**KITUI WATER & SANITATION CO. LTD**

**kitwasco.co.ke**



**COMPANY BRIEF**

**© February**

# PREAMBLE:

Kitui Water and Sanitation Company is a major Water and Sanitation service provider with Kitui County and some parts of Machakos County (Masinga Sub- County).

Kitui County is located 170KM South East of Nairobi. It covers an area of about 30,496KM2.It bounders Machakos and Makueni Counties to the west, Tana River County to the East, Taita Taveta County to the South and E mbu and Tharaka-Nithi Counties to the North.

Population: 1,147,000

Femasle: 602,002

Male: 545,195

Growth Rate: 2 %

Water Coverage:…………………….

Population Served:……………..

Kitui Water & Sanitation Co. Ltd is a limited company by guarantee and was incorporated on 10th April 2006. The Company has the core mandate of providing water to Kitui Municipality, its environs and part of Machakos County where the main source is located. The Company is currently serving the following districts with piped water: Masinga, Kitui West, Lower Yatta, Kitui Central, Matinyani, Nzambani, Mutomo, Kisasi and Katulani. However, with the bowsers we have been able to serve customers in other districts like Mutitu, Machakos and Ikutha. This accounts for coverage of 39% serving a population of close to 550,000.

The Company Headquarters are in Kitui Town and has Regional Offices in Masinga Treatment Works, Kithyoko, Katheka, Matinyani, Ikanga, Mutitu and Mutomo Trading Centres.

Masinga Dam is the main source of water accounting for 90%. Other sources are Ithookwe, Matinyani, Ilusya, Mbooni and Mutune boreholes. The completion of Umaa Dam shall also supplement on the peak demand and ease rationing programmes during the dry season. The Company has benefitted from Masinga - Kitui Water Supply and Sanitation Project Phase II under the African Development Bank through Tanathi Water Services Board.

The Company has a Customer Service Delivery Charter and has the following pay points M-Maji (Co-operative Bank M-Pesa Module), all Post Offices in Kenya, all Kenya Post Office Savings Bank and all Kenya Commercial Bank branches.

# VISION, MISSION & MANDATE

## Vision

*“To be the best water and sanitation service provider in the Republic of Kenya”*

## Mission

*“To provide sustainable, safe and adequate water services for domestic, industrial and commercial use in a cost effective manner and effectively manage the resultant waste water with a committed and motivated human resources”*

## Core Values

# 1.0 BACKGROUND AND HISTORY

TheKitui Water and Sanitation Company Limited (KITWASCO) was incorporated on 10th April 2006 under the Companies Act (Cap. 486). The Company is limited by guarantee and is governed by a Memorandum and Articles of Association. KITWASCO is one of the agents appointed by the Tanathi Water Services Board (TAWSB) to supply water and sanitation services within Masinga, Kitui Central, Katulani, Kisasi, Matinyani, Nzambani, Kitui west and lower Yatta districts and their environs.

Kitui Water and Sanitation Company is currently operating Masinga – Kitui Water Supply, Matinyani Water Supply, Mutune Water Supply, Ikanga/Mutomo, Ithookwe and Mbooni Water Supply schemes within the former greater Kitui district. The headquarters is in Kitui Town which is located approximately 175km South East of Nairobi. The town is the administrative Headquarters of Kitui County Government, Kitui Central District and a main commercial hub of the greater Kitui region.

The region is currently served by the Masinga - Kitui Water Supply Project to a greater extent which was first implemented in 1996 through funding by the Government of Kenya and Development Partners. The resident population of the area of service including Kitui Township is estimated to be 533,681 and projected to grow to 678,187 by the end of this planning period (2033). There has never been a major rehabilitation of the distribution system from the main distribution reservoirs to Kitui town. The Masinga Dam source has a treatment capacity of 8,640m³/day. The existing water supply is only able to serve 39% of the area demand given its infrastructural constraints and water availability. Currently the number of registered connections is 8,839 with about 6,231 being active connections. KITWASCO customers are composed of: - Domestic/Residential; Commercial/Industrial; Schools/Institutions; Water Kiosks and bulk community water projects. Although the mandate of provision of sanitation is included, there is no sewerage service under KITWASCO. Sanitation services in Kitui are provided at a fee though not adequate.

# 3.0 INSTITUTIONAL MANAGEMENT AND HUMAN RESOURCES

## 3.1 Organisation Chart

KITWASCO is run by a Board of Directors with a membership of 7. Initially members were elected in public forums but in line with corporate governance guidelines, the members are appointed by the Principal. The Board of Directors functions through four committees namely: -

* Audit Committee
* Technical Committee
* Finance Committee
* Human Resource Committee

The management which is composed of The Managing Director, Technical Manager, Commercial Manager and Human Resource & Administration Manager runs the day to day affairs of the Company under the leadership of the Managing Director. KITWASCO has four major departments namely: -

1. Commercial Department: Accounts & Revenue Sections
2. Technical Departments: New Connections, O & M, Transport
3. Human Resources & Administration: Customer Care, General Administration
4. Directorate Department: Audit and Public Relations.

The Company has a permanent work force of 75 staff and 27 casuals. This has been occasioned by the ever expanding network, low customer & staff integrity levels and dilapidated infrastructure. Also the Company is operating on a 24-h 7 days a week programme and 90% rural, the permanent staff cannot handle the workload due to the great reticulation lengths with minimal connections.

## 3.2 List of Board Members

The Current membership is composed of: -

a) Rev. Joseph Simba – Chairman (Representing Christian Community).

b) Evelyn Kyeni Mutia – Representing Mutomo Region.

c) Patrick Kiusya – Representing NGOs (Catholic Diocese of Kitui).

d) Khadija Abdallah – Representing Women.

e) Said Abdallah Mwikaa – Representing Muslim Community.

f) Jacob Mutua – Chief Officer Ministry of Agriculture - County Government of Kitui.

g) June Kavyati –Chief Finance Officer County Government of Kitui

# 4.0 WATER SUPPLY SCHEMES

The Company operates several water schemes, viz; Masinga – Kitui, Matinyani, Mutune, Ithookwe, Mbooni and Ikanga-Mutomo Water Supplies. The sources define the respective scheme name.

## 4.1 Masinga – Kitui Water Supply & Sanitation Project

The main components of the scheme are:-

1. Raw water intake located at Masinga Dam fitted with two submersible pump sets with a discharge capacity of 100 l/s coupled to 30kW motors.
2. Raw water pipeline of 400mm dia. of 700m to treatment works.
3. Raw water balancing reinforced concrete tank of 400m3 capacity.
4. Full treatment works of capacity 8640m3/day.
5. Clear water reservoir of capacity 1348m3.
6. Chemical dosing facilities for aluminium sulphate, soda ash and tropical chloride of lime.
7. Elevated steel backwash tank of capacity 150m3 (which is leaking and to be rehabilitated under Masinga - Kitui Phase II).
8. 2no. treated water pump sets each of capacity 100l/s (1no. not serviceable).
9. Treated water steel main pipeline from Masinga to Katheka of 400mm dia.
10. Katheka reservoir of capacity 2000m3 and Kwa Ngindu of 1500m3
11. Twin distribution main pipelines from Katheka to Kitui 280mm/225mm dia.
12. Break pressure tank at Katheka of 100m3.

## 4.2 Others

1. Ithookwe borehole No.9 which replenishes Masinga supply to serve the western part of Kitui town and Majengo. It is electric driven.
2. Matinyani borehole which serves Matinyani area. It is electric driven.
3. Mutune borehole serves Mutune area. It is electric driven.
4. Mbooni borehole replenishes Masinga - Kitui Supply to serve people of Wii, Mwania and parts of Ithookwe. It is electric driven and currently unoperational.
5. 3no. Ilusya and 1 no. Ikanga boreholes which are engine driven and serve Nduundune, Nzalani, Tuvila, Ikanga, Mutomo, Kitoo, Kandae and recently Kanthi. There is urgent need to connect to the national grid considering the ever increasing cost of fuel.
6. Swahili Water Project

The project was funded by Water Services Trust Fund (WSTF) directly to the Company.

Scope of works: -

1. Pipe line extension – 6930m.
2. Construction of 7 no. water kiosk.
3. Purchase and supply of 250no. 15mm plastic water meters.
4. Construction of 1no. 300m3 reinforced concrete water tank.

## 4.3 Storages

Masinga - Kitui Water Supply has eighteen (18) water storage tanks with a total storage capacity of 8,515m³. One of them is steel elevated tank while the other seventeen (17) are surface reinforced concrete and masonry tanks. Three tanks are situated at the treatment works where one is for backwashing, one for raw water balancing and the other clear water. One tank at Katheka station, three at Kitui town and the remaining ten are along the distribution mains.

## 4.4 Distribution System

The distribution pipelines total length is 860km of assorted sizes and which mainly comprises of uPVC pipes. Galvanized steel piping is only laid where the terrain is rough for uPVC piping.

## 4.5 Ongoing Projects

1. Masinga – Kitui Water and Sanitation Project.

Masinga – Kitui Water Supply & Sanitation Project is funded by African Development Bank and is grouped in two lots as briefly reported below: -

1. Lot A

* Masinga submerged intake works
* Masinga raw water rising main: 300mm dia. Epoxy coated/cement lined of 1.5km length.
* Masinga treatment works of capacity 9,000m3
* Treated water rising mains
* Storage tanks – 2no. each 3,000m3 at Kwamuthumba hill and Katheka
* Masinga – Kitui water transmission mains (steel)
* Electromechanical works
* Water kiosks and supply of water meters for consumer connections

1. Lot B

* Masinga water transmission mains (steel pipes)
* Kitui town water distribution network (steel pipes)
* Kwa Ngindu reinforced concrete ground storage tank 1500m3.
* Water kiosks and supply of water meters for consumer connections
* Sewerage system: concrete pipes, steel pipes epoxy coated at valley crossings, treatment works comprising anaerobic, facultative and maturation ponds and miscellaneous site works.

**Overall Progress – 65%**

1. Mutitu – Thua Water Project

The project is funded by Kenya Italy Debt for Development Programme (KIDDP) through Tanathi Water Services Board.

Scope of works: -

1. Source works both at Thua Kinakoni & Mutitu town
2. Pipeline rehabilitation – 3.4km
3. Renovation of water kiosks – 5no.
4. Renovation of 50m3 masonry water tank – 3no.

**Overall Progress – 98%**

Handing over for Thua Kinakoni & Mutitu tentatively planned to be on 24th & 28th February 2014 respectively.

## 4.6 Proposals Submitted

The Company has prepared and submitted the below proposals to WSTF for funding: -

1. Kwa-Vonza Ecosan Toilet – KES 6.5million
2. Kalundu Ecosan Toilet – KES 5million
3. Kabati-Kwa Vonza Water Supply Project – 7.7million
4. Kalundu Water Project – 10million

## 4.7 Areas Not Receiving Adequate Water

The following areas are not adequately served or don’t receive water throughout the month. This normally happens during the dry spells when everybody turns to tap water and this is due to tapping from the rising main. The affected areas are:-

1. Kihara line has many tappings and water rarely reaches their off take. Expected to improve when Masinga - Kitui Phase II is complete.
2. Wii – the major supply is from Mbooni b/hole which broke down. Currently we use Kavisuni pipeline which doesn’t provide adequate supply and we have to close the main at Ngiluni junction.
3. Ithiani/Itoleka/Ngengeka – this is determined by the level at Katheka tank, the other problem is the size of the pipeline serving those areas which is not adequate since it has been over tapped forcing us to stop installation of new connections along the area until the same has been up graded.
4. Ikolania/Mbusyani – served by Mbooni borehole which is not operational.
5. Mulango/Kisekini – this branch line has been over tapped for it was an individual line (connection) but today serving as a distribution for the area and so to serve the large no. of people calls for more time also upgrade Mulango pipeline.
6. Mathulini/Kilonzo – depends on the levels at Kwa Ngindu tank which cannot be currently maintained and has also been over tapped. To improve when Masinga – Kitui Phase II is complete and upgrade the pipeline.
7. Manyenyoni – has been over tapped, the pipeline needs to be upgraded from 25mm to 65mm and some areas be relocated to avoid interruptions.
8. Mulango Primary – G.I pipes were vandalized at the river crossing. Can explore the supply from the other side of Kilukuya pipeline.
9. Musyao – the pipeline has been over tapped and problem can be addressed through upgrading Mulango pipeline (TAWSB is designing the line).
10. Maseki – the line needs to be re-routed to reduce the many bends (frictional losses).
11. Kwa Mulungu – the pipeline size is small and is being upgraded by AMREF currently.
12. Kwa Mwova – the problem is pressure head.
13. Katutu – the head cannot allow the flow from Katheka tank, may be explored from the main pipeline.
14. Kwa Vonza Market – depends on the levels at Katheka tank and maintaining them is a problem. Needs to be re-routed to avoid Kwa Vonza hill.
15. Kangale – pressure head problem.
16. Mulutu – Ndumoni pipe line needs upgrading and also Syongila – Mulutu.
17. Ngiluni junction to Ngiluni market needs upgrading.
18. SEKU

## 4.8 Proposed Community Projects Handover

The Company has received Expression of Interest from the Ithiani community to handover the running of Ithiani Water Project. The project is not operational and the request has been forwarded to the County Government of Kitui (Director Water & Irrigation) for operationalisation and hand over.6.5 Groundwater Section

Application for power supply to Ikanga – Mutomo Water Project was done last year. KPLC send their quotation totaling KES 3million. Since then Ministry of Health, just across the road, installed power and a new application has been filed with KPLC. Requirements and cost implications for changing the systems have also been finalised.

# 7.0 NOTABLE ACHIEVEMENTS

Over the last few years, the Company has made noticeable strides in her endeavour to improve service delivery. Some are as briefly mentioned below: -

1. Establishment of Regional Offices - The Company has several Regional Offices as outlined below: -

1. Masinga Water Treatment Works – serves Masinga Region
2. Kithyoko Trading Centre – serves Kthyoko Region
3. Katheka Trading Centre – serves Katheka Region
4. Matinyani Trading Centre – serves Matinyani Region
5. Ikanga Trading Centre – serves Ikanga Region
6. Mutomo Trading Centre – serves Mutomo Region
7. Mutitu Trading Centre – serves Thua and Mutitu Region