Board of Directors with its chairman appointed by the Minister of Water in consultation with the Minister responsible for local government. The Board of Directors and the organization in general adheres to the global standards and practices of good corporate governance while recognizing the importance of integrity, transparency, accountability, and liability.

The Board has in place the following Board sub-committees to ensure a high standard of corporate governance throughout the Authority.

- Audit Committee (including risk management and controls), and
- Planning, Finance and Human Resources Management Committee

Since its inception in 1998, Tanga UWASA has demonstrated commitment to quality performance through the implementation of various strategic plans. The utility is an ISO 9001 certified entity under the Quality Management System (QMS) (June 2007) to ensure product safety to final consumers. In July 2016 the certification was upgraded to ISO 9001:2015. Recertification under the same standard was done in 2022 that lasts to June 2025.





2. Tanga UWASA Green Bond Framework

This Green Bond Framework presents how Tanga UWASA proposes to raise green funding to support the financing of water supply infrastructure projects. The Green Bond Framework is aligned with the Dar es Salaam Stock Exchange Green Bond Listing Rules and the International Capital Markets Association's (ICMA) Green Bond Principles 2021 (GBP) and addresses the following key pillars in line with the Green Bond Principles, namely:

- 1. Use of proceeds
- 2. Process for project evaluation and selection
- 3. Management of proceeds
- 4. Allocation & Impact Reporting and
- 5. External Review

2.1. Use of Proceeds

Under this Framework, the net proceeds of any green bond will be used to finance or refinance one or more new or existing Eligible Projects and Assets that align with the green and social categories indicated below. These are projects or assets that result in positive environmental and sustainable impact according to the list provided by the ICMA GBP 2021. Refinancing of Eligible Projects and Assets will have a look-back period of no longer than three years (36 months) from the time of the green bond issuance.

Tanga UWASA will ensure the environmental objectives related to Sustainable Water and Wastewater Management, Renewable Energy and Climate Change Adaptation are prioritized, with initial focus on the Eligible Projects and Assets categories per the table below.

Project Category as per GBP	SDG alignment	Eligible expenses & projects	Impact Area
Sustainable Water and Wastewater Management	Clean water and sanitation	 Rehabilitation and extension of the drinking water supply network Works for the reduction of unbilled water (installation of individual meters, measuring and leak detection equipment) Rehabilitation and extension of the sewerage network and water treatment plants Construction of drinking water storage tanks, water kiosks and water connections in areas where the services have not yet covered including the outer zones of Marungu (population 3612), Kirare (population 4,933), Chongoleani (population 5,882) and Mbugani (population 4,739) and Madanga (population 3,705) in Pangani Town and Mkwakwa-Mafleta (population 2,725) and Rusanga (population 4,754) in Muheza Town 	Expanding public access to safe and affordable drinking water
		• Rehabilitation and extension of wastewater collection and transport networks, wastewater treatment plants and sludge treatment facilities	Improve the efficiency of the wastewater cycle





Project Category as per GBP	SDG alignment	Eligible expenses & projects	Impact Area
Renewable Energy	<mark>۲ מוזפטאנו אמי ביייייייייייייייייייייייייייייייייי</mark>	 Tanga UWASA plans to implement several projects which supports use of friendly and renewable energy; Installation of solar energy infrastructures which will substitute the use of national grid for the supply of power in order to cut cost and operate with assured energy supply amid intermittent supply from the national grid; Installation of water disinfection systems that uses solar energy converted into electrical energy (solar powered chemical dosing pumps); Renewable energy based (solar, wind) for boreholes water pumping; Potential Biogas generation from wastewater available in the waste water stabilization ponds and DEWATS (implemented as a Pilot Project), and Potential use of sludge to produce Biocharcoal for domestic use (implemented as a Pilot Project) 	Use of renewable energy
Energy Efficiency			Improve energy efficiency
Climate Change Adaptation	13 RETAIL Climate Action	 Project for Zigi Riverbanks protection and control of watershed Sustainable Land Management (SLM) project involving terracing for the protection of the river against siltation 	Resilience to climate-related disasters

2.2. Process for project evaluation and selection

2.2.1. Tanga UWASA's Budget process

Tanga UWASA utilizes a robust and transparent annual process to prioritize capital allocation among projects. The utility maintains long-term financing plans for its Operation and Maintenance and Capital budgets. The typical budget process involves the following features:

- The Budget process requests identifying total needs, wants, and priorities submitted by staff and stakeholders.
- The Budget staff reviews the budget requests and run discussions with stakeholders.
- The budget is built based on a review, analysis, and prioritization of the projects.

Within the Budget process, projects are selected based on:

- Alignment with the current Strategic Plan, Facilities Plan and asset management needs, and the current Watershed Management Plan.
- Business case studies and community benefits (identify need, options, and preferred solutions).





• Multiple reviews by the Planning and Technical Staff (water supply & sanitation department), the Managing Director and the executive management, Board of Directors, and Ministry of Water's Management.

All the selected projects undergo a comprehensive environmental & social impact assessment where all ESG risks associated with the project are identified and managed through the mitigation measures & implementation regime laid down in the Environmental and Social Management Plan (ESMP).

2.2.2. Evaluation and selection of green projects

The projects selected under this framework aim to improve water supply and sewerage systems, but also conserve the environment and water sources, which are among the main objectives of the utility under its sustainability strategy. The projects also align with the government's priorities and development agenda as presented in the National Water Policy of 2002, the national Five-year Development Plan (FYDP- III) of 2021/22 – 2025/26 - Human Development: Water Sub-Sector Interventions, Tanga Region Development Plans, Tanga UWASA's Strategic and Business Plans which span for a period of 5 years (2020/21 - 2024/25) and 3 years (2020/21 - 2022/23) respectively.

Only projects that meet the eligibility criteria will be selected for financing with green bonds.

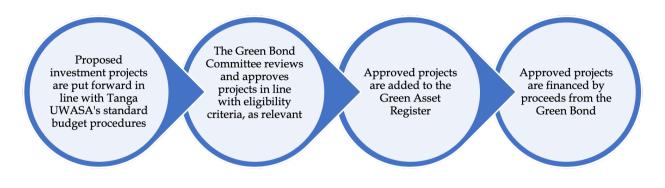
Tanga UWASA's Green Bond Committee (see next section for more details) will be established to oversee the selection of eligible projects and the allocation of proceeds to these projects. The Committee will also oversee impact reporting.

Once approved by the Committee, and in accordance with Tanga UWASA's own financial procedures, the selected projects and assets are then recorded in a Green Asset Register, which will then be used to keep track of the full list of eligible projects and assets as well as their respective earmarked amounts.

The Green Bond Committee is also responsible for governing the framework to ensure consistency of approach and oversight. If during the life of a green bond, a project or asset ceases to fulfill the eligibility criteria described in the Framework, the dedicated Committee will remove the project or asset from the Register and re-allocate the amount to other projects and assets that are eligible according to the processes and criteria described in this Framework. Re-allocation may only occur with projects and assets that have been verified by an external reviewer.

The Green Bond Committee will meet at least semi-annually or whenever appropriate to perform its mission. The traceability of decisions will be ensured by the use of documented meeting minutes by the Green Bond Committee.

Overview of the project selection process







2.2.3. Green Bond Committee Participants

The participants to Tanga UWASA's Green Bond Committee will include the standard budget and investment decision-making bodies as well as the Environmental & Sanitation Manager.

- The Managing Director and Executive Management;
- The Environmental and Sanitation Manager;
- Planning Staff;
- Technical Team (Professional from the Water Supply and Sanitation Directorate), and
- Ministry of Water (MoW) will be engaged during project development stage.

2.2.4. Thematic & Sectoral Exclusion Criteria

Projects that do not align with the specific Adaption and Resilience & international reference standards components shall be excluded.

Tanga UWASA also commits to not knowingly using the proceeds of the Green Bond to finance projects falling within, or indirectly supporting, the following categories:

- Waste-to-energy activities where removal of recyclables prior to incineration cannot be ensured
- Biomass or bio-fuel renewable energy projects of non-sustainable origin
- Projects with high environmental or social risks or that cause material harm to achieving Tanga UWASA's SDGs
- Fossil fuel energy
- Investments related to pure Internal Combustion Engines
- Gambling
- Tobacco
- Alcohol
- Weapons

2.3. Management of Proceeds

To ensure efficiency and increased confidence to investors, the net proceeds from the issuance of the bond will be held in a dedicated account set up to manage and track the disbursements of the proceeds (the "Collection Account"). The net proceeds are managed per bond (bond-by-bond approach). Depending on the legal requirements attached to the bonds' documentation, a Collection Account may be open for each bond issuance.

All the funding and disbursement for each project will be recorded in line with internal Tanga UWASA's accounting systems and processes.

Whilst it is Tanga UWASA's intention that all proceeds are allocated to eligible projects /assets as soon as possible after the bond is raised to ensure that the proceeds are effectively deployed, Tanga UWASA will maintain any surplus proceeds approved as Cash or Cash Equivalents in a segregated account until all proceeds are allocated. Such holding of surplus proceeds will be performed in line with Tanga UWASA's financial management standards.

Eligible Projects & Assets shall not be allocated to other green bonds, green loans or other labeled instruments (such as social bonds or SDG bonds) unless it is demonstrated by the Issuer that:

- Distinct portions of the Nominated Projects & Assets are being funded by different green bonds, green loans, or other labeled instruments; or,
- The existing green bonds, green loans, or other labeled instruments are being refinanced via another green bond, green loan, or other labeled instrument.

Any re-allocation of proceeds will be overseen by the dedicated Committee, which will ensure alignment with the requirements of the framework as well as the relevant GBPs.





2.4. Allocation and Impact Reporting

Tanga UWASA will publicly disclose an allocation and impact report, starting a year after the issuance of a Green Bond. From 1-year onward and throughout the lifetime of the Bond, the Issuer will publish such report every year, as well as a semi-annual interim report. These reports will be made available on Tanga UWASA's website and will be included in Tanga UWASA's Annual Financial Statement in the financial year following the issuance of the bond in a section dedicated to the 'Green Bond'.

The Green Bond Committee will be responsible for overseeing the production of these interim and annual reports.

2.4.1. Allocation report

The allocation report will provide a description of selected projects, information on the total amount of proceeds allocated to each of the eligible projects and assets. (In the case of partial financing of a project, reporting will also be provided on the entire project); the balance of unallocated proceeds; and the amount or the percentage of new financing and refinancing.

2.4.2. Impact reporting

Tanga UWASA will also, in line with emerging best practice, produce an impact report, detailing the green bond's environmental and social benefits resulting from the projects, and how the projects conform to the progress agenda of the United Nations Sustainable Development Goals (UN SDGs).

The impact report will include information on major accomplishments achieved with the investments for the lifetime of the bond, including: the impact of the transaction on the rehabilitation and expansion of water treatment facilities, the increase in pumping capacity, extent of the distribution network extension and the installation of smart metering systems to improve revenue collection. The table below provides a sample of achievement and impact indicators that are communicated for each allocation & impact reporting process (illustrative).





Project Category as per GBP	SDG alignment	Eligible Projects	Outcome indicators set	Impact indicators set
Sustainable Water and Wastewater Management	Clean water and sanitation	 Rehabilitation and extension of the drinking water supply network Works for the reduction of unbilled water (installation of individual meters, measuring and leak detection equipment) Rehabilitation and extension of the sewerage network and water treatment plants Construction of drinking water storage tanks and water kiosks, water connections and sanitation facilities in target localities Rehabilitation and extension of wastewater collection and transport networks, wastewater treatment plants and sludge treatment facilities 	Km of water distribution network built Volume of drinking water supplied Number of inhabitants benefiting from wastewater collection and treatment facilities for the first time Number of water treatment plants built Number of new tanks Absolute annual amount of wastewater treated or avoided before and after the project (m3/a) Volume of untreated wastewater that is treated or	 % of population with daily access to potable water and basic sanitation % future connection to drinking water in the area concerned (calculated dynamically on an annual basis) % of reduction in water leakage from pipes % reduction in diseases related to poor water quality (diarrhoea episodes, especially among children) % of public buildings (including schools) with basic drinking water coverage; basic sanitation facilities; basic hand washing facilities Annual water savings (m3/ year, reduction in water consumption in %)
Renewable Energy	Affordable and Clean Energy	Among the projects aimed for pilot implementation in the Financial Year 2023/24 include; i. Water kiosks (autonomous water treatment systems powered by solar panels) ii. Water disinfection systems by simultaneous use of solar energy converted into electrical energy Renewable energy based (solar, wind) production and filtration systems iii. Potential Biogas generation from sewage sludge	disposed-of Number of renewable energies based (solar, wind) production systems builder/ year Number of biogas generation production unit Number of biogas generation unity storages	Renewable energy generation (kWh) and GHG emissions reduction (tons of CO2e/annum





Project Category as per GBP	SDG alignment	Eligible Projects	Outcome indicators set	Impact indicators set
Energy Efficiency	Affordable and Clean Energy	 Future projects to be defined related to energy conservation and efficiency in the processes Circular economy solar energy project 	Number of projects of energy conservation and efficiency developed Number of solar projects developed by using circular economy technics	% additional electricity generated through energy efficiency % of solar energy generated from wastewater recycling (turbine) GHG emissions reduction (tons of CO2e/annum)
Climate Change Adaptation	13 KHATE Climate Action	 Project for Zigi River Banks protection and control of watershed Sustainable Land Management (SLM) project involving terracing for the protection of the river against siltation 	Maintained river water flow per annum Quantity of Total Suspended Solids (TSS) reduced per annum Introduction of alternative economic activities including agriculture, aquaculture etc.	Areas protected (m2) to ensure Sustainable water source Number of trees planted and gown to maturity Improved livelihood for the upstream community

2.5. External Review

2.5.1. Pre-issuance verification

Tanga UWASA will seek pre-issuance assurance from an experienced second-party opinion provider that the framework aligns with the ICMA GBP. The pre-issuance assurance report will be made available on the Tanga UWASA website, along with the framework.

2.5.2. Post-issuance verification

Within one year of issuance and on an annual basis until maturity of the bond, Tanga UWASA will engage an external reviewer to evaluate how selected projects meet the specific eligibility criteria as set out in this framework in accordance with the ICMA Green Bond Principles and the DSE Green Bond Listing Rules.

3. Version Control

This Green Bond Framework may be regularly reviewed, changed, and updated. A version control system will be maintained by Tanga UWASA, and each version of this Framework will be made available on the company's website prior to the issuance of the first bond





Annex 1: Project Costs

No	Expenditure Items	TOTAL COST (TZS)	
1	Water and Sewerage Infrastructures Improvement Projects		
1.1	 Rehabilitation and expansion of Mabayani raw water pumping infrastructures Rehabilitation of raw water intake; Construction of additional raw water intake, and Installation of four (4) new water pumps with double the capacity compared to the existing ones 	13,922,264,041	
1.2	 Expansion of Water Treatment Plant Construction of one (1) new pulsator clarifier, and Construction of six (6) new rapid sand filters 	9,804,487,221	
1.3	 Improvement of Water Distribution and Sewerage Infrastructures Extension of water distribution network (pipes) by 60 km Connection of 6,000 new water customers in Tanga, Pangani and Muheza; Construction of 35,000m3 new water storage tank at Mowe WTP; Rehabilitation of 110km dilapidated water distribution network of pipes; Formation of district metered areas (DMAs) within the pipe network; Rehabilitation of 10km dilapidated sewerage network of pipes 	24,868,628,950	
1.4	 Smart Pre-paid Water Metering Replacing 12,000 aged water meters by installing new Pre-paid water meters for customers with arrears 	4,000,000,000	
	Sub-Total	52,595,380,212	
2	Environmental Improvement and Climate Resilient Projects		
2.1	Water Sources protection and conservation for Zigi and Mkurumuzi Catchments	524,619,788	
	Sub-Total	524,619,788	
	TOTAL INVESTMENT	53,120,000,000	



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