

CHALINZE WATER SUPPLY & SANITATION AUTHORITY



SECOND QUARTERLY PROGRESS REPORT (OCT – DEC 2014) 2014/2015

PREPARED BY

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1.0 INTRODUCTION

1.1 Chalinze Water Supply and Sanitation Authority (CHALIWASA)

The Chalinze Water Supply and Sanitation Authority (CHALIWASA) was officially declared in the government notice on 30th November 2012. Initially it was known as the National Water Project which was initiated by the Government of the United Republic of Tanzania in the 1980's. CHALIWASA is answerable to the Board of Directors appointed by Hon. Prof. Jumanne Maghembe (MP), the Minister responsible for Water with effect from 13th April 2013. The objective of the Authority is to supply water to communities in various villages of the Coast and Morogoro regions including the growing urban settlements of Msata, Lugoba, Chalinze, Mdaula, Ubena-Zomozi and surrounding villages. The main goal of CHALIWASA is to be independent authority which affords cost of operation and maintenance of machines also paying staff salaries until 2016 due to Strategic Plan (2011 – 2016). Since July 2012, Authority already paid the cost of water chemicals for **100%** and paying salary for **99** contract staff. The functions of CHALIWASA are defined by various legal documents related to provision of water supply and sanitation services and other policy, guidelines and regulations issued by the Ministry of Water (MoW) and Energy and Water Regulatory Authority (EWURA). CHALIWASA is guided by the following vision and mission statements:

Vision

To be the best and autonomous water supply and sanitation services provider to Chalinze and beyond.

Mission

To provide adequate, clean and safe water as well as efficient and proper disposal of waste water to Chalinze service area and abide to environmentally and hygienically acceptable high quality.

The Executive Board of Directors

The CHALIWASA Executive Board has **11** members namely:

- | | |
|------------------------------|--|
| 1. Eng. Vitalis P. Mnyanga | - Board Chairman |
| 2. Transferred | - Regional Authority's representative |
| 3. Transferred | - Bagamoyo District Council representative |
| 4. Mr. Mussa Msakamali | - Business enterprises' representative |
| 5. Mr. Mohamedi Kikwete | - Domestic users' representative |
| 6. Transferred | - Major consumers' representative |
| 7. Hon. Rehema Yusuph Zando | - Women group representative |
| 8. Eng. David Msekeni | - Representative for WAMACHA |
| 9. Eng. Blangsson Hamisi | - Representative from Ministry of Water |
| 10. Hon. Francis Mbode | - Councilors' representative |
| 11. Eng. Christer T. Mchomba | - Board Secretary - Manager |

1.2 Overview of Chalinze Water Supply Project (CWSP)

The Chalinze Water Supply Project (**CWSP**) Phase I was implemented in the year 2001 with a target of supplying water to **105,000** people by the year 2015. The construction of the project completed in the year 2003 whereby the scheme was commissioned to provide service to the community of **20** villages. Phase I of Chalinze water supply was financed by the Government of the People's Republic of China in collaboration with the Government of Tanzania.

The implementation of Chalinze water supply was planned to be in two phases. The first phase of the project was designed to cover **20** villages after its construction. The villages covered in phase I are: **Pingo, Bwilingu, Pera, Msoga, Mboga, Lunga, Saleni, Diozile, Mindutulieni, Mazizi, Msata, and Kihangaiko** in the south direction. In the north direction the following villages were covered, **Mandela, Hondogo, Kilemera, Kikaro, Miono, Rupungwi, Kimange and Mbwewe**. However, there are **28 villages** from Phase II that have been completed and are currently serving water to the community. The villages are **Mkange, Mihuga, Mandamzingara, Masimbani, Kweikonje, Kwasunga, Mindukeni, Masuguru, Pongwe-kiona, Pongwe-msungura, Madesa, Mdaula, Matuli, Msolwa, Visezi, Buyuni, Vigwaza, Chamakweza, Chahua, Gwata, Gumba, Kiwangwa, Msinune, Mwavi, Fukayose, Kisanga Msingi na Talawanda**.

The coverage for both phases are **64% (176,180)** of the total population (**276,669**) of the served area (census 2012) up to September 2014 i.e. some of the sub-villages in the villages in the phase **II** do not receive water services. Therefore more efforts need to be made to deliberately complete the construction of the remaining works

The cost for phase 1 was **Tshs 23.4 billion** and the following infrastructures were implemented: Intake structures, clarifier tanks, filter tanks, dosing room, clear water pump house, **2000 m³** clear water tank, **5** mid-way pumping stations, **3** clear water tanks of **300 m³** and **6** clear water tanks of **500 m³**, **340 km** of the transmission main pipes and **79.5 km** of the distribution pipe lines this include phase I and II, telecommunication facilities, administration building, staff quarters, electricity and the communication points. The design capacity of the intake is to produce **7,200 m³/day** which will also accommodate requirements for the ongoing phase II. The transmission pipes are also designed to accommodate demand for phase II.

Phase II started construction during 2008, with a total cost of Tshs **53.7 billion**. The funding is a contribution from the Government of the Peoples' Republic of China (**Tsh. 5.6billion**); The Bank of Arab Development in Africa (BADEA) (**Tsh. 10.8 billion**) and Water Sector Development Programme (WSDP) (**Tsh. 37.3 billion**). Phase II of Chalinze water supply covers **47** additional villages in **3** Districts namely Bagamoyo (**38**), Kibaha (**4**) and Morogoro rural (**5**). Due to its

complexity the project was divided into **9 packages** (A, B, C, D, E, F, G, H & J). Two packages i.e. Packages F and H were implemented using funds from BADEA while package J (villages in Morogoro rural including Military camps) were implemented by using grant from Chinese Government. The remaining packages (A, B, C, D, E and G) were implemented under the Water Sector Development Programme & GoT. The project is ongoing.

During implementation stage the community were involved and mobilized to form the association called Chalinze Water User Association (WAMACHA - Jumuiya ya Watumiaji Maji Chalinze), which is a legal entity, registered in accordance with the legal procedures. Initially the project was jointly managed by the Ministry of Water (MoW), WAMACHA and Bagamoyo District Council.

2. DEPARTMENTAL ACTIVITIES

2.1 Personnel and Administration

(i) Employment

Currently, the Chalinze WSSA has **99** staffs working in various areas of the scheme. **13** staffs are Government's permanent employees and **85** staffs are employed by the WSSA on **2** years contracts, whereas **1** staff is employed by Bagamoyo District Council. Out of **99** staffs **26** are female employees.

(ii) Transport:

The Chalinze WSSA has Eight (**8**) vehicles and Five (**5**) motorcycles, all in good working condition.

(iii) Communication:

The WSSA has internal telephone communications and internet connection, which enable the communication within and outside the area. The internet connection via fiber cable has reached at Wami Head office.

2.2 Technical Department.

(i) Planning and Construction;

During the 2nd quarter the WSSA continued with implementation of ongoing works of the phase II the progress is as follows:-

a) 2nd Quarter implementation for Chalinze Water Project Phase II (Oct– Dec 2014).

The implementation of package A, B, C, D, E, F, G, H and J for the 2nd Quarter period starting from Oct to Dec 2014 are as follows;

1. Package F & H

On 5th November 2013, The Ministry of Water sign the contract with a new contractor **M/s Badr East African Enterprises Ltd** to complete the **remaining works** for Wami Clarifier, two booster pumping stations, R.C Ground and elevated reservoirs supply and installation of transmission pipelines, complete with valves and all accessories, guard houses and water kiosks. Overall physical work progress is estimated to be **35%**. However people at **Mdaula, Matuli and Msolwa** are currently receiving water from the completed works in their villages.

2. Package J

This package was implemented by **M/S Wuhan Water Construction Engineering Company** from China. However the extension of pipeline reached at **95%** and rehabilitation of communication system is **50%**. A total population of **24,925** from villages of Kidugalo, Ngerengere, Sinyaulime, Bwawani, Gwata, Kinonko, Sangasanga, Kizuka military camp will benefit from this package of which depends on package F and H. The area covered by Package J does not yet receive water due to incompleteness of the pumping station at Ubenazomzi.

3. Package A (Lot 1)

This package was implemented by **M/S Oriental Engineering Co. Ltd** from Kenya. The contract was signed on 13/8/2010 and was **officially handed over on 25th March 2014** after Defect Liability Period (DFP) and the **project completion is 100%**. A total population of **10,912** from villages of **Mihuga, Masimbani, Kweikonje, Mandamazingara, Kwasunga and Mkange** are currently benefitting from this package and the project is operational.

4. Package B (Lot 2)

The implementation of Package B for the 2nd Quarter period **is 99%**, while the remaining works are installation of 50 Nos of Air valves and wash out, Crossing the railway at Makurunge, Fixing the taps in 30 Nos water kiosks, testing the pipeline and tanks, Fixing the electrical power fitting and sanitary works, Planting grass and access road for all sites. Villages of **Masuguru/Mwetemo, Kiwangwa/Mwavi, Fukayosi, Kidomole, Mkenge, Msinune, Pongwe Msungura, Madesa na Makurunge** are receiving water from this package. Currently all villages received water.

5. Package C (Lot 3)

This package is being implemented by **M/S D. B Shapriya & Co** from Tanzania. The contract was signed on 23/3/2011. A total population of **13,180** from villages of Kinzagu, Makombe, Talawanda, Malivundo, Msigi, Kisanga and Mindukeni will benefit from this package. The implementation of Package C for the 2nd Quarter period is **98%** and **major remaining** works are laying **2.4km** of transmission and **20.4km** for distribution pipeline, construction of **14** valve chambers, construction of **10 Nos** water kiosks, fitting for storage tanks, sanitary and electrical works for three sites, installation of **44 Nos** of air valve and wash out, river crossing, horizontal

drilling and access road for all sites. People at village of **Kinzagu, Makombe, Talawanda, Msigi, Kisanga na Mindukeni**) are currently receiving water from the completed works.

6. Package D (Lot 4)

This package is implemented by **M/S Building Water and Earthworks Ltd** from Tanzania. The contract was signed on 13/8/2010. A total population of **14,931** from villages of Chamakweza, Vigwaza, Buyuni and Visezi will benefit from the package. The implementation of Package D for the 2nd Quarter period is **95%** and **major remaining works** are construction of ground reservoir (where the construction is now reached **(70%)**), guard house, sanitary and electrical work, finish works for water kiosks, land scarping and access road at Vigwaza site. All villages of **Chamakweza, Mbala, Vigwaza, Buyuni** and **Visezi** are currently receiving water after installing a Pressure Reducing Valve and constructing a temporary Water Break Pressure Tank.

7. Package E (Lot 5)

This package is being implemented by **M/S Badr East Africa Enterprises** from Tanzania. The contract was signed on 13/8/2010. A total population of **12,090** from villages of Chahua, Gwata, Gumba, Magindu and Lukenge will benefit from the package. The implementation of Package E for the 2nd Quarter period 2014 is **97%** and **major remaining works** are laying **18 km** of transmission and **5.5 km** of distribution pipeline, **3 Nos** water kiosk plus windows, outlet and inlet covers slab for the storage tanks and landscaping, materials for landscaping and access road at Mkenge site and crossing. People at Village of **Chahua, Gwata, Gumba, Magindu na Lukenge** are receiving water currently.

8. Package G (Lot 6)

This package is being implemented by **M/S Zonghao Overseas Construction. Eng. Co. Ltd** from China. The contract was signed on 13/8/2010. A total population of **13,093** from villages Kwan'gandu, Pongwekiona, Kifuleta and Kwaruhombo will benefit from the package. The implementation of package G for the 1st Quarter period is **99%** and **waiting** for pre handing over inspection and final inspection later August 2014 but the **remaining works** is the connection from Mbwewe pump station to the transmission line but depends on completion of package F and H. People at Village of **Pongwe kiona and Pongwemnazi** are receiving water currently.

(ii) Operation and Maintenance

(a) Production.

Currently there are **23** pump units that are in good working condition **see appendix i**. The remaining **7** pumps are under maintenance stages. The design capacity of the Intake and the Water Treatment Plant is to produce **7,200 m³/ day**. However, the current average demand is **5,955 m³/day** and daily supply is **6,415.34 m³/day**. Under normal condition, the supply is **24**

hours per day. The quality of treated water is also good and meets the International Standards (WHO).

(b) Tanks

There are **49 water distribution and Storage tanks** ranging from **50 m³** to **2,000 m³** within the project area with a total storage of **11,800 m³**. All tanks are in good working conditions **see appendix ii**

(iii) Commercial Operations

Up to **31st December 2014** we have **2,651** connections where the number of private customers was **2,177** and **474** kiosks or Public water points in various areas of the scheme. All customers are metered (**100%**). The number of service hours is **24hrs** it is informed that customers are satisfied with the supply service provided.

The billing system is computerized and bills are prepared on monthly basis. However, they are still distributed to customers by door to door dispatch. The billing efficiency stands at **90%** and Water Revenue collection efficiency stands at **72%** whereas the quarterly collected revenue was **Tshs.313,905,125/=** against **Tshs 395,738,893/=** as 1st quarter action plan which is a increase of **21%**.

(iv) Finance

The actual expenditure for the 2nd quarter **Oct - December 2014** is **Tshs. 622,773,961/=**, where **Tsh.282,168,401/=** for PE and OC, while development activities expenditure were **Tsh 70,469,150/= (incremental expenditure)**. However, the quarterly expenditure was budgeted to spend **Tshs 983,803,060/=**. The TANESCO bill for **Oct - December 2014** reached **Tshs 276,420,846.56/=** this makes a total outstanding cumulative bill to date to reach **Tshs 3,072,912,577.25** up to December 2014.

3. CHALLENGES/CONSTRAINTS

The challenges we faced during the 2nd quarter were as follows:

- (i) Some of customers were not paying their bills on time and particularly government Institutions e.g. Secondary schools and Health centers.
- (ii) The pipe network is not evenly distributed therefore the current supply capacity is underutilized
- (iii) Frequent power breakdowns
- (iv) Majority of customers, who are located at a distance exceeding 400m from the main distribution pipeline, cannot afford the cost of connection.
- (v) High Non Revenue Water (NRW) - 56% (both Commercial & Technical)
- (vi) Non compatibility of Bulk water meters (from China) to the existing system
- (vii) Lack of leakage detectors to assist detecting leakages at early stages.

4. PLAN/SUPERVISION FOR THE 3rd QUARTER (FY 2014/2015)

- a) To complete the construction of Chalinze Water project phase II project, this will increase coverage i.e. number of people served with water supply as well as revenue;
- b) New connections to be installed to customers: **200** domestic; **10** Institutions; **30** commercial and **5** industries.
- c) Distribution pipeline (2" pipe) of **1.5 km** to be laid in Chalinze central business area to enable more new connections;
- d) **2** motorcycles to be purchased to increase meter reading and collection efficiency and maintenance activities;
- e) The collection efficiency to be improved by (i) campaigning and creating awareness to the customers through advertisements and (ii) making frequent surprise visitation/inspection to ensure safety of customer meters and/or accuracy of meter readings;
- f) Customer survey to be conducted to know our customer base and Customer data to be updated in order to ease follow up of debtors and be incorporated into the SBM;
- g) To verify customers record and debtors to be entered correctly on Smart Billing Manager (SBM) and troubleshooting for all problems in all modules in order the system to be stable;
- i) The contract between M-pesa and CHALIWASA to be completed and signed to improve distribution of bills, collection of revenue through "Mobile phone money networks" and enabling easy advertisement to customers;
- j) Leakages to be attended immediately (45 minutes) after they are reported;
- k) The speed for communication network rehabilitation to be improved to enable flow of information from one point to the responsible staff;
- l) The commercial losses to be reduced by (i) conducting in-house training of the meter readers (ii) conducting monthly check ups and (iii) monthly verification of the data collected;
- m) Monitoring programme of customer water meters to be prepared in order to increase efficiency in the billing and reduce customer complaints;
- n) Preparation of Proposal for Bulky Water supply to village COWSOs.
- o) Preparation of alternative sources of power e.g. hydropower proposal.

5. PERFORMANCE INDICATORS

A. TECHNICAL INDICATORS

(i) Supply and Demand.

(a) Estimated water demand **5,955 m³/day**

(b) Quantity of water produced **6,415.34 m³/day**

(c) Total No. of pumps available **30**;

- For Production; number of operational pumps is **3** out of **4**.
- For Distribution; number of operational pumps is **20** out of **26**.

(d) Total length of transmission main pipe is **340 Km**.

(e) Total length of Distribution pipeline is **79.5 km**

(ii) Production from various sources (in m³ / quarter)

Table 3 (A): Wami River Capacity.

| Production Capacity | WAMI RIVER WATER SOURCE. | |
|---------------------|--|---|
| | Wami River Source (m ³ /quarter) | Total Capacity (m ³ /quarter) |
| | 2nd Quarter 2014/15 | 2nd Quarter 2014/15 |
| Design Capacity | 648,000 | 648,000 |
| Present Capacity | 604,148.77 | 604,148.77 |

Table 3 (B): Production 2nd Quarter (Oct - Dec) 2014/15

| | |
|--|-------------------|
| October | 225,385.01 |
| November | 180,826.31 |
| December | 177,584.89 |
| Total Production 2nd Quarter | 583,796.21 |

(iii) Billed Water:

(a) Quantity of billable water **583,038.53 m³/quarter**.

(Billable water = water produced minus leakages)

(b) Actual quantity of water billed **290,601 m³/quarter**.

(c) Non revenue water (Production – Actual billed)/Production) = **0.50m³ (50%) which is Technical and Commercial losses.**

The quantity of water billed was obtained from meters readings. All customers are metered

(iv) Quality of water produced:

Table 4: Water quality parameters

| | pH Clear Water | Turbidity (NTU) Raw | Turbidity (NTU) Clear | TDS (mg/l)) Raw | Chlorine (mg/l) | Fluoride s (mg/l) | Fe (mg/l)) | Mn (mg/l)) | Nitrate s (mg/l) |
|------------|----------------------|---------------------------|-----------------------------|---------------------------|--------------------|----------------------|-------------------|-------------------|------------------------|
| Oct | 7.77 | 33.04 | 5.70 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Nov | 7.76 | 281.5 | 4.43 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Dec | 6.92 | 981.33 | 5.40 | 0 | 0.2 | 0 | 0 | 0 | 0 |

(v) Water Chemicals consumption

Table 5 : Quantity and Cost of consumed chemicals

| S/N o | Type of chemical | Quantity (kg) | Cost of chemicals (TSh.) per kg | Total cost (Tshs) |
|--------------------|------------------------|------------------|------------------------------------|-------------------------|
| 1 | Aluminum Sulfate | 17,413 | 1,062 | 18,492,606 |
| 2 | Sodium Chloride (salt) | 3,128 | 200 | 625,600 |
| 3 | Algae Flock | 170 | 6,372 | 1,083,240 |
| 4 | Soda Ash | 0 | 1,062 | 0 |
| GRAND TOTAL | | | | 20,201,446 |

(vi) Power Source:

Currently TANESCO is the only source of power for production purposes. The **WSSA** has also a standby generator which is used during power breakouts but not powerful to operate the pumps due to low voltage.

Energy Consumption:

- (a) KWh consumed for the quarter **566,155.**
- (b) Highest KVA recorded for the quarter **384**
- (c) Other energy consumed for the quarter: **N/A.**

B. SERVICE INDICATORS

- a) Average hours of service per day is **24 hours.**
- b) Proportions consumers with **24 hrs** services **85%.**
- c) Total No. of water Kiosks by 31 Dec 2014 is **474**

- No. of working water kiosks: **440**.
- No. of not working water kiosks: **34**.
- No. of kiosks run by Agents **474** working is **440**.

d) Cost of 20 Lts Jerry cane by vendors is **Tshs 100 - 200** and by WSSA is **Tshs 50/=**

e) No. of new connections by 31 Dec, 2014 is **128**.

f) No. of disconnection **NIL**, No. of reconnection **18**, No. of illegal connection found **NIL**.

g) Total No. of connections (customers) to date (31 December 2014) is **2,651**

h) No. of poor households identified to date **N/A**.

i) No. of poor households getting free water **N/A**.

(vii) Distribution of Connections:

Table 6: No of customers (categories)

| Category→ | Domestic | Institutional | Commercial | Industrial | Kiosk | Total |
|--------------|----------|---------------|------------|------------|-------|--------------|
| Total | 1,985 | 81 | 99 | 12 | 474 | 2,651 |

(viii) Total Number of Metered Connections:

Table 7: Categories and metered connections

| Category→ | Domestic | Institutional | Commercial | Industrial | Kiosk | Total |
|--------------------|----------|---------------|------------|------------|-------|--------------|
| Total | 1,985 | 81 | 99 | 12 | 474 | 2,651 |
| Working | 1,925 | 76 | 83 | 11 | 440 | 2,535 |
| Not working | 60 | 5 | 16 | 1 | 34 | 116 |

(ix) Number and Percentage of Population Served:

Table 8: Populations served

| Category→ | Institutional | House hold | Kiosk/Yard Tap | Total |
|--------------------|---------------|------------|----------------|-------|
| Total pop. | | | | |
| Pop. Served | | | | |
| Percentage | | | | |

Total populations in the service area (census 2012) are 276,669.

(x) Records of Leakage and Pipe Materials (July - Sept 2014)

Table 9: Number of Leakages and pipe materials used

| Category→ | GS Pipes | Polyethylene | PVC | Steel | Cast Iron | Ductile Iron | Others (mention) | Total water Losses(m3) |
|------------------------|----------|--------------|-----|-------|-----------|--------------|------------------|------------------------|
| Number of Leaks | 2 | 55 | 10 | NIL | 1 | NIL | 2 | 757.68 |
| Pipe breaks/km/Quarter | NIL | 0.26 | NIL | NIL | NIL | NIL | NIL | |

(xi) Complaints

- a) No. of consumer complaints received on lack of water/low pressure **NIL**
- b) No. of complaints received on water quality **NIL**
- c) No. of days used to attend a major breakdown in the quarter (if any) - **6**
- d) No. of days used to attend a major leak in the quarter (if any) - **1**

C. FINANCIAL INDICATORS

a) Total O & M costs: **Tshs.515,178,803/=**

(Total O&M costs = total Quarterly O & M expenditure plus Government Subsidies on electricity and salaries)

c) Operation and maintenance expenditure: **Tshs 201,998,956/=**

d) Operating revenue: **Tshs 313,905,125/=** (Total collection from water)

e) Personnel expenditure: **282,168,401/=**

f) Unit cost of water produced (Tshs/m³) without depreciation: **Tshs 882.5**
(Total O&M Costs without depreciation/Total production)

g) Unit cost of water produced (Tshs/m³) with depreciation: **Tshs 1059**
(Total O&M Costs with depreciation/Total production)

h) Total arrears: **Tshs 236,947,954/=**

i) Average quarterly billing: **Tshs 144,674,290/= /Month**

j) Contribution to investment: **NIL**

k) Actual expenditure: **Tshs 622,773,961/=**

l) Actual budget: **Tshs 983,803,060/=**

m) Total investment:

- Government funded projects **NIL**.
- Donor funded projects **NIL**.
- WSSA funded project **NIL**.

n) Water Revenue Collection Efficiency: **77%**

(Water Revenue Collection Efficiency = Quarterly Water Revenue collected/Quarterly Value of water billed)

NB: Personnel expenditure includes allowances for transport, responsibility, bonus, lunch, overtime, leave, housing, medical, daily paid wages, temporary employees and all salaries. It does not include traveling on duty and Board meetings.

(xii) Quarterly Water Billing

Table 10: Number of Bills

| Category→ | Domestic | Institution | Commercial | Industrial | Others/Kiosk | Total |
|--------------------------------|-------------|-------------|------------|------------|--------------|--------------------|
| Amount of water billed (m3) | 123,412 | 52,628 | 33,555 | 3,791 | 77,215 | 290,601 |
| No. of bills Prepared | 5,877 | 240 | 280 | 36 | - | 6,433 |
| Value of bills prepared (Tshs) | 148,094,400 | 64,206,160 | 51,674,700 | 5,895,005 | 164,081,875 | 433,952,140 |
| No. of bills Dispatched | 5,877 | 240 | 280 | 36 | 0 | 6,433 |
| No. of bills Paid | | | | | | |

(xiii) Quarterly Revenue Collection: Tshs. 313,905,125/=

Table 11: Revenue collected

| Category → | Domestic | Institution al | Commercial | Industrial | Kiosks/ Others | Total |
|------------------|-------------|----------------|------------|------------|----------------|--------------------|
| Water sales | 101,674,955 | 3,700,705 | 33,251,787 | 3,629,030 | 173,723,678 | 315,980,155 |
| Connections | | | | | | 39,365,782 |
| Recon. Fees | 236,000 | 84,000 | 42,000 | | | 362,000 |
| Meter rent | | | | | | |
| Application form | | | | | | 1,230,000 |

| | | | | | | |
|--|-------------|------------|------------|------------|-------------|--------------------|
| Arrears collection | 18153,630 | 19,566,725 | 18,570,522 | 5,620,625 | | 61,911,502 |
| Other income | | | | | | 224,847,786 |
| Total | | | | | | |
| Expected Revenue | 148,094,400 | 5,884,985 | 51,674,700 | 64,206,160 | 164,162,627 | 434,022,870 |
| Actual Revenue (water sales Oct – Dec) | 101,674,955 | 3,629,030 | 33,251,787 | 3,700,705 | 173,723,678 | 315,980,155 |

(xiv) Total arrears at the end of previous reported quarter

Table 12: 1st Quarter Arrears

| Category | Domestic | Institution | Commercial | Industrial | Others | Total |
|----------------|------------|-------------|------------|------------|---------|-------------|
| Arrears (Tshs) | 49,524,484 | 68,510,207 | 52,686,574 | 6,395,471 | 641,795 | 177,758,531 |

(xv) Total arrears at this reported 2nd Quarter.

Table 13: 2nd Quarter Arrears.

| Category | Domestic | Institution | Commercial | Industrial | Others | Total |
|----------------|------------|-------------|------------|------------|-----------|--------------------|
| Arrears (Tshs) | 75,986,049 | 102,332,197 | 47,283,519 | 3,379,426 | 7,966,763 | 236,947,954 |

(xvi) Ageing of total Arrears Quarterly **Tshs.236,947,954/=**

(xvii) Value of water billed (Tshs/quarter) **Tshs 433,952,140/=**

(xviii) Energy bills for the quarter **Tshs.281,753,400/=**

(a) Amount paid for Energy **Tshs.2,250,000/=** By the WSSA. (Quarterly outstanding for MoW: **Tshs.276,420,846/=**) By the WSSA **Tshs.7,225,583.45/=**

(b) Total outstanding Energy bills to date **Tshs.3080138161/=** (up to December 2014) to the MoW **Tshs.3,072,912,577.25** to the WSSA **Tshs.7,225,583.45**

(xix) Total WSSA's unpaid debts (to suppliers) to date **Tshs. 171,847,536/=**

D. Personnel Indicators.

- (i) No of employees - **99**
- (ii) No of female employees - **26**
- (iii) No of staff left for any reason – **NIL**
- (iv) No. of vacant posts - **74**

F. General Indicators.

- (i) No. of Board meetings held: **2 (Emergency Meeting & General Board Meeting)**
- (ii) No. of all Board Committees meetings held: **2**
- (iii) Any review of tariffs done (Yes/No) **No** If yes give details of Tariff structure and Strategic Plan and Cost Recovery Plan in place (Yes/No) – **No.**
- (iv) OPRAS/Performance contract in place and used (Yes/No) - **Yes**
- (v) Financial, Purchase, Safety and Staff Regulation in Place and used (Yes/No) - **Yes**
- (vi) Scheme of services in place and used (Yes/No) - **Yes**
- (vii) Training policy in place and used (Yes/No) - **No**
- (viii) No. of stakeholder meetings held - **NIL**
- (ix) No. of Vehicles: **8**; Working: **8**; No. of Motor cycles: **5**; Working **5**

Appendix i: Status of working Pumping Stations.

| Station | Total No. of Pump Set | Pump set Number | Description | Remarks |
|---------|-----------------------|-------------------------|---------------------|-------------|
| INTAKE | 4 | No. 1-3 | In good condition | working |
| | | No. 4 | Pump housing repair | Not working |
| DOSSING | 10 | Chlorine Pumps No. 1 | In good condition | Working |
| | | No. 2 & 3 | In good condition | Working |
| | | Alum Pumps No. 1 - 3 | In good condition | Working |

| | | | | |
|-----------------------|---|-----------------------------|--|-------------|
| | | Motor for chlorine and Alum | All are in good condition | |
| | | Electrolysis Machine No. 1 | | Not working |
| | | Electrolysis Machine No. 2 | In good condition | |
| TRANSPORT | 8 | No. 1,2,3 | In good condition | working |
| | | No. 6,7,8,4 | In good condition | working |
| | | No. 5 | Pump housing repair and Motor rewinding | Not working |
| SOUTH I (Madesa) | 4 | No. 2 | In good condition | working |
| | | No. 1 | Pump housing repair | Not working |
| | | No. 3 & 4 | In good condition | working |
| SOUTH II (Kihangaiko) | 6 | No. 1,4,5 | In good condition | working |
| | | No. 2 | In good condition | working |
| | | No. 6&3 | Non-return valves and Motor rewinding | Not working |
| NORTH I (Mandera) | 4 | No. 1&3 | In good condition | working |
| | | No. 1 | Repair on pump casing & Impeller | Not working |
| | | No. 4 | Repair on pump casing, Non-return valve Mechanical seal, Motor rewinding & Autotransformer | Not working |
| NORTH II (Makole) | 2 | No. 1 | In good condition | working |
| | | No. 2 | In good condition | working |

| | | | | |
|------------------------|---|-------|-------------------|---------|
| NORTH III (Hondogo) | 2 | No. 1 | In good condition | working |
| | | No. 2 | In good condition | working |

Appendix ii: Existing Distribution and Storage tanks

| Location of the tank | No. | Capacity (m ³) | TOTAL (m ³) |
|----------------------|-----|----------------------------|-------------------------|
| Phase I Tank | | | |
| Wami Tank | 1 | 2,000 | 2,000 |
| North 1 | 1 | 300 | 300 |
| North 2 | 1 | 300 | 300 |
| Miono | 1 | 500 | 500 |
| Mbwewe | 1 | 500 | 500 |
| South1 | 1 | 300 | 300 |
| South2 | 2 | 500 | 1,000 |
| Mboga | 2 | 500 | 1,000 |
| TOTAL PHASE I | 10 | | 5,900 |
| Tank Phase II | | | |
| Masugulu | 1 | 50 | 50 |
| Kiwangwa | 1 | 400 | 400 |
| Fukayosi | 1 | 100 | 100 |
| Mkenge | 1 | 50 | 50 |
| Pongwe msungura | 1 | 50 | 50 |
| Mkange | 1 | 150 | 150 |
| Madesa | 1 | 50 | 50 |
| Pongwekiona | 1 | 100 | 100 |
| Kifuleta | 1 | 150 | 150 |
| Kwaluhombo | 1 | 150 | 150 |
| Kwang'andu | 1 | 100 | 100 |
| Chahuwa | 1 | 100 | 100 |
| Gumba | 1 | 250 | 250 |
| Magindu | 1 | 150 | 150 |
| Lukenge | 1 | 100 | 100 |

| | | | |
|--------------------|-----------|-----|---------------|
| Vigwaza | 1 | 400 | 400 |
| Makombe | 1 | 50 | 50 |
| Kinzagu | 1 | 50 | 50 |
| Mindukeni | 1 | 300 | 300 |
| Msigi | 1 | 50 | 50 |
| Kisanga | 1 | 50 | 50 |
| Mbwewe | 1 | 200 | 200 |
| Mihuga | 1 | 100 | 100 |
| Ubenazomozi i | 1 | 450 | 450 |
| Msolwa | 1 | 150 | 150 |
| Masimbani | 1 | 100 | 100 |
| Mdaula | 1 | 300 | 300 |
| Mandamazingara | 1 | 100 | 100 |
| Kweikonje | 1 | 50 | 50 |
| Matuli | 1 | 100 | 100 |
| Ubenazomozi ii | 1 | 150 | 150 |
| Mwidu | 1 | 100 | 100 |
| Kaloleni | 1 | 150 | 150 |
| Tukamisasa | 1 | 150 | 150 |
| Kizuka A | 1 | 200 | 200 |
| Kizuka B | 1 | 500 | 500 |
| Ngerengere | 1 | 100 | 100 |
| Sangasanga | 1 | 100 | 100 |
| Kidugalo | 1 | 50 | 50 |
| Total Phase II | 39 | | |
| Grand Total | 49 | | 11,800 |