

# MWANZA SEWER CONNECTION UPGRADE HIGH PRIORITY INVESTMENT PROJECT

November  
2022

## KEY INFORMATION

- ◆ A High Priority Investment for the City of Mwanza, Tanzania
- ◆ Water and Sanitation Sector
- ◆ Implemented by the Lake Victoria Basin Commission through the Integrated Water Resources Management Programme for the Lake Victoria Basin – (LVB IWRMP)
- ◆ Co-funded by KfW, the European Union, and the United Republic of Tanzania
- ◆ KfW and EU grant funding: EUR 5.3 Million
- ◆ National counterpart contribution: EUR 0.5 Million
- ◆ Estimated total investment cost will be in the order of EUR 5.8 Million.
- ◆ Partners: Mwanza Water Supply and Sanitation Authority (MWAUWASA), The United Republic of Tanzania Ministry of Water (MoW), Expected implementation period: 2023-2025



## OUTCOMES

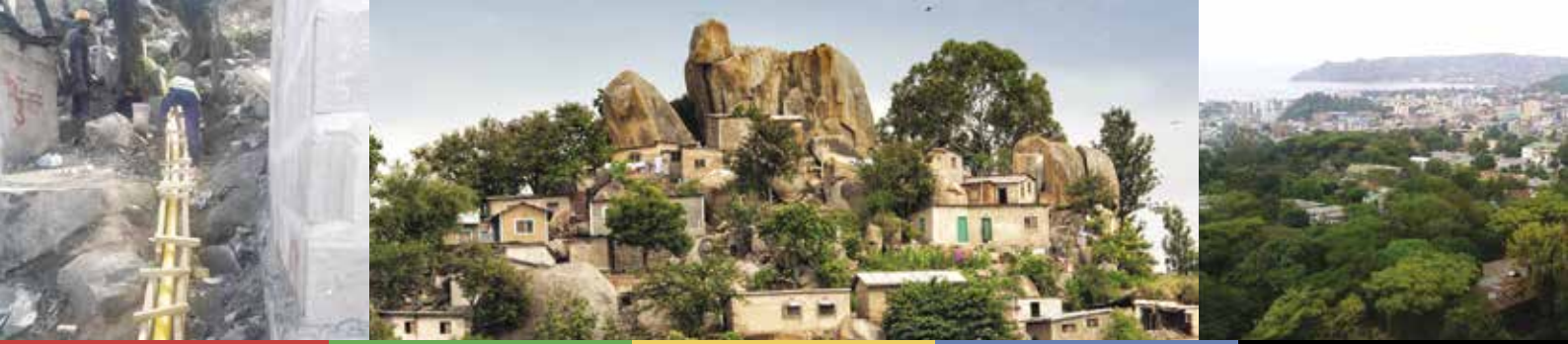
- Reduced flow of untreated effluent into the Lake Victoria
- Improved access to proper sanitation facilities that promote public health due to appropriate and adequate disposal of wastewater
- Improved operational efficiency and effectiveness of wastewater collection and treatment



## OBJECTIVES

- To improve wastewater management in the City of Mwanza through increased connectivity of city residents to the Central Sewer Network
- To increase access of the population to improved sustainable and reliable sanitation services
- To reduce raw sewage discharge into Lake Victoria which is a source of livelihood for surrounding communities
- To increase the utilization of the Ilemela Wastewater Treatment Plant to its installed capacity
- To improve community awareness on sanitation and hygiene





## BACKGROUND

Mwanza is the second largest city in Tanzania and is located on the southern shores of Lake Victoria. The city has over 700,000 inhabitants.

The following activities will also be undertaken as part of the project:

Rehabilitation of the existing sewerage network and pumping stations: this would ensure that the new infill sewers will be connected to a properly functioning existing sewer network to avoid frequent sewer blockages and also ensure that the pumping stations will function at their design capacity. The scope of work will be determined based on a conditional survey of the actual sites.

Rehabilitation of existing on-site sanitation facilities: to ensure that an adequate quantity of wastewater is collected and conveyed to the Ilemela Wastewater Treatment Plant. Therefore, it may be necessary to convert existing onsite sanitation facilities such as pit latrines to pour-flush systems prior to connection to the sewer.

Increase in water connections: The proposed infill sewers will be part of a waterborne system, resulting in a flow which is dependent on the fluid characteristics of wastewater. Low water coverage will lead to inadequate flows and frequent blockages of the sewers. It is therefore recommended that in case of limited water supply, a component of water supply should be included in the proposed investment to increase water supply coverage.

## THE SPECIFIC SCOPE OF WORKS COMPRISES OF THE FOLLOWING:

- Construction of 14.4 km infill sewers to collect and convey wastewater generated from households in two project areas: (1) Kirumba (including Kitangiri, Kirumba, Pasiansi and Nyamanoro wards) and (2) Igoga, to the Ilemela Wastewater Treatment Plant
- Rehabilitation of the existing sewerage network and pumping stations
- Construction of 1,600 Household Sewer Connections, including inspection chambers, interceptors and Y-junctions, based on a sewer connection strategy and action plan
- Convert existing onsite sanitation facilities such as pit latrines to pour-flush systems.
- Acquisition of additional exhauster trucks
- Conducting a Hygiene Sensitization and Awareness Campaign in the two project areas.

## INVESTMENT COSTS AND FINANCIAL CONTRIBUTION

MWANZA INVESTMENT BUDGET		
ITEM	DESCRIPTION	EUR
1	Construction of 14.4 km, 200 mm diameter infill sewers	1.692.716
2	External works for construction of 1,600 household sewer connections, including inspection chambers, junctions and piping	470.319
3	Internal works for construction of 1,600 household sewer connections	856.482
4	Rehabilitation works of the existing sewerage network, pumping station and Ilemela wastewater treatment plant	228.494
5	Supplementary investments in pumps, vacuum trucks and other equipment	1.125.000
6	Other costs and contingencies	925.000
<b>Total Investments (excl. VAT)</b>		<b>5.298.011</b>



**LAKE VICTORIA BASIN**  
Integrated Water Resources Management

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