

Rwanda Sustainable Water Supply and Sanitation Program (RSWSSP)

Project Brief note

November 2019

KIGALI CENTRALIZED SEWAGE SYSTEM (KCSS)

1. Introduction

The City of Kigali, with 1.3 million inhabitants, has neither a centralized treatment facility for sewage nor a system of central sewer networks. Apart from a few standalone semi-centralized sewage treatment systems, septic tanks with soak away pits are predominantly used, together with pit-latrines, despite their impact on ground water resources especially in an urban environment. Untreated sewage is disposed inappropriately into the environment.

The Rwanda Wastewater Design Stage 2 report (2012) advised a wastewater project to serve the central business district of Kigali which consists of gravity sewers and a wastewater treatment works located outside of the city.

Kigali Centralized Sewerage System is one of the key projects under Rwanda Sustainable Water Supply and Sanitation Program and the program will alleviate this problem by developing the first centralized sewerage system in Kigali city and will also address the wastewater and solid waste management needs of the 6 satellite cities.

2. Objective

2.1. General Objective

Improve collective sanitation services through consumer connections to a networked sanitation service within the city of Kigali, along with the construction of a wastewater treatment plant.

2.2. Project specific objectives

- Improve collective sanitation services through consumer connections to a sewer networked in the City.
- Protect the environment of Kigali water catchments and the Nyabarongo River
- Improve the hygiene and public health situation
- Reduce deterioration of the quality of groundwater resources
- Support the economic development of the City of Kigali

3. Served Areas

Kigali centralized sewerage system project will be implemented in four phases and currently the detailed studies for phase one of this project which covers the Central Business District (CBD) of Kigali, Nyarugenge and Muhima zones. The system is also designed to accommodate extension of the network to other areas of Kigali City in the future.

4. Project Outputs

The envisaged Kigali Wastewater Project includes:

- ✓ Sewerage collection from the central part of Kigali, comprising **89 km** sewer network,
- ✓ A **3.1 km** trunk main sewer to transport the collected wastewater to the wastewater treatment plant.
- ✓ A wastewater treatment plant to treat this wastewater with the capacity of **12,000m³/day** and maturation ponds, located in Nyabugogo (10 ha site).

5. Population served by the project

Population equivalent (p.e) of 120,000 while the ultimate footprint and layout of the plant will allow treatment of approximately 550,000 p.e

6. Cost: 96 million EURO

7. Main Partners

#	Partner	Amount (EURO m)
1	African Development Bank (AfDB)	45
2	European Investment Bank (EIB)	43
3	Government of RWANDA (GoR)	8

8. Overall planning of the project

#	Key Activity/Deliverable	Status
1	Consultant in charge of RAP Development and Supervision of works	On board since December 2018
2	Contract for works: under procurement phase	Planned to be on board by February 2021
3	RAP Preparation and implementation for the WWTP site	March 2019 to March 2021 (88%)
4	Construction works	March 2021 to March 2024
5	Provisional Handover	March 2024
6	O&M Period including Defect Liability Period	2 years

9. Project stakeholders

Like almost infrastructure projects, the Kigali Sewerage Project is being implemented by WASAC Ltd with collaboration of different stakeholders mainly, but not limited to: African

Development Bank (AfDB), European Investment Bank (EIB), Ministry of Infrastructure (MININFRA), Ministry of Finance and Economic Planning (MINICOFIN), Ministry of Environment (MoE), (Rwanda Environment Management Authority (REMA), Rwanda National Police (RNP), Rwanda Transport Development Agency (RTDA), City of Kigali (CoK), Nyarugenge District, Rwanda Energy Group (REG), KT Rwanda Network, NPD.