



## **Name of Project: East Nairobi Sewerage Project-Phase I**

### **DESIGN BUILD AND FINANCE PROJECT**

#### **EXPRESSION OF INTEREST FOR FUNDING DESIGN AND BUILD FOR THE PROPOSED EAST NAIROBI SEWERAGE PROJECT-PHASE I**

##### **TENDER NO. AWSB/EPCF/RE01/02/2017**

#### **1. General background**

Athi water service board was established under water act 2002 in accordance with the provisions of the State Corporations Act Cap 446 of the Laws of Kenya, as an autonomous agency reporting to the Ministry of Water and Irrigation, it became operational on October 2004.

The Board was created to improve delivery of water and sewerage services within areas of its jurisdiction which include Nairobi county, Kiambu county, and Gatanga constituency.

#### **2. Project background**

There are approximately 24 sewage treatment works in **Nairobi City County**, with approximately 40% of the city area that is served sewerage network. The waste water flows generated in Nairobi is roughly 400,000m<sup>3</sup>/day, only around 32,000m<sup>3</sup>/day and 112,000m<sup>3</sup>/day of waste water reach the 2 major treatment plants in Nairobi region; Kariobangi and Dandora waste water treatment plants (WWTP) respectively.

The need for provision of clean and affordable water supply and sewerage services to Eastern Nairobi area residents is therefore of outmost importance. It is in this light that the proposed East Nairobi Sewerage Intensification Project is being prioritized to improve sanitation access to East Nairobi residents.

#### **3. Project area**

The proposed Nairobi East and satellite towns Sewerage Intensification Project addresses the sewage clean-up in the city of Nairobi through collection, conveyance, treatment of wastewater, and Waste Water Recycling & Reuse.

Nairobi is the Capital of Kenya and one of the largest cities in Africa. Nairobi City is the international, regional, administrative and economic hub for Kenya. The city generates approximately 60% GDP. Nairobi City County is located 1°17'31.44"S and 36°49'19.01"E, at an altitude of 1,795metres above sea level and covers an area of approximately 694.9km<sup>2</sup>.

The project is to increase sewerage to Eastern Nairobi City. It will be implemented in the target areas of Utawala, Mihang'o Ruai, Umoja, Kangundo Road, Kayole, Embakasi, Donholm, Buruburu, Jogoo Road, Industrial area and Enterprise road environs serving a total population of about 300,000 residents.

#### **4. Previous investigations and reports**

The Sewerage Improvement Project is part of the Nairobi East Sewerage Intensification Project. The project has been elaborated in the Integrated Sanitation Management Plan for Nairobi and Selected Satellite Towns (1998 and 2017). The project focuses on the sewerage infrastructure in Nairobi East so that the wastewater being generated in the city and the towns is collected and directed to treatment facilities without being an environmental hazard.

#### **5. Request for expression of interest**

Athi Water Services Board hereby invites competing proposals to source for funds, build and transfer East Nairobi Sewerage Project with sewerage treatment plants & trunk & reticulation sewers from interested joint ventures of construction companies and consultants firms with capabilities to identify suitable financier for the project.

#### **6. Scope of works**

##### **6.1 Sourcing of funds**

The following should be taken into account when sourcing for funds

- i. Terms of Payment including interest rates, payment period and grant element
- ii. Credit terms to be within the limits acceptable by the Ministry of Finance.

##### **6.2 Sewerage Network and treatment**

Carry out social economic, environmental, geotechnical and hydrological study of the proposed works.

- i. Carry out detailed sewerage design including trunk & reticulation sewers
- ii. Carry out detailed sewerage treatment works design
- iii. Carry out detailed analysis of waste water re use and recycling.

The proposed scope will involve Rehabilitation and Construction of 2 Nr. Sewerage treatment plants each of capacity 80,000m<sup>3</sup>/day, Laying of 180km trunk sewers, and 300km reticulation sewers

##### **6.3 Construction works**

Construction phase should be done within the minimum period of 2 years and the terms and the constructed works must meet best industry standards.

7. Athi Water Services Board now invites eligible joint ventures of contractors and consulting firms ('Consultants') to indicate their interest in sourcing of funds, providing the consulting services and construction of works. Interested Joint Ventures should provide information demonstrating that they have the required financial capabilities or backing technical qualifications and experience to perform the services and works. Pre-qualification/shortlisting criteria are;
  - i. Experience in implementation of two "fund, design and build" works of similar nature and complexity in the last 10 years.

- ii. Experience in similar Conditions i.e in developing country.
  - iii. Availability of appropriate skilled staff including GIS Expert, waste water Expert, Structural Engineer, Geotechnical Specialists, land economist, Environmental Expert, Health and Safety Expert, Construction Manager, Construction Supervisors and Foremen, etc.
- 8.** Invitation for Proposals will be issued to qualifying shortlisted firms. Competitive Bidding will be conducted in accordance with the Government of Kenya ***Procurement Law and Regulations***.
- 9.** Interested Joint Ventures may obtain further information at the addresses below between 0800hours to 1700hours from Monday to Friday excluding public holidays.
- 10.** Prospective bidders are advised to register their details and seek for clarification if any via email [info@awsboard.go.ke](mailto:info@awsboard.go.ke). The requests for clarifications deadline is **14 Days to the Closing date**, the response to clarifications will be posted to the AWSB website [www.awsboard.go.ke](http://www.awsboard.go.ke),
- 11.** Expression of interest must be delivered or emailed to the address below by **6<sup>th</sup> February, 2018** not later than 12.00hrs East African Time.

**Chief Executive Officer  
Athi Water Services Board  
3<sup>rd</sup> Floor, Africa Re Centre,  
Hospital Road, Upper Hill  
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Nairobi, Kenya,  
Email : [info@awsboard.go.ke](mailto:info@awsboard.go.ke).**

Clearly Marked:

“EXPRESSION OF INTEREST FOR FUNDING DESIGN AND BUILD FOR THE PROPOSED EAST NAIROBI SEWERAGE PROJECT- PHASE 1, TENDER NO. AWSB/EPCF/RE01/02/2017”.