

UNIVERSITY OF NAIROBI

Reduction of Commercial Losses in the Distribution Network Using Automatic Metering Infrastructure (AMI): Case of Kenya Power

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Declaration

A. Students declaration

This project is my original work and has not been submitted for any other college or university for academic credit.

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Abstract

There are two main types of losses in an electricity distribution network, technical losses and commercial losses. The technical losses can easily be determined based on the parameters of the network and the demand. However, commercial losses – largely made up of power theft – are hard to locate and quantify. The aim of this study was to investigate the use of Automatic Metering Infrastructure (AMI) to locate, quantify and reduce commercial losses in the distribution network of Kenya Power and Lighting Company (KPLC). The study has determined the billing and collection efficiencies, Aggregated Technical and Commercial (AT&C) losses and subsequently the distribution system efficiency.

Data for the study was obtained by extraction of consumption records for 878 consumers from Kenya Power's Integrated Customer System (ICS) in Kapsoya Estate, Uasin Gishu County, North Rift Region of Kenya Power, for a period of 6 months (3 months before introduction of Automatic Metering Infrastructure and 3 months after introduction of the same). Extra data was extracted from the 22 meters used to ring fence the secondary distribution transformers.

Results obtained show that there is substantial improvement in distribution system efficiency, from 75.16% before integration of Automatic Metering Infrastructure to 90.22% after introduction of automatic metering infrastructure. Based on this finding, Kenya Power can utilize its Automatic Meter Reading (AMR) system to ring fence both the distribution feeder lines and transformers to reduce commercial losses.

Acknowledgment

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More importantly my supervisors: Prof. Mwangi Mbuthia and Dr. Cyrus Wekesa who have been of great help in guiding the direction of this project.

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Abbreviations and notations

AMI Automatic Metering Infrastructure

AMR Automatic Meter Reading

AT&C Aggregated Technical and Commercial

DA Distribution Automation

EEB Empresa de Energía de Bogotá

EHV Extra High Voltage

EIA Energy Information Administration

ESRP Energy Sector Recovery Program

FDB Facility Data Base

FDR Feeder

GDC Geothermal Development Corporation

GIS Geographical Information System

HV High Voltage

I Current

ICS Integrated Customer System

IEA International Energy Agency

IEEE Institute of Electrical and Electronics Engineers

IPP Independent Power Producers

KENGEN Kenya Electricity Generating Company

KPLC Kenya Power and Lighting Company

KSh. Kenya Shillings

kVA Kilo Volts Ampere

kVAr Kilo Volts Ampere Reactance

kV Kilo Volts

kW Kilo Watt

kWh Kilo Watt Hour

LV Low Voltage

MOE Ministry of Energy

MV Medium Voltages

NOC Network Operations Center

PSAF Power System Analysis Framework

R Resistance

RAPDRP Restructured Accelerated Power Development and Reforms

Program

SEB State Energy Board

T&D Transmission and Distribution

UIU User Interface Unit

UPPCL Uttar Pradesh Power Corporation Limited

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CHAPTER 1

1.0. Introduction

1.1. Background

At every stage of electrical energy generation and delivery, metering plays a critical role in providing information on energy transportation and consumption by the end users. It is this information that is very critical to both the consumer and the utility company on how it will be planned, transported, managed and utilized in the most efficient manner.

With the advancement of metering technology available today in the market, it is possible to get more out of them than just measuring the consumed units. Current Automatic Meter Reading and in particular the ones deployed by Kenya Power and Lighting Company (KPLC) has the ability for prepayment facility.

KPLC, the state owned corporation that distributes and retails electric power in Kenya has continually been changing and adopting better utility management practices. One of these transformations is the introduction of the AMR system which has the ability for prepayment services.

Management of domestic electricity consumption has over the years been based on the manual meter readings. This has been giving rise to irregular reading intervals and therefore estimated monthly bills. Moreover, the electricity consumption of all appliances is summed up into one bill which does not allow for differentiation of electricity use within any specific or regular interval. The inaccuracy of the electricity metering system may be limiting the potential opportunity to achieve objectives based around energy efficiency and energy awareness due to this lack of coherent dissemination of energy utilization (Wood and Newborough, 2003) (Gilchrist, 2007).

Although majority of the meters that KPLC has deployed are not smart, they nevertheless, provide the utility company and its customers with the opportunity to use the feature of prepayment to better manage how the electricity is consumed. This will form the core objective of this project, in that it will try to find out if the customers who

have been retrofitted with prepaid meters utilize their electrical energy more efficiently than when they were metered with post-paid meters.

The background study acts as a foundation for the next part of the project. One of the findings is that, many utility companies all over the world use some other mechanisms and systems to reduce the commercial losses in their distribution networks. Currently KPLC uses a system called Global Sweeps to identify where energy pilferage might be occurring. This system is erratic, inefficient and is not scientific at all. It relies on luck. Customers are always ahead in devising new ways of stealing electricity.

The problem with the systems and mechanisms used in other countries is that they are expensive to deploy and maintain. KPLC doesn't have that luxury.

Recently, the utility company has installed Automatic Meter Reading (AMR) to replace the old static meters purely to control its debt, by prompting the customers to pay prior to consumption. These AMRs have other functionalities other than management of the utility company's debt, in that they can be used for consumption management (Jarventausta, 2007), outage and quality management as well as network analysis (Kärenlampi, 2011).

This study has the intention of analyzing how AMR system, other than its main function, can be used by both the utility company and the customers to deliver and consume power more efficiently and thereby saving some energy which is of benefit to the utility company and the customers. The functionality of outage and quality management are beyond the scope of this study. This research will be limited to consumption management in general and commercial losses management in particular.

1.2. An overview of the project.

Within this chapter, an overview is given of what is being studied within the master project. Besides this information, the expected results of the study are described, alongside with the description of what should be done with these results. This topic consists of two subtopics; the first one describes what is being studied, and why. The second one describes the method used, expected conclusions and how they can be interpreted.

1.3. Problem statement.

KPLC faces a serious challenge in delivery of reliable and quality supply to its customers. One of the major challenges is the lack of sufficient power to distribute. The total demand of the country nearly outstrips the installed capacity. Currently the total demand is approximately 1570MW against the installed capacity of 2295MW [KPLC, 2015].

It must be realized against this backdrop that the commercial energy losses is included in the total demand. Therefore if the losses were to be minimized or eliminated altogether, more capacity will be availed for uptake by more customers without the need for putting up more generation for them.

This study investigates the use of Automatic Metering Infrastructure (AMI) to locate, quantify and reduce commercial losses in a distribution network.

1.4. What is precisely being researched on and why?

The description is given on what is being studied in the project. It will be in three parts; part one describes the objective of the project, followed by the benefit of the research and lastly the prior research that has been done on this field and how this research will differ.

1.5. Objective of the project

The overall objective of this study is to investigate the use of automatic metering infrastructure to locate, quantify and reduce commercial losses in a distribution network. Specific objectives of the study involved:

- i). Obtain consumption data for a selected group of customers before and after introduction of AMR
- ii). Determine billing and collection efficiencies
- iii). Compute aggregated technical and commercial losses
- iv). Establish distribution system efficiency
- v). Simulate a load flow for the Kapsoya 11kV feeder.

1.6. Benefits of the research

The results and conclusion that will be obtained and made from this research, will give KPLC a clear road map in the development of a system with the highest usability and scalability that can be deployed to effectively manage and reduce the commercial losses in its distribution network.

More importantly, using the existing Automatic Metering Infrastructure to do more than just billing will be of benefit to the utility company. As mentioned earlier this could lead to a boost in the quality of supply to the customers and improved distribution efficiency for the company.

Another benefit is related to the models documentation. Because of this research, the power utility company should be able to remain in further research and development of the reduction of commercial losses of its distribution network. If these systems are nonexistent, then the utility company will not be able to avail power most of the time, or if it does, it will be at a higher cost hence low customer satisfaction and reduced profitability.

1.7. What are the conclusions?

The conclusions of this research should lead to the most suitable ways and processes for reducing commercial losses in the distribution network at KPLC. More importantly the results that will be obtained will form the basis and foundation for argument in convincing the utility company to realize the need to invest more in distribution automation, so as to increase the system efficiency.

CHAPTER 2

2.0. Commercial Losses and the Concept of Ring fencing in an electrical network

2.1. Electricity in Kenya: A sector in peril.

According to (Davidson, 2005), the worldwide gross installed power generation increased from 3000GW to 3750GW in the year 2000. This generation capacity stood at 5549GW in the year 2014 (EIA, 2014) as illustrated by Figure 2.1.

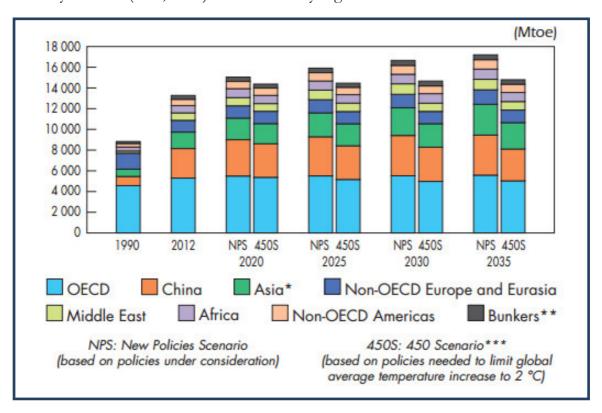


Figure 2.1: Global Electricity consumption- Source IEA, 2013

Most of the future increase will be in developing world. At a coverage of 15% of the earth's land area, Africa has 13% of the world's population but consumes just 3% of this installed capacity. Africa as a whole accounts for 2% of the global industrial capacity. Africa has an installed generation capacity of approximately 103GW.

The Kenyan economy relies heavily on its energy intensive manufacturing industry. Therefore, electricity plays a very critical role in Kenya's economy. However, its installed capacity of 2.3GW is not enough to meet the ever increasing demand for electricity, more

so with the discovery of crude oil in the northern part of the country. It is expected that there will be significant increase in electricity demand by 2020, when oil production will be expected to have started.

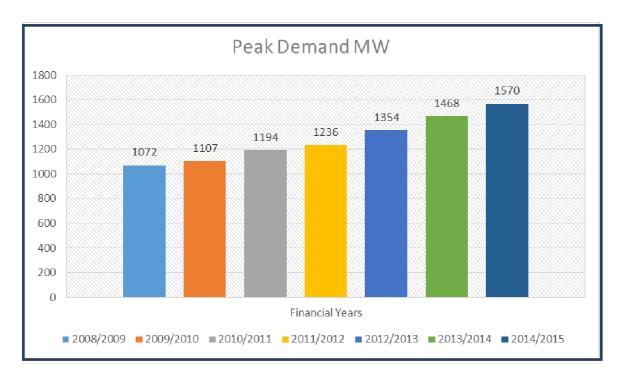


Figure 2.2. Kenya's Electricity Peak Demand: Source, KPLC, 2015

Currently, the peak demand is approximately 1570MW as is illustrated by Figure 2.2. This significant demand requires a significant expansion in generation, transmission and distribution infrastructure.

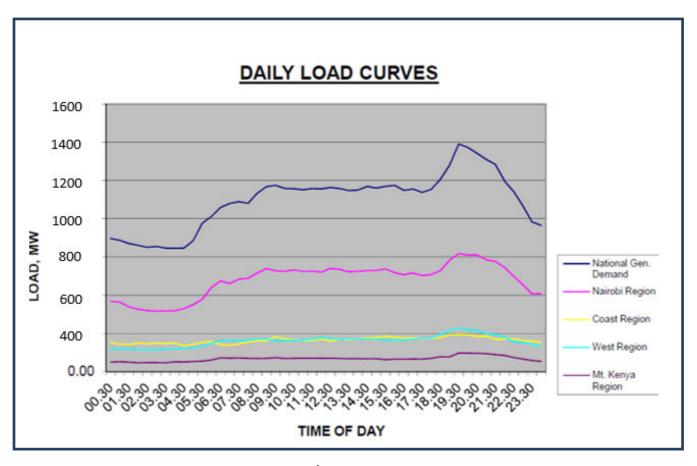


Figure 2.3: Daily Load Curves- 20th April 2013: Source, NCC, KPLC.

The demand for residential consumers of electricity varies by time of the day. Since the household occupancy varies substantially throughout the day can explain why the consumer behavior consequently changes in tandem. End users of electricity vary throughout the day. It therefore implies that different demand curves are appropriate as value of electricity use varies over different time periods. This is illustrated by Figure 2.3.

Sometimes, demand for electricity becomes exceptionally high or, for other reasons, there is not enough electricity generation to maintain the needed operating reserves.

Therefore, this presents a challenge that at the peak of the curve, reserve capacity is so diminished that the utility company is forced many a times to shed off some of the load.

If an S- curve phenomenon is assumed in the electricity demand growth in Kenya, by 2020 it could be anything between 6 to 8GW. Currently, there are slightly over 3 million customers as demonstrated by Figure 2.4 and the utility company is connecting new consumers to the national grid at the rate of 300,000 per year. This not only diminishes

the installed capacity but increases the frequency of electricity losses along the delivery highway.

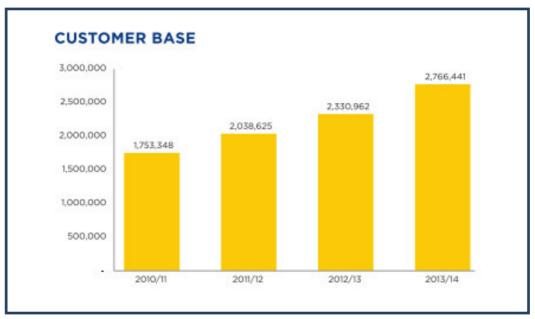


Figure 2.4: Electricity Consumers growth in Kenya: Source, KPLC, 2014

In the recent past years Kenya has been experiencing a shortfall of affordable electricity due to several reasons; majorly drought, high cost petroleum fuel and the escalating cost of credit. Kenya's installed capacity is 1.8851GW as demonstrated by Table 2.1. KENGEN, GDC and other generators are currently putting up new power generation stations which are expected to inject extra 5GW to the National Grid by year 2017.

Table 2.1: Table of electricity generation mix in Kenya

Electricity Generation mix in Kenya (kW)							
	Hydro	Geothermal	Thermal	Co-gen	Wind	Total	Proportion
KenGen	770	150	236	-	5.1	1,161.1	65.1%
IPPs	-	91	386	26	-	503	28.2%
Emergency	-	-	120	-	-	120	6.7%
Total	770	241	741	26	5.1	1885.1	100%
Contribution	43.18%	13.51%	41.55%	1.45%	0.29%	100%	

Source: Ministry of Energy and Petroleum 2013

In as much as putting up new generating plants, the elephant in the room will always remain; system efficiency of 82.7% in both the transmission and distribution networks. As per the Annual reports of KPLC (2012) AT &C losses amounts to 17.3%.

Over a period of time, the warning signs for trouble have prominently manifested themselves. KPLC has not sufficiently invested in upgrading and uprating its distribution infrastructure. Not only has the maintenance of most of the equipment been lacking or programs are behind schedule, but there has been an upward trend of consumption of unmetered electricity.

The demand for electricity has tremendously increased in the recent past, and it seems it will probably continue to do so due to increased and improved economic environment, strategic and deliberate blue prints like Vision 2030 being undertaken and implemented by the Kenyan Government and the neighboring countries. However, the investments which increase the electricity demand have not matched the rate of expansion of the distribution network. As a result, the problem of power rationing is quite prevalent.

To mitigate the problem, KPLC has contracted Independent Power Producers (IPPs) to procure emergency power which is generated using petroleum fuels. This power is becoming increasingly expensive because of the volatile cost of the fuel. This has

translated to an all-time high mean price of electricity of 0.27\$/kWh; which is quite expensive for the Kenyan living standards.

2.2. Generation and Delivery of Electricity

Figure 2.5 shows a topology of generation and delivery of electricity to consumption points. In Kenya, generation and delivery of electricity have been unbundled and each function is undertaken by independent utility companies. KENGEN and IPPs do the generation part. KETRACO and KPLC transmit the electricity to various load points. Finally, KPLC does the distribution part of it.

Electricity is generated through various modes namely hydro, geothermal, wind, solar and fuel. It is generated at between 11 and 15kV. Since the electricity is consumed most of the time at different points and far off from where it is generated, it is stepped up to both 132kV and 220kV for onward transmission.

The High Voltage (HV) transmission lines deliver electricity from various generation sources to the primary substations, where electricity voltage is stepped down to 66kV, 33kV, 11kV, 415V and 240V and taken onwards through the distribution network to individual consumption points. As the power is transported from points of generation to consumption, part of it will be lost on the way and is termed as system losses.

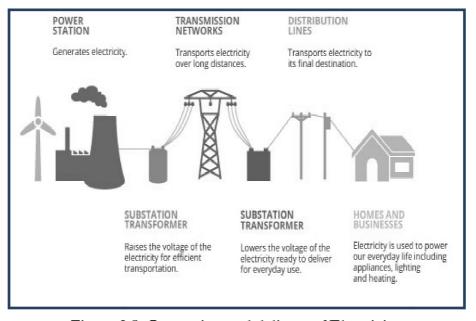


Figure 2.5: Generation and delivery of Electricity

2.3. Aggregated Technical and Commercial Losses in Power Systems.

Losses that occur in an electrical system can be termed as the Aggregated Technical and Commercial; AT&C losses. It is important to take into account this parameter because it paints a realistic picture of the energy and revenue loss situation in a utility company. It comprises of two elements: technical and commercial (Saadat, 2010).

According to annual reports (KPLC, 2012) 17.3% of the energy generated is lost along the transmission and distribution networks without being sold.

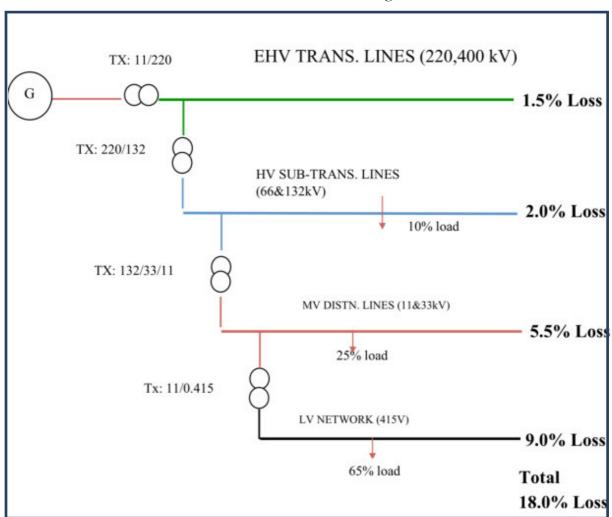


Figure 2.6: Simplified Transmission and Distribution System Diagram

As illustrated in Figure 2.6, The losses that occur on EHV Transmission lines is 1.5% of the total power transmitted. 2.0% of the total power is lost on the HV sub –Transmission lines. On the MV distribution lines, 5.5% of total power is lost; whereas 9% losses of the total power occurs on the LV network of the system.

Distribution losses constitute more than 80% of the total losses. Therefore, since the distribution losses constitute a big portion of the total losses it would be prudent to interrogate the efficiency of the power network and eliminate them as much as possible. The major handicap is that the differentiation between technical and commercial losses is not easily or at all known in the distribution network (Guymard, 2012).

This problem is not unique to KPLC alone, but prevalent in most of the Sub-Sahara African utility companies apart from South Africa and Botswana. Generation and transmission losses can be accurately measured and they are normally low, but distribution losses are hard to quantify and they are not accurately known.

2.3.1. Technical losses

Essentially, technical losses are largely brought about by transformation losses at various transformation levels. The physical nature of the equipment and infrastructure of power systems, i.e. copper losses- I²R in conductors, cables, transformers, switches and generators also contribute a lot to the losses. The level of technical losses varies with type of conductors and cables used, transformation capacity of transformers and reactive loads. The technical losses in a power system is normally calculated based on the physical properties of its components: resistance, reactance, capacitance, voltage, current and power. It is routinely calculated by utility companies as a way to specify what components will be added to the system (Suriyamongkol, 2002).

2.3.2. Commercial Losses

The power sector, more so in the developing countries is plagued by mounting losses due to various inefficiencies; colossal commercial and technical losses. The shortages brought about by these losses have very detrimental effects on the overall economic growth of a country. According to (Singh, 2009), commercial losses can be defined as any consumed energy or service which is not billed because of failure of measurement equipment or ill-intentioned and fraudulent manipulation of the said equipment. Therefore, detection of commercial losses includes detection of fraudulent users with the sole objective of eliminating them.

The commercial losses is the component of distribution system losses that is not related to the physical characteristics and functions of electrical system. They are difficult to quantify and they occur independently of technical losses in the power system. According to (Suriyamongkol, 2002), commercial losses are caused primarily by human error, whether intentional or not. They include the electric energy lost due to:

- Pilferage and theft of energy
- Tampering of meters
- Deficiencies in metering and billing system
- Unmetered supply
- Lack of energy accounting

Of particular interest to KPLC and which contributes tremendously to the commercial losses are the load losses due to pilferage. Some of the common modes for illegal abstraction or consumption are given below:

- Making illegal extension
- Tampering with the meter readings
- Willful burning of meters
- Changing the sequence of terminal wiring
- By passing the meter
- Changing CT ratio and reducing recording
- Errors in meter reading and recording
- Improper testing and calibration of meters.

2.3.2.1. Electricity theft

Electricity theft can be defined as a conscious attempt by a person to minimize or eliminate the amount of money the consumer ought to pay the utility for electric energy consumed. This could range from tampering with the meter to create false information used in billings to making unauthorized connections to the power grid according to (Singh, 2009).

Majority of utility companies and industry sources concur that the main component of commercial losses in a electricity, water, fuel and gas distribution systems are, meter tampering, meter malfunction, illegal connections and non-payments (World Bank,1999).

Figure 2.7, illustrates a meter which has been tampered with. The neutral terminal has been disconnected. The meter coils rotation is slowed by 58.2% its normal speed. Therefore it only records 41.8% of the actual power consumption.



Figure 2.7: A photograph showing a tempered energy meter.

KPLC is not an exception, electricity theft and nonpayment of bills has reached astronomical levels, which if left unchecked could easily cripple the operations of the utility company. As per the annual reports, (KPLC, 2012) as at the end of financial year 2012, the total bill arrears stood at a staggering figure of KSh. 8 Billion.

2.4. Management of electrical losses

According to (MOE, 2013) and as illustrated by Table 2.1, 41.55% of installed capacity is generated using thermal means. KPLC is not in control of the prices of the fossil fuels; therefore it is disadvantaged in setting the unit cost of electricity in that it cannot increase the selling price of electricity although the buying price keeps on increasing.

The management of electrical losses would present an enormous opportunity to save the utility company some financial difficulties. Indeed 17.3% of electricity generated is lost through transmission and distribution networks which according to any standards is quite high.

There is a concurrence by the industry experts that the accepted range for losses in developing countries is between 15-16% (EDF, 2010) (PRISME, 2011). This is still regarded high when compared with 6.5% for France and 7.2% for Sweden (Nation Master, 2013) (G. Launey, 2013).

Although in reality, there is no utility company in the world which has a distribution efficiency of 100%, it is imperative that KPLC can avail more capacity of a theoretical 308.5MW by reducing or eliminating its losses. This is a colossal amount of power that could cost millions of dollars to build the infrastructure that will generate it. Currently, there is no single plant that generates that amount of power in the country. According to the industry experts (EDF, 2011) averagely it is 3 times less expensive to spare 1kWh by reducing losses and by improving the overall efficiency than investing in a new means to produce the 1kWh.

2.4.1. Current Situation: Global sweeps

Like any other utility business, electricity network operations involves a lot of decision making at various points and levels. The subject of decision making normally vary a lot. For example, deciding where, when and how to carry out a typical global sweep. For any decision to achieve its intended goal there must be data to be relied on to arrive at it. The quality of initial data is crucial for decision making. In general, data with poor quality or lack of it lead to a poor decision choice.

According to (McNurling et al. 2009) human beings are actively subjective in making decisions. The decision made may be informed, for example by power, incentives and ambiguity. The human's capacity to process information is significantly limited and affected by stress and the need to meet timelines. The ability to define their objectives and their preferences greatly affects their decision making.

KPLC is not an exception. Normally the decisions, especially in network operation are often made based on employees' intuition and educated guesses. The main reason is the lack of better knowledge since there is a lot of data available which can be processed into information and can further be used to support decision making process.

As discussed earlier in this report, consumption of unmetered electricity in KPLC is quite prevalent and the company knows about it. But there is no scientific or systematic way of pinpointing where, when and how it is happening. It currently relies on a chancing mechanism internally known as Global Sweeps.

The meters are grouped and arranged in an order known as itineraries, essentially for ease of reading and billing. Therefore, once in a while when it is felt or suspected that there might be theft in such an itinerary, a blind sweep is carried on it with the hope that such theft will be netted.

The success of such exercise depends largely on the element of surprise on the potential thief rather than an informed decision. However, in many a times these pre-planned sweeps are leaked by the personnel who are in the know how. Most of the times, these sweeps normally return blanks.

2.5. The Concept of Ring Fencing

Put simply, ring fencing can be said to be accounting for and audit of the energy in a power system. One of the critical inputs for improved planning of the distribution systems is acquisition and recording of load flow data. The load flow data at all interface points provides critical information which normally assists in proper diagnosis of problems in the system and provides better ways on usage of electricity. Therefore, an energy accounting and audit system is essential for prioritization of specific projects under various schemes like ESRP, DA and other system improvement programs.

With the adoption of AMR, it is possible to actively monitor the status of the grid. Installation of meters with the ability of AMR, not only in the customer's premises but also higher up in the distribution network allows the utility companies to collect real time information on the status and the integrity of the grid (Korhonen, 2012).

If we make the secondary distribution transformer the focal point, it is possible to account for the units of the energy dispensed by the transformer against those consumed by individual customers connected to the particular transformer. In a nutshell if by use of Equation 2.1, the transformer is metered and input and output units accounted for as shown in the Figure 2.6, then units dispensed from it can be dimmed to have been ring fenced.

$$y = \varphi 1 + \varphi 2 + \varphi 3 + \varphi 4 \tag{2.1}$$

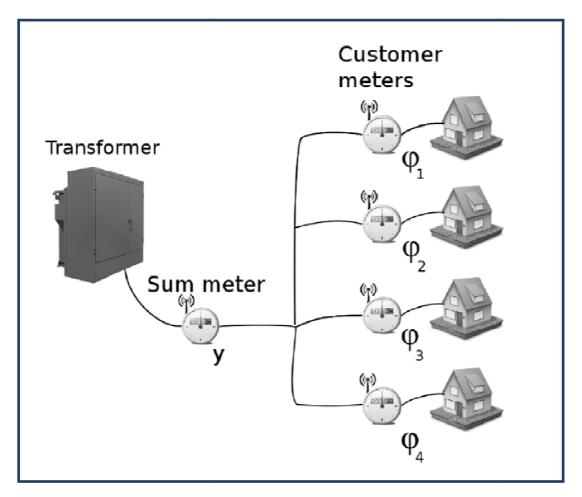


Figure 2.8: Configuration of electricity meters

2.6. Metering as a system

Energy metering commenced with the start of distribution of electricity. At inception electricity was primarily used for lighting. At the time of billing the customers for the electricity consumed, the utility company would count the number of bulbs that customer

had and bill him/her based on the number of bulbs (Lamphier, 1925). The customers at that point in time were not getting value for their money since there was a likelihood of overbilling. Therefore there arose the need to find a way of accurately measuring the energy consumed; and the Watt-hour meter was born.

As the power networks expanded in size and the advancement of information technology, there grew the need to incorporate it into the energy metering system. Therefore, the metering technology has evolved over time from the rudimentary Watthour meter to the quite advanced smart meters available in the market today.

Metering plays a very critical role in generation, evacuation and delivery of power to the consumers. It provides an avenue where information on how much energy a customer consumes and the pattern of consumption. This information is critical to both the consumer and the utility company generating and delivering the power.

2.6.1. Automatic Metering Reading System in KPLC

Automatic Meter Reading is a remote collection of consumption data from consumers' utility meters by use of either radio frequency, packet, satellite and power lines communication technologies. AMR provides water, gas and electric utility- service companies the opportunity to increase operational efficiency, improve customer service, reduce data collection costs and quickly gather critical information that provides insight to decision making (Garcia, 2012).

It combines the mechanical rotary type counter with its related technologies, such as advanced control, wireless digital communication, sensor embedded system and database management system. It displays the amount of energy that has been consumed (Derbel, 2008), (Goh, 2003).

Until recently KPLC was using the static meters to measure the electric energy consumed by its customers. When it decided to adopt the Automatic Meter Reading, it procured both that has the feature of pre and post payment.

The meters with the prepaid feature were installed for the small domestic and commercial customers. They were installed primarily to enable the utility company to collect its debt

since this category of customers has to pay prior to consuming the energy. Unfortunately, the meters don't have any communication ability with any central server. The only communication is between the User Interface Unit (UIU) and the meter which is installed either on the terminal pole for the stand alone premises or on a central metering panel for units of flats or apartments.

Large power customers have been provided with the smart meters that have got a communication channel and are connected to a central server. Normally, these meters are postpaid because of the amount of units that the customers consume in a billing cycle. Not only are they used to meter large power customers, they are also used to meter all the distribution feeders and currently being rolled out to meter the distribution transformers.

2.6.2. Usage of AMR in managing commercial losses: A hope for KPLC

KPLC like any other business concern is struggling with a bulging uncollected debt and poor distribution system efficiency. These factors are enormously affecting the cash flow in the company since KPLC pays in advance for the power procured from the power generators. In 2010, KPLC introduced the Automatic Meter Reading system with the main emphasis being the prepayment feature of the system for small domestic and commercial customers. This cluster of customers forms the majority of the customer base. It also retrofitted all the large power meters with the smart ones.

The prepayment feature of the meters presented an opportunity to the utility company to collect payments of electricity bills by its customers before they utilize it. Apart from managing the debt of customers, this feature gave the customer an opportunity to control his/her consumption. Definitely when customers pay for the services in advance before utilizing it, they tend to use less power than when they were paying after the services have been rendered. This will result in the customer managing his/her power more prudently and efficiently. The customer will actually use less for more and thereby saving some power (Kozlova, 2012) (Venables, 2007).

This project seeks to find out if this power savings by the use of AMI is significant enough and cumulatively can lower the total demand and with the ultimate goal of improving the efficiency of the distribution network.

The total consumption of electricity in Kenya has steadily been increasing as represented by Figure 2.9. This can be attributed largely to increased electricity infrastructural development and the general economic growth.

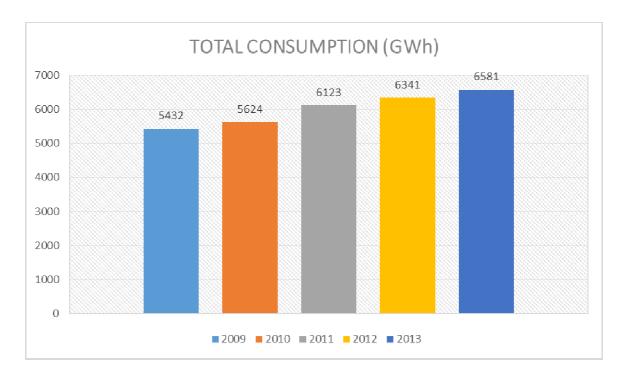


Figure 2.9: Total Electricity consumption in Kenya: Source, KPLC, 2014

2.6.3. Usage of AMI by other Utility Companies to manage Losses

Wide afield, other power distribution companies have demonstrated that, AMI can be used to investigate and control the commercial losses on their distribution networks. The most successful distribution companies that have used the methodology are in the developing countries of South America and Asia.

2.6.3.1. Uttar Pradesh Power Corporation Limited (UPPCL)

Uttar Pradesh Power Corporation is the utility company mandated to distribute and retail electricity in the state of Uttar Pradesh, India. The company is owned by State Energy Board (SEB) of Uttar Pradesh. Like other SEBs in India, it has high level of distribution losses. In the Financial Year 2010 - 2011, the overall AT&C for India was 26.15%. Uttar Pradesh, had the highest AT&C of 40.8% (Mohanty et al, 2013).

In the year 2010, the Indian Government with the various SEBs introduced a program called Restructured Accelerated Power Development and Reforms Program (RAPDRP). The overall objective of the program was to reduce the AT&C losses by 15% in a period of 5 years; 2010-2015.

The program was divided into two parts; A and B. The objective of part A were:

- Develop baseline data for the program
- Consumer indexing
- GIS mapping
- Metering of Feeders and Distribution Transformers
- Replacement of electromagnetic meters with AMR meters
- Adoption of IT applications for meter reading, billing and collection
- Energy accounting and auditing

Part B of the program was mainly to reduce the technical losses, and the main objectives were:

- Renovation of MV distribution lines
- Load bifurcation
- Feeder splitting and optimization
- Replacement of bare conductors with aerial bunched conductor in densely populated areas.

In the Financial Year 2014-2015, the AT&C losses for UPPCL was 27.66% (UPPCL, 2015). It is estimated that for the Financial Year 2015-2016, the AT&C would be 26.66% which compares well with the target for the overall objective of the program.

Therefore, by using AMI, to ring - fence its feeders and distribution transformers, UPPCL demonstrated that it reduced the AT&C losses by 14.14% in its distribution network, in the period of 5 years.

2.6.3.2. CODENSA, Bogota

The company is partly owned by Enersis Group which operates other electricity distribution companies in Argentina, Peru, Chile and Brazil in South America.

It is mandated to distribute and retail electricity in Bogota, the capital city of Colombia. It was created in 1998 when the integrated electricity company Empresa de Energía de Bogotá (EEB) was unbundled to generation, transmission, distribution and retails subsectors.

At the time of the unbundling, the AT&C losses of CODENSA was 22%. The major contributor of these losses were; illegal connections, unmetered supplies and uncollected revenue occasioned by the political instability and cartels involved in drug trafficking.

Because of the know-how and experience it had gained from successful reduction of AT&C losses in similar markets of Argentina, Chile, Peru and Brazil (Antmann, 2009), the company deployed the AMI. The system was able to segment the customers and sector the geographical area served. The system was able to provide the integral metering management, accurate reading, billing, collection, disconnection – reconnection and inspection of meters. Consequently, by the year 2007, the AT&C losses had significantly reduced from 22% in 1998 to 9%.

2.7. Load Flow Study

A load flow study is a steady state analysis whose target is to establish the voltages, currents and real and reactive power flows in a system under a given load conditions (Ghosh et al, 1999). The purpose of load flow studies is to plan ahead and account for various hypothetical situations. For example, if an equipment, like a transmission line in the network is to be taken off line for maintenance, can the remaining equipment in the system handle the required load without exceeding their rated values (Mekhamer et al, 2002).

The basic load flow study equation is derived from nodal analysis equations for the power system. Taking an example of a 4 – bus system, the load flow analysis equation is given as follows:

$$\begin{bmatrix} Y_{11} & Y_{12} & Y_{13} & Y_{14} \\ Y_{21} & Y_{22} & Y_{23} & Y_{24} \\ Y_{31} & Y_{32} & Y_{33} & Y_{34} \\ Y_{41} & Y_{42} & Y_{43} & Y_{44} \end{bmatrix} \begin{bmatrix} V_1 \\ V_2 \\ V_3 \\ V_4 \end{bmatrix} = \begin{bmatrix} I_1 \\ I_2 \\ I_3 \\ I_4 \end{bmatrix}$$
 (2.2)

Where Y_{ij} are the elements of the bus admittance matrix, V_i are the bus voltages, and I_i are the currents injected at each node. The node equation at the bus can then be written as follows:

$$I_i = \sum_{j=1}^n Y_{ij} V_j \tag{2.3}$$

The relationship between per unit real and reactive power supplied to the system at bus *i* and the per unit current injected into the system at that bus:

$$S_i = V_i I_i^* = P_i +_i Q_i (2.4)$$

Where V_i is the per unit voltage at the bus; I_i^* is the complex conjugate of the per unit current injected at the bus; P_i and Q_i are the real and reactive powers of the network. Therefore,

$$I_i^* = P_i + Q_i / V_i \rightarrow I_i = (P_i - Q_i) / V_i^*$$
 (2.5)

$$\rightarrow P_i -_j Q_i = V_i^* \sum_{j=1}^n Y_{ij} V_j = \sum_{j=1}^n Y_{ij} V_j V_i^*$$

By letting

$$Y_{ij} = |Y_{ij}| \angle \theta_{ij}$$

And

$$V_i = |V_i| \angle \delta_i$$

Then

$$P_i -_j Q_i = \sum_{j=1}^n |Y_{ij}| |V_j| |V_i| \angle (\theta_{ij} + \delta_j - \delta_i)$$

Hence

$$P_i = \sum_{j=1}^{n} |Y_{ij}| |V_j| |V_i| cos(\theta_{ij} + \delta_j - \delta_i)$$
 (2.6)

And

$$Q_i = -\sum_{j=1}^{n} |Y_{ij}| |V_j| |V_i| sin(\theta_{ij} + \delta_j - \delta_i)$$
(2.7)

There are four variables that are associated with each bus:

P- Real power

Q- Reactive power

V- Voltage magnitude

 δ - Voltage angle

Meanwhile, there are two power flow equations associated with each bus. According to (Srinivas, 1999) in a load flow study, two of the four variables are defined and the other two are unknown. That way, there are the same numbers of equations as the number of the unknown. The known and unknown variables depend on the type of the bus. Each bus in a power system can be classified as one of the three types.

- i. Load bus (P-Q bus) a bus at which the real and reactive powers are specified, and for which the bus voltage will be calculated. All buses having no generators are load buses. In here, V and δ is the unknown.
- ii. Generator bus (P-V bus) a bus at which the magnitude of the voltage is defined and is kept constant by adjusting the field current of a synchronous generator. Real power generation is assigned for each generator according to economic dispAT&Ch. Q and δ are the unknown on this bus.
- iii. Slack (swing bus) a specified generator bus serving as the reference bus. Its voltage is assumed to be fixed in both magnitude and phase. P and Q are the unknown parameters.

It was necessary to carry out a simple load flow study of the Kapsoya 11kV distribution feeder line in order to ascertain that the electrical power is economically transferred over the system network with the maximum efficiency and reliability at constant voltage and frequency to consumers. A model of the distribution feeder network was done, where the value of real and reactive powers and voltage magnitudes were obtained.

To overcome the computational problems of power flow solution using load flow iterative techniques; Newton – Raphson and Gauss Seidel, a model of the Kapsoya 11kV Feeder was established. The model is based on real data that represent the real conditions of the network. The network is then simulated using the network study, analyzing and management software Power Systems Analyzing Framework (PSAF).

By simulating the model, the expected results can be observed at every point of interest. The modelling and simulation of the distribution network on PSAF are conducted with the main objective of establishing the voltage profiles and technical losses on the 11kV and LV feeders.

CHAPTER 3

3.0. Research Methodology

This chapter details out the methodology that was used to establish AT&C losses level as a whole for Kapsoya 11kV Distribution Feeder. The feeder primarily serves Kapsoya Estate in Uasin Gishu County.

3.1. General Approach.

In order to investigate the AT&C losses on Kapsoya 11kV feeder, a model of the distribution network was developed. The model was then studied and analyzed so as meet the objective of the project. Primary and secondary data was used for analyzing and developing the model of the study. Primary data was obtained from field readings and measurements of the load data.

Meanwhile secondary data was obtained from official consumption records, Kenya Power and Lighting Limited Annual reports and KPLC customer database. There are 22 secondary distribution transformers on the feeder and 878 consumers represented by respective account numbers. The process that was followed was:

- Establish the AT & C losses before ring fencing of the 22 secondary distribution transformers.
- Determine the AT & C losses after ring fencing of the 22 secondary distribution transformers.
- Simulate a load flow for the Kapsoya 11kV distribution feeder.
- Obtain technical losses for the Kapsoya 11kV distribution feeder.

Technical losses for the MV distribution network was obtained just to establish the general overview of the performance of the network. Otherwise, at both stages i.e. before ring fencing and after of the secondary distribution transformers, the Technical Losses will remain the same and cancel out. Therefore, it is possible to detect any change in the commercial losses.

3.2. The Project Area

The project area was chosen primarily because the static postpaid meters in there had recently been retrofitted with prepaid AMR meters. These prepaid meters were installed to primarily manage the consumption debt. Therefore, by using this system for more than what it was intended for was very attractive and worth researching on it. Also the project area is served exclusively by the feeder, hence there is no need for installing export and import meters to the project area which subsequently simplifies the methodology and makes it cheaper.

Additionally, the composition of the population in the area is substantially varied both socially and economically. Therefore, the results that were obtained would provide a more valid conclusion. More importantly, there have been inconsistences on what the meter feeder installed at the takeoff recorded and the summation of consumption units of the project area. This pointed to the fact that there were some power losses resulting from meter bypasses and meter tempering.

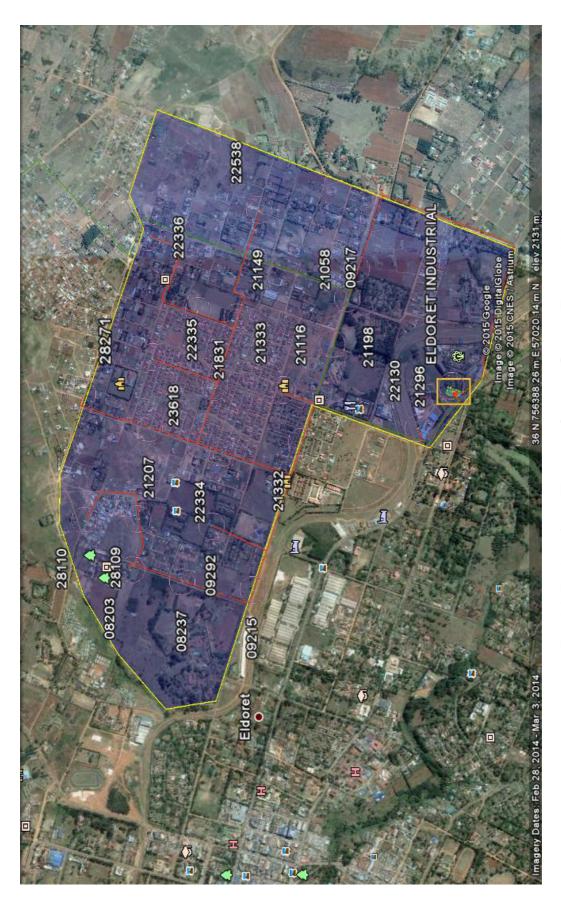


Fig 3.1: Project Area Kapsoya. Source, Google Earth, 2014.

3.3. Recent research on this field.

Recent research by (Kärenlampi, 2010), (Suriyamongkol, 2002), (Korhonen, 2012) and (Guymard, 2012) on this field of optimizing on the use of AMI with the view of reduction of commercial losses in an electrical network, greatly helped to distill and crystalize the method used for this research. The fact that they have done their research on this field still leaves room to fuse the two areas, commercial losses and AMI. This project was intended to explore the possibility of making the most of the AMI other than what is being used for or has been researched on before. Therefore, ideas were not started from the scratch but were built on what had been done before.

3.4. Data source.

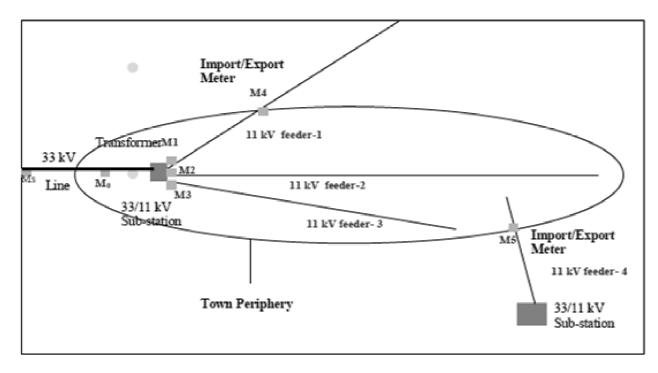
The primary source of the data for this research was field measurements and recording. Whereas, the secondary data was extracted from the consumption records stored in Integrated Customer System (ICS) and Itron systems of KPLC. The consumption data of 878 customers when they were metered on postpaid metering was extracted. Thereafter, the consumption for the same customers after ring fencing of the secondary distribution transformers is collected and analyzed to contextualize the relationship between the two scenarios.

3.5. Prerequisites

There are pre-requisites which are needed to be in place so that the results of the study can remain valid both before ring fencing of the secondary distribution transformers and after. Some of these conditions are:

3.5.1. Metering of Energy input to project area

It is necessary that energy input points of the projects areas' electrical network are metered. These meters have to be installed on all such points so that the same can accurately be read. It is preferred that the meters with the ability of being read remotely be installed.



- M represents meters installed at various points
- represents 33/11 kV transformer

Figure 3.2: Metering of the energy input and output points of the project area

KPLC has metered all its feeder lines with AMR meters. Therefore, for success of this project AMR meters were installed on the individual secondary distribution transformers on the feeder line. And luckily, the project area is served entirely by one feeder and it does not go beyond the project area. Therefore, there was no need to install an export meter to measure the energy carried by the feeder beyond the project area.

3.5.2. Ring fencing the secondary distribution transformers of the project area.

The next pre-requisite was to electrically ring fence the secondary distribution transformers on the feeder. It was done primarily to measure the net input energy i.e. the variance of energy entering into every secondary distribution transformer and the consumption of customers connected to that particular transformer of the project area by installing secondary distribution transformers AMR meters and customer prepaid meters.

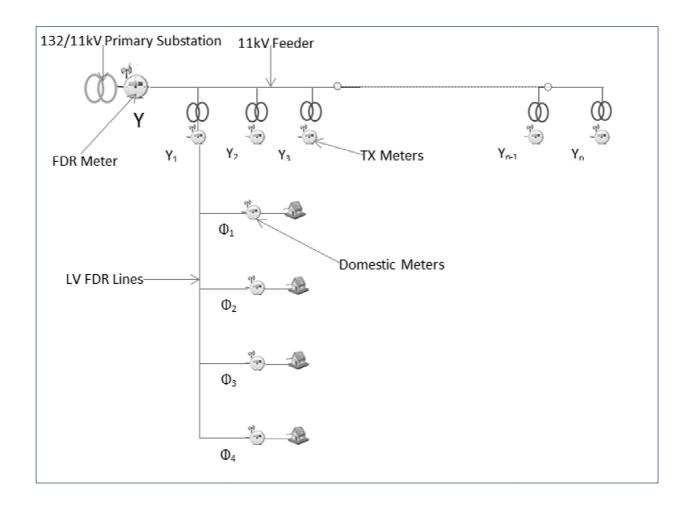


Figure 3.3: Metering the Secondary Distribution Transformers and the Feeder.

3.6. Billing and Revenue Collection System.

The billing system is preferred because it has the capability to provide data like sales, revenue billed and collected for the entire project area.

Normally under the prevailing system in utilities, billing system is designed in such a way that sales data can be extracted for the 11/33kV feeder or for the distribution center as a whole. This data may include sales which may have happened outside the project area.

In such cases it would be necessary to make provisions to account for the sales happenings outside the project area. Similarly by extracting the data for revenue billed and collected within and outside project area necessary provisions in billing systems and shall be required to be made by the utility company.

3.6.1. Computation of input energy

Electricity in Kenya is distributed in both 33kV and 11kV feeder lines and immediately after transformations/step down are low voltage distribution lines of 415 and 240V and services lines. The choice of which lines to use primarily depends on the population size of the area to be supplied, the distance from primary substation and the load of the supply points.

Before the ring fencing of secondary distribution transformers, the total energy consumption of the project area was measured using the already existing AMR meter on the takeoff of the feeder at the primary substation. The chosen feeder for this project exclusively servers the project area. Therefore, the meter at the input point of the feeder was read at an interval of one month for three billing cycles.

After the ring fencing of the transformers by use of AMR meters, the input energy to the secondary distribution transformers is measured. Also, the individual customer consumption units are extracted for the prepaid meters connected to the particular secondary transformers for an interval of one month and for the three billing cycles.

3.6.2. Computation of Sales

As it has been mentioned earlier, for the total energy supplied some is lost in the form of heat dissipation and which is termed as technical losses. Some as well is lost as a result of variances in meter reading, non-metering and theft which can be collectively termed as commercial losses.

When the new metering system was recently introduced, the old energy static meters were retrofitted with the AMR; prepaid for individual consumption. It is safely assumed that all the customers within the area of study have been metered, unless illegal connections. Since the metering is pre-paid, it can be assumed therefore, that the meter reading coverage was 100%. This is very critical in calculation of consumption sales.

Therefore, sales in terms of billed energy and corresponding billed revenue in the project area is computed by summing the total energy consumed during the defined period by all

the consumers indicated in the consumption records. The details of how sales were computed within the project area are shown in Appendix A.

3.6.3. Computation of Billing Efficiency

Billing Efficiency can be termed as an indicator of proportion of energy that has been supplied and billed to an area. It can be computed use of Equation 3.1:

$$Billing \ Efficiency = \frac{Total \ Units \ Sold \ (kWh)}{Total \ Input \ (kWh)}$$
(3.1)

3.6.4. Computation of Collection Efficiency

All consumers are billed on the basis of energy they consume. This is obtained from metering consumption records in Itron system. The billing amount is computed on the basis of the tariff for applicable customer category.

Collection efficiency was established using Equation 3.2:

$$Collection \ Efficiency = \frac{Revenue \ Collected \ (kSh)}{Billed \ Amount \ (kSh)}$$
(3.2)

The revenue collected excluded arrears since customers pay before consumption having been retrofitted with prepaid meters. Therefore the Collection Efficiency of the project area was expected to be $\leq 100\%$.

3.7. Determination of AT &C Losses

The Aggregate Technical and Commercial Losses of the project area is then established using Equation 3.3:

 $AT\&C\ Losses = \{1 - (Billing\ Efficiency\ x\ Collection\ Efficiency)\}\ x\ 100\ (3.3)$

Where;

$$Billing \ Efficiency = \frac{Total \ Units \ Sold \ (kWh)}{Total \ Input \ (kWh)}$$

And

$$Collection \ Efficiency = \frac{Revenue \ Collected \ (kSh)}{Billed \ Amount \ (kSh)}$$

The result is then tabulated in the Table 3.1.

Table 3.1: Table of Computation of AT & C losses of the Feeder_

No.	Description	Notation	Pre Ring	Post Ring
			Fencing	Fencing
1	Input Energy	\mathbf{E}_{i}		
	(kWh)			
	Total Energy	\mathbf{E}_{b}		
	Billed (kWh)			
3	Amount Billed	A_b		
	(KSh)			
	Gross Amount	A_{G}		
	Collected (KSh)			
5	Billing Efficiency	$\varphi = Eb/$		
		Eix100%		
	Collection	$\omega = AG/$		
	Efficiency	Abx100%		
7	AT&C Losses	{1		
		$-(\varphi x\omega)$ x 100%		

3.7.1. AT&C Losses before ring fencing

The AT&C losses were established before the installation of AMR meters to ring fence the secondary distribution transformers in the project area using the methodology which has just been described.

Three billing cycle's data such as energy inflow and outflow and corresponding revenue collected for computation of the initial level AT&C losses for the project area by the usage of Equation 3.3.

The primary source of the data for the establishment of AT&C losses is obtained from:

- 1. Outflow of energy to the project area by the feeder meter.
- 2. The energy sales figures, energy billed and revenue collected were as per the consumption billing and collection records.

3.7.2. AT&C Losses after Ring Fencing

The primary aim of this project is to ring fence each secondary distribution transformer of the project area by the use of AMR with the view of reducing the commercial losses. Therefore after the installation of meters energy inflow and outflow into every individual secondary distribution transformer and corresponding revenue, billing data and consumption data is collected. There after the AT&C losses is established and recorded in Table 3.1.

3.8. Modelling of Industrial Distribution Network.

In order to carry out the Load Flow study and determine the technical losses of the Kapsoya 11kV distribution feeder, it was necessary to establish a one line diagram of the distribution network connected to the Industrial Substation. The one line diagram of Industrial distribution network was established as shown in Figure 3.4. The utility company has multi - voltage systems with a substation and transformers between each of these levels. It consists of one - single 33kV Rivatex transmission line feeding Industrial 11kV injection substation. The utilities which are involved in the distribution of electricity are;

- 33kV Rivatex transmission line
- 2x 15MVA, 33/11kV Transformers
- 11kV Kapsoya Distribution Feeder
- 11kV KCC Distribution Feeder
- 11kV ELDOWAS Distribution Feeder

The sections to be modelled are those which draw power from Rivatex transmission substation. Three 11kV feeders emanate from the industrial injection substation. From the single line diagram illustrated by Figure 3.4 of the modelled distribution grid, the procedure for the load flow study is adopted starting from top to bottom and is as follows:

- The power grid. This represents the network system up to the secondary distribution. It is set to swing mode because it makes up the difference between the scheduled loads and generated power.
- The 33kV transmission line, the 33kV incomer bus bar connected to the industrial T1 and T2 33/11kV transformers are then modelled.

Inside the substation are feeders which distribute the stepped- down power to various networks. The industrial injection substation has:

- Kapsoya 11kV FDR. It serves Kapsoya Estate, the project area. It has 4x50kVA, 3x100kVA, 7x200kVA, 7x315kVA secondary distribution transformers connected to it and is 5.1km in length.
- KCC 11kV FDR. This is the feeder that serves KCC Eldoret factory and surrounding consumers. It has 1x1000kVA secondary distribution transformer. It is 1.8km in length.
- Eldowas 11kV FDR. It serves Eldowas water pumping plant and neighboring customers. It is 2.8km long.

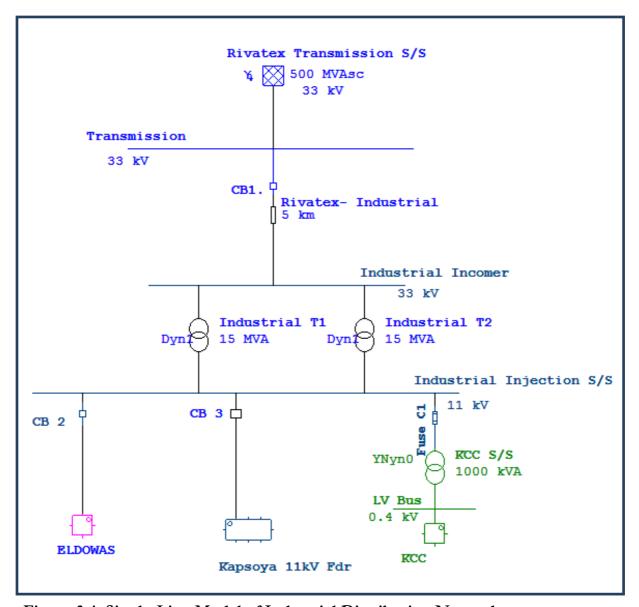
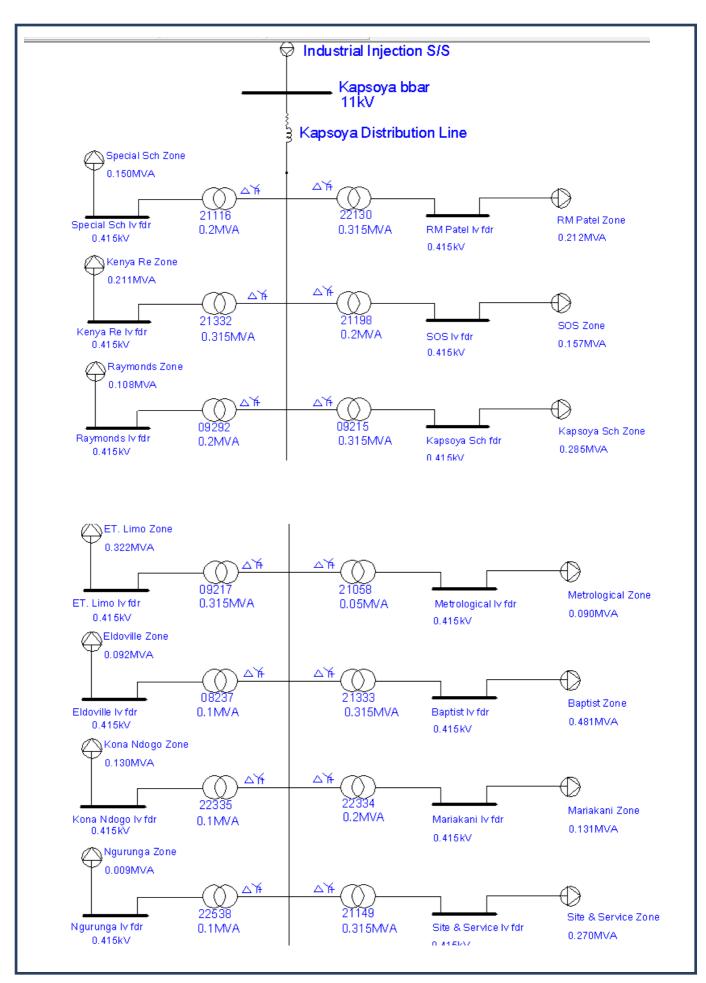


Figure 3.4: Single-Line Model of Industrial Distribution Network

The mentioned feeders are modelled in PSAF as composite networks which comprise the 11kV feeder lines, the distribution transformers and the low voltage feeders.

The model for Kapsoya 11kV feeder is shown in Figure 3.5. The other two feeders are modelled in the same format and are represented as composite networks.



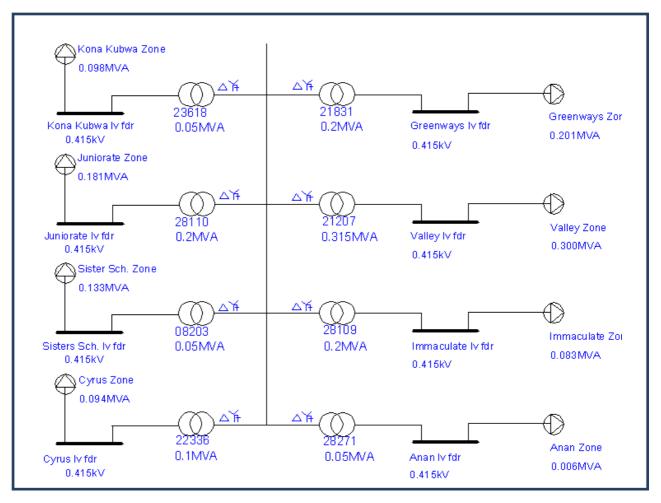


Figure 3.5: Single- Line Model of Kapsoya 11kV Feeder

3.9. Determination of Technical Losses on the Kapsoya 11kV Feeder

To simulate the technical losses on the Kapsoya 11kV Feeder line, transformers and the conductors data were required as input in PSAF software.

• For Transformers:

- ➤ Configuration of windings in the primary and secondary side: For transformers rated 100kVA and below: Primary side windings, Y configuration and Zig Zag configuration for the secondary windings were used. Whereas for transformers rated 100kVA and above: D configuration for primary windings and Y configuration for secondary windings were used.
- The resistance and reactance of the windings will be inserted in the PSAF
- The rating of each transformer on the feeder will be inserted in PSAF.

• Overhead conductors:

- Resistance and reactance per meter. Manufacturer catalogue was used to obtain this information. This data depends on cross-sectional area and the type of the material used.
- ➤ Length of the line. The distance between two transformers and the total distance of the feeder were established and inserted in PSAF.
- Loads: Load supplied by each transformer were measured. Measurements were performed at the peak period of the day, approximately 1200Hrs for industrial consumers and 2030Hrs for domestic consumers.

CHAPTER 4

4.0. Results

For the purpose of recording and presentation of the results obtained, tables of data and graphs are used.

Since the primary objective of this study is to find out if ring fencing of distribution transformers using AMI could result in reduction of commercial losses, two scenarios arose.

4.1. Scenario I: AT&C Losses before ring fencing

The consumption records of these consumers stored in the ICS system before ring fencing of the secondary distribution transformers was retrieved from the said system and tabulated in Appendix 1. The aggregated data was then presented in table 4.1:

Table 4.1: Aggregated power consumption before ring fencing

Name of FDR	Input Energy	Energy Sales within	Amount Billed within	Revenue Collected within
	(kWh)	Project Area (kWh)	Project Area (Ksh.)	Project Area (Ksh.)
Kapsoya Ex Eldoret	325589	245050	3,631,492	3,631,492
Industrial				

Input Energy was obtained from the AMR meter at the takeoff of the feeder line at the primary distribution substation. Energy Sales is considered as the summation of consumption reading for 878 individual AMR meters within the project area as shown in Appendix A. The amount Billed is the summation of the entire amount Billed of the said accounts within the billing cycle. The Revenue collected is money collected for three reading cycles.

4.2. Scenario II: AT&C Losses after ring fencing

This scenario is achieved by metering all the 22 distribution transformers using nonpayment AMR. The consumption records for the period under study of the 878 accounts was retrieved from the Itron system and tabulated as shown in Table 4.2.

The input energy is obtained by extracting the Feeder meter reading for the three billing cycles from the consumption records in Itron system. The output energy of the secondary distribution transformers was gotten by summation of the energy expended by the transformers on the feeder for the period under study as tabulated in Appendix A. Lastly, since the meters within the project area are all prepaid meters, the Revenue collected was devoid of any arrears. Therefore the revenue collected for the entire projected area, was summed up for the individual AMR meters for the energy sales within the area. The summation of consumption units of the prepaid meters were tabulated in Table 4.2.

Table 4.2: Summation of power consumption after ring fencing for three consecutive billing cycles.

Name of FDR	Input	Measured	Energy Sales	Amount Billed	Revenue
	Energy	Energy of	of the	within Project	Collected within
	(kWh)	Transformers	Transformer	Area (Ksh.)	Project Area
		within	within Project		(Ksh.)
		Project Area	Area		
		(kWh)	(kWh)		
Kapsoya Ex Eldoret	326601	295,891	294,665	4220644	4220644
Industrial					

As it has been explained earlier on the methodology to follow in carrying out this research, the data for the period when there was no ring fencing was obtained since it is hard to perform a control experiment.

4.3. Load Flow Simulation for the modelled network

When the load flow simulation for the Industrial- Kapsoya Distribution model network was performed, the conditions of the HV, LV feeder lines and transformers were established as shown in Figure 4.1. It was determined that the real power supplied to Kapsoya 11kV feeder was 3143kW which compares well with the 3144kW that the energy meter at the takeoff of the feeder registered. The total summation of the real power recorded by the meters at the low voltage takeoff of the distribution transformers,

is 3026kW as illustrated by data in Appendix D. The reactive power was 1292kVAr. For KCC 11kV feeder the real power supplied to it was 408kW and reactive power was 288kVAr. Finally, the real power injected to Eldowas 11kV feeder was 76kW while 2kVAr was the reactive power.

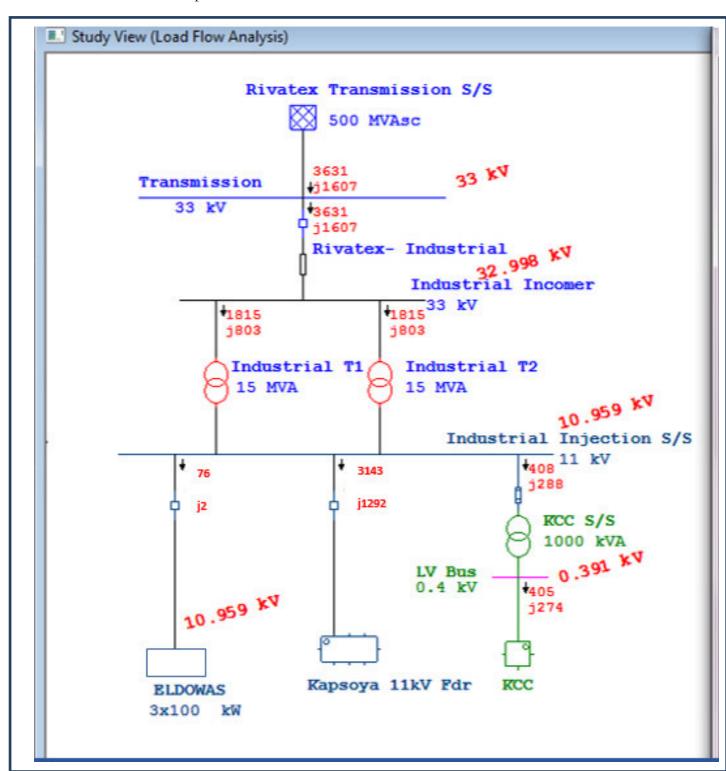
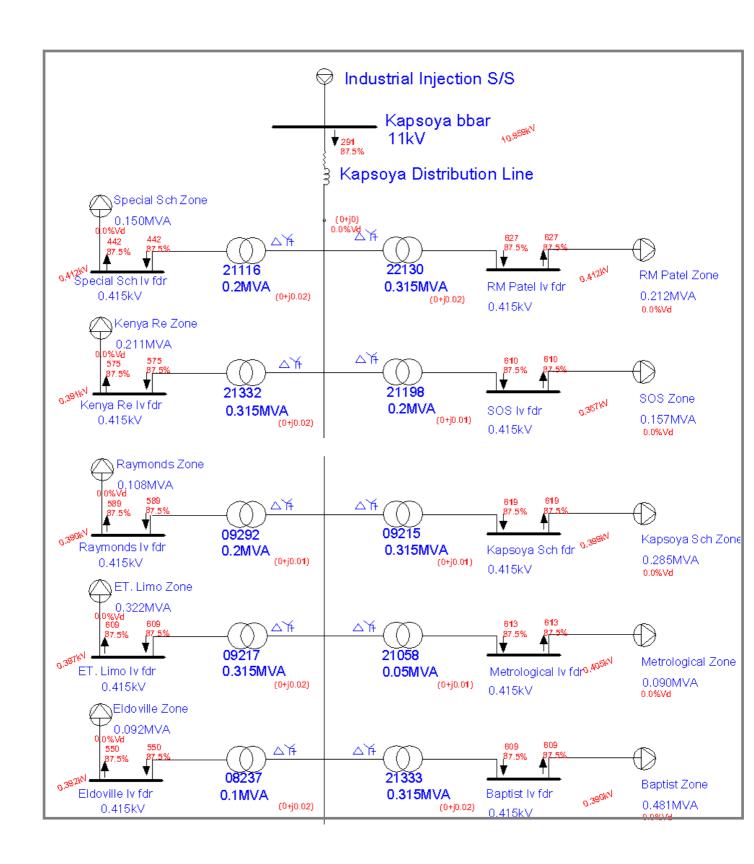


Figure 4.1: Load Flow Simulation for Industrial Distribution Network



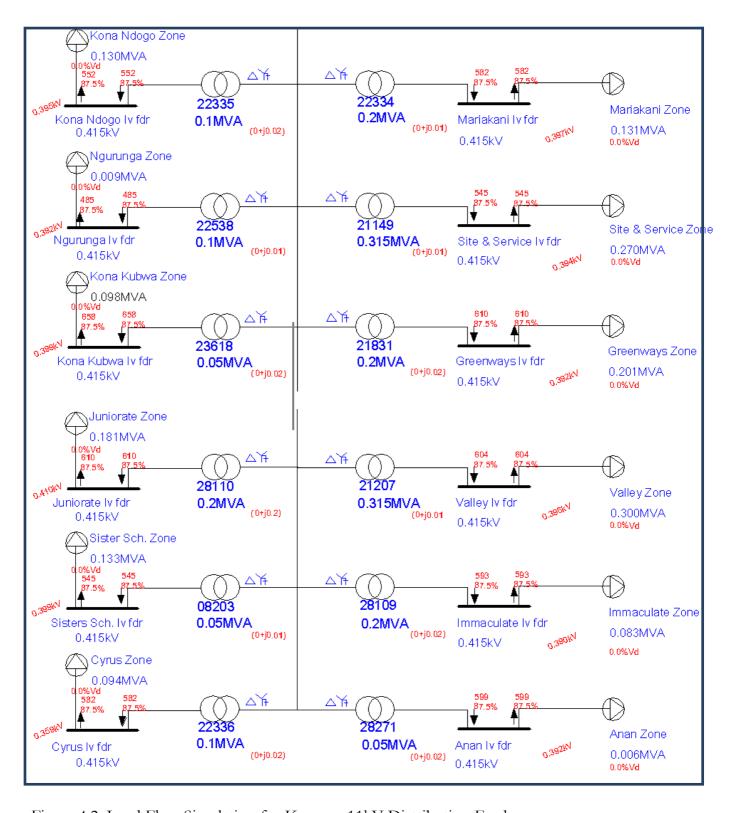


Figure 4.2: Load Flow Simulation for Kapsoya 11kV Distribution Feeder.

4.4. Technical losses on Kapsoya Feeder (FDR)

When the data for the feeder is simulated on PSAF, the technical losses on the line were established when loading of the feeder was maximum as represented by Appendix D. The losses in the transformers were separated from those that are as a result of impedance of the line. Results are presented on Table 4.3. Losses were proportional to the square of the load (I²R).

Table 4.3: Technical Losses on the Kapsoya 11kV FDR

Name of	Supplied	Losses in	Losses in	Total Losses	Total
FDR	Power to	Line FDR	Transformers	(kW)	(%)
	FDR (kW)	(kW)	(kW)		
Kapsoya	3026	192.086	26.599	218.685	7.23
11kV FDR					

4.5. Data Analysis

The results that were obtained from the two scenarios and model simulations were tabulated and subjected to the formulae that were listed on the method of carrying out the research. The results are presented on Table 4.4.

Table 4.4: Table of computation of AT&C Losses

No.	Description	Notation	Pre Ring	Post Ring
			Fencing	Fencing
1	Input Energy	E _i	325,589	326,601
	(kWh)			
	Total Energy	E _b	245,050	294,665
	Billed (kWh)			
3	Amount Billed	$A_{\rm b}$	3,631,492	4,220,644
	(KSh)			
	Gross Amount	A_{G}	3,631,492	4,220,644
	Collected (KSh)			
5	Billing Efficiency	$\varphi = Eb/$	75.26	90.22
	(%)	Eix100%		
	Collection	$\omega = AG/$	100	100
	Efficiency (%)	<i>Ab</i> x100%		
7	AT&C Losses (%)	{1	24.74	9.78
		$-(\varphi x\omega)$ x 100%		

4.5.1. Scenario I: Power consumption before ring fencing

The feeder meter at the primary substation recorded a total of 325,589 kWh for the three reading cycles. The amount that was billed for the same period was 245,050 kWh. The AT&C losses of the feeder were therefore 24.74% as shown in Figure 4.3 which is higher than the average AT&C losses for the entire KPLC system which stood at 17.3%

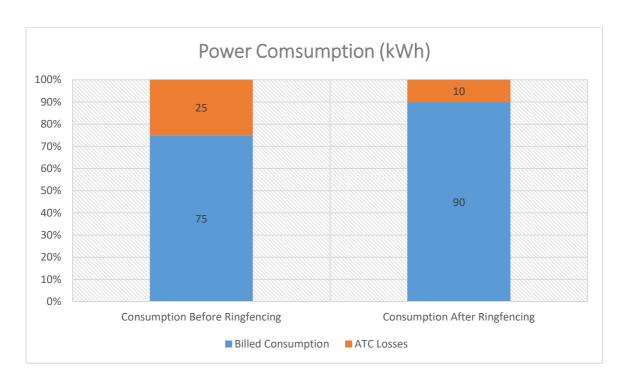


Figure 4.3: A chart of Power consumption before and after ring fencing

It is worth to note that in the project area, all the households had been connected to electricity; therefore the likelihood of illegal connection was very remote since there was no new house that was put up during the study period. Therefore, these losses must be as a result of meter tempering, bypass and the technical aspect of the network.

4.5.2. Scenario II: Power consumption after ring fencing

After metering the secondary distribution transformers on the feeder, the units recorded at the mother meter at the primary substation recorded 326,601 kWh units for a period of 3 billing cycles. The summation of the units dispensed by each secondary distribution transformer was 295891kWh and the units billed for all the accounts in the project area were 294,665 kWh. Therefore the AT& C losses for the feeder after ring fencing all the distribution transformers were calculated to be 9.78% for the 3 billing cycles as shown in Figure 4.3.

This is a significant reduction of 14.96% in AT&C losses. This can be attributed to the accounting of the energy in the power delivery highway and the actual consumption.

4.6. Consumption behaviors of customers

Consumption data of different customers presented varied patterns. There were those consumers whose consumption patterns remained relatively constant before and after ring fencing. Such consumers were dimmed to be good consumers since their load consumption nearly assumed a flat table profile.

However, there were those consumers whose consumption patterns differed a lot for the period under study more specifically before ring fencing of the secondary distribution transformers. But after ring fencing, their consumption pattern became more consistent. Such customers were dimmed to be suspicious consumers.

This kind of profiling of consumption, presented the opportunity to target them for more analysis on the way their connection through the meter is done.

4.6.1. Consumption profile of a Suspicious Consumer:

When the consumption records of customers are analyzed, some accounts out rightly show disparities with previous records. This will raise a red flag and call for more investigation on to the account. An example is Figure 4.4, the consumption for the 3 reading cycle before ring fencing showed that for the first cycle, the consumer recorded 65kWh of consumption units, second cycle was 386kWh and last cycle was 173kWh. For the 3 reading cycles the total consumption was 624kWh.

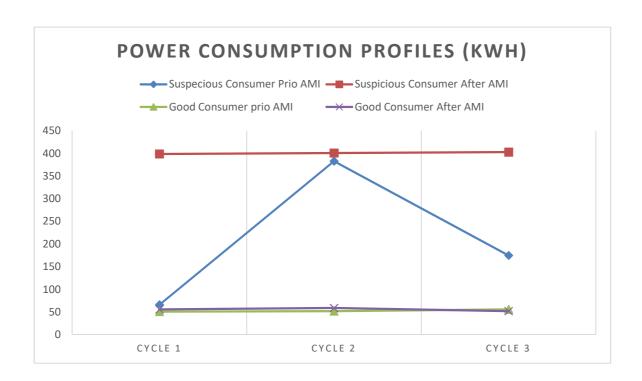


Figure 4.4: Power Consumption before and after ring fencing

After ring fencing, the consumption was 399kWh for the first cycle, 401kWh for the second cycle and 403kWh for the third cycle as represented by Figure 4.4. When the consumption for the particular account is done for the 3 reading cycles, 1203kWh was obtained. It is very clear that after ring fencing of the secondary distribution transformer was done, the amount billed for this particular account increased by nearly twofold and subsequently reduced the AT & C for the account by nearly half.

4.6.2. Consumption profile of a good consumer:

From the consumption records, there are two categories of consumers of power; those whose consumption units fluctuated during the three cycles before ring fencing but became consistent and increased after ring fencing. Likewise there were those whose consumption remained consistent both before and after ring fencing periods. Figure 4.4 represent a consumer whose consumption remained relatively consistent before and after ring fencing of the secondary distribution transformers in the project area. Before ring

fencing, the consumption was 51kWh, 52kWh and 56kWh for the 1st, 2nd and 3rd billing cycles bringing to the average of 53kWh for each cycle.

After ring fencing of the secondary distribution, the consumption for the subsequent 1st, 2nd and 3rd billing cycles was 56kWh, 59kWh and 52kWh respectively. The average consumption was 57kWh for each billing cycle.

4.7. Load Flow Analysis for the Kapsoya 11kV Distribution Feeder

From the simulations done on the Industrial Distribution network that the real power supplied to Kapsoya 11kV feeder was 3143kW while the reactive power was 1292kVAR. For KCC 11kV feeder the real power supplied to it was 408kW and reactive power was 288kVAR. Finally, the real power injected to Eldowas 11kV feeder was 76kW while 2kVAR was the reactive power.

4.8. Technical Losses on the feeder line

From Table 4.3, it was established that the total technical losses of the Kapsoya feeder was 218.685kW which 7.23% and compares well with the range that was discussed in Figure 2.5 of chapter two of this report.

Furthermore, it was deduced that 192.086kW translating to 87.4% of the total technical losses occurred on the distribution line, whereas 26.599kW representing 12.6% occurred because of the resistances of the iron core and copper windings of the transformers.

CHAPTER 5

5.0. Conclusion

The main purpose of an electricity meter is to account for electricity generated, delivered and utilized. Currently, in the distribution network of KPLC, the instance where the electricity is metered is at the points of generation, transmission takeoffs, distribution feeder takeoffs and the points of consumption. The method proposed can be used to minimize the commercial losses incurred along the distribution network by accounting for kWh of electricity. When used alongside the prepaid AMR meters, the utility company will be able to account for electricity in its distribution network.

The method proposed was to develop an AMI system, which could easily be integrated into the existing utility infrastructure and using the commercially available AMR meters. Therefore, by ring fencing the secondary distribution transformers a method for accounting for energy in the distribution network was derived with the view of computing for the AT&C losses on the distribution network. Moreover, the method developed was able to address all the five objective of the study and these objective were achieved as illustrated;

i). Obtain consumption data for a selected group of customers before and after introduction of AMI.

The objective of obtaining data for 878 customers for the two scenarios, the consumption data for three consecutive billing cycles of the data group was extracted from the consumption records in the ICS and Itron systems. For the first three reading cycles before ring fencing, the consumption data for the group of customers for each cycle was summed up. After the AMI had been fully deployed so as to ring fence the distribution transformers, each cycle of the billing was then summed up and recorded.

ii). Determine billing and collection efficiencies

To obtain the billing and collection efficiencies, the summation of the energy that was supplied to and billed in the area under study was computed for the three billing cycles.

The ratio of the billed to supplied energy provided the billing efficiency. Whereas the collection efficiency was determined by summing up the revenue collected for the three billing cycles and then compute the ratio between the collected revenue to the total billed units. These efficiencies were obtained before and after the deployment of the AMI.

iii). Compute aggregated technical and commercial losses

After determining the billing and collection efficiencies, AT&C losses were then computed by obtaining the product of the collection efficiency by billing efficiencies. The summation of this product and AT&C losses would add to 1.

iv). Establish distribution system efficiency

The distribution efficiency was established by computing the product of the collection efficiency and billing efficiencies. The system efficiency was established before and after ring fencing of distribution transformers was carried out.

v). Simulate a load flow for the Kapsoya 11kV feeder

The objective to simulate the load flow for the Kapsoya 11 kV feeder, was achieved by modelling Industrial Substation network using PSAF software. A load flow analysis was then carried on the model. The simulation of the load flow on the Kapsoya 11kV feeder line gave an overview of the energy flow in the feeder and its performance.

The characterization of losses and voltage profiles on the Kapsoya 11kV Distribution feeder by simulating the load flow gave an overview of state and condition of the voltage profiles of both the High Voltage and Low Voltage feeders of the network.

Testing the method with real data showed that the proposed method could be used with current technology in the appropriate installations. Applicability of the method depends largely on the accuracy of Billing and Collection efficiencies. The method worked well when the setup was properly configured. Therefore, the objectives of the study that had been stated in Section 1.5 have been met.

Recommendation

The results were primarily obtained from meter readings of energy consumption at various points of the distribution network. The data were recordings of events that had already happened.

Therefore, the conclusions that were deduced were historical in nature. It would be prudent to incorporate some features of the network so that the usability and functionality of the whole set up could be used to forecast the status and operations management of the network.

Of particular interest, is to use the system to manage the operations of the network. For example, the real time monitoring of the status of the network by relaying the status parameters like voltage, current, power factor and eventually the load flow at various points of the network.

For all these to be feasible, the following steps are recommended to be done.

5.1.1. Procurement of smart meters

Currently, the meters that have been installed both at the point of consumptions and the secondary distribution transformers are automatic meters but they are not smart meters. The functionalities of these meters would have been modified to include real time monitoring of the performance of the distribution network. This can only be achieved if there was a two way communication channel between the metering device and the Network Operation Centre (NOC).

It would therefore be prudent to procure meters which are smart so that the AMI functionalities can be incorporated.

5.1.2. Interfacing of the various electrical network elements

Distribution Automation (DA) necessitates that there is real time monitoring and control of distribution level circuits. In order to achieve this, a distribution circuit state estimator tool which can provide real time load flow estimates of the system is required. Since there is limitations on the availability of real time measurements on distribution networks, load modelling technique is used to provide real time estimates of the customer load demands. The efficiency of the distribution network will be greatly improved if the automatic

switches along the distribution network are introduced. Therefore, interfacing of these elements is very critical in achievement of DA. Currently at the distribution level, the various elements are not communicating with one another at all apart from the physical electrical connection. Therefore, the DA is highly inhibited.

5.1.3. Integration and adaption of GIS

In the recent years, KPLC has been collecting data of its equipment and installations. This facility database, FDB is the Geographical Information System (GIS) for the utility company. The system provides very detailed location and conditions of the facilities in the distribution network. The company should roll out the GIS and AMI systems with the view of laying the foundation of a smart grid. The two systems are the corner stones of the smart grid.

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Appendix A: Consumption Data for the study period

							၂ၓ	nsum	Consumption Data	Data							
						Consumpti		on Before Ring Fencing	encing			Consump	Consumption After Ring Fencing	r Ring Fe	ncing		
					1st Cycle	/cle	2nd Cycle	cle	3rd Cycle	cle	1st Cycle	cle	2nd Cyde	de	3rd Cyde	de	
L ON	ON XL	SRN	Customer Name	Meter No	kwh	Ksh	kWh	Ksh	kWh	Ksh	kWh	Ksh	kWh	Ksh	kwh	Ksh	location
		711123	711123 JOSEPH KIPKORIR SAWE	22120426220	59	931	63	801	22	756	87	1218	98	1204	87	1218	1218 PLOT NO 1703/9 KAPSOYA
		711148	711148 ELIJAH MURKOMEN KITUM	01451043952	02	1205	74	1175	72	1102	73	1022	70	086	73	1022	1022 9/986 KAPSOYA
		715708	715708 MUHAMUD ABDULAI ABDI	14141077108	102	1502	150	2165	100	1310	159	2226	150	2100	168	2352	2352 B9/1387 KAPSOYA
		722559	722559 CECILIA W WANYONYI	22119665267	34	552	40	899	34	591	28	392	33	462	38	532	532 PLOT NO 1312
		722568	722568 SALLY JELLAGAT MENGICH	22120469410	68	495	20	683	288	4911	321	4494	306	4284	301	4214	1214 PLT NO. B9/1315 KAPSOYA MAIN HSE
		731375	731375 DANIEL KIPROP CHERONO	22120469428	106	1754	37	485	84	1273	116	1624	119	1666	123	1722 (.722 OFF ELGEYO/BIK9/1390
		733751	733751 SALLY MENGICHI	22120469469	79	788	75	1127	26	726	09	840	9	910	61	854	854 B9 1399 KAPSOYA
		734903	734903 DOUGLAS NYAMWEYA OANYA	01451164790	19	954	82	1542	09	1004	81	1134	80	1120	87	1218	.218 PLOT NO 9/1737
		735756	735756 CAROLINE JEPKORIR KANDIE	22120469550	08	296	40	510	62	862	63	882	28	812	9	910	910 PLT B9/373 KAPSOYA
		2030961	2030961 DOUGLAS NYAMWEYA OANYA	22119671034	34	250	35	622	31	551	30	420	34	476	33	462	462 PLOT 9/281 KAPSOYA
		2036652	2036652 MARY JEBOI CHEBURET	22120469295	86	1577	239	4502	71	1031	247	3458	269	3766	256	3584	3584 PLT 9/1227/KAPSOYA
		2039341	2039341 JOHN CHERUIYOT KIBOSIA	22119665390	75	1069	116	1583	102	1999	116	1624	109	1526	103	1442	1442 9/973 KAPSOYA
		2065179	2065179 GEDION OMUSE EKAPOLON	22120469436	47	575	100	1643	28	339	112	1568	111	1554	89	1246	1246 9/880 KAPSOYA
		2070307	2070307 DAVID KIPCHUMBA BETT	22120469337	40	536	93	1466	23	312	100	1400	68	1246	95	1288	1288 BLK 9/988 KAPSOYA
1	2230	2091366	2091366 MILDRED MUKASIA HUTI	22119665424	65	734	317	5369	20	518	326	4984	340	4760	321	4494	4494 956 KAPSOYA
		2173834	2173834 JOHN KIBET BAROROT	22120469303	39	200	32	444	35	462	39	546	32	448	46	644	644 PLT 9/905 ELGEYO RD
		2207556	2207556 ЈАРНЕТН КІРКЕМВОІ SEREM	22119665341	140	1960	143	2002	131	1834	131	1770	116	1666	168	2578	2578 PLT 9/630 KAPSOYA NEAR MARIAKANI
		2210684	2210684 JAPHETH KIPKEMBOI SEREM	22119665283	180	2520	189	2646	191	2674	176	2508	117	1629	125	1772	1772 PLT BLOCK 9/631 KAPSOYA
		2215756	2215756 MERCELINE AMINDE AWUORI	22120469501	39	546	40	260	48	672	33	532	34	592	39	657 F	PLT BLOCK 9/631 KAPSOYA
		2230191	2230191 JAPHETH KIPKEMBOI SEREM	22119665358	176	2464	156	2184	166	2324	137	1973	139	2070	161	2601 F	PLOT 934 KAPSOYA
		2230192	2230192 ЈАРНЕТН КІРКЕМВОІ SEREM	22119665317	20	280	28	392	25	350	26	367	27	376	28	413	413 PLOT 1596 KAPSOYA
		2230194	2230194 ЈАРНЕТН КІРКЕМВОІ SEREM	22119665275	09	840	69	996	99	924	63	815	45	544	64	816	816 PLOT 9 565 KAPSOYA MARIAKANI
		2230195	2230195 ANDREW WEKESA TABALIA	22119665309	113	1582	109	1526	110	1540	106	1917	114	1904	114	1803	803 PLOT 9/565 KAPSOYA MARIAKANI
		2230197	2230197 SAMUEL MABETA ONKOBA	22119665366	48	672	42	288	45	930	38	493	42	515	47	268	568 PLOT 9/565 KAPSOYA MARIAKANI
		2230200	2230200 IBRAHIM OMUSULA AMBUCHE	22119665259	19	854	27	798	64	968	54	638	44	547	16	291 E	BLK9/578 KAPSOYA
		2292259	2292259 C/O KENGEN PIUS KIPLAGAT KIPK 22120469543	K 22120469543	17	238	14	196	15	210	9	195	13	592	6	220	220 PLT 9/593/6 KAPSOYA
		2297556	2297556 DUNCAN KIPTOO MTAI	22120469329	159	2226	155	2170	150	2100	159	2281	164	2383	140	2211	2211 9/2174 KAPSOYA
		2355411	2355411 MUHAMUD ABDULAI ABDI	14141127317	20	700	53	742	42	288	41	523	48	593	29	426	426 P/N 1619 KAPSOYA
		2360429	2360429 FRIDAH MULWALE SHIROYA	04225859927	198	2772	191	2674	196	2744	137	1963	189	2797	173	2664	2664 HSEBLOCK 91613 KAPSOYA

2	21116		711158 DANIEL KIBIWOT KIPRONO	01451080814	99	1123	82	1322	26	815	69	996	85	1190	02	980 9/986 KAPSOYA
		711166	711166 MILKA TOROITICH LUTTA	01451112658	37	578	43	628	19	338	40	260	44	616	39	546 9/986 KAPSOYA
		711435	711439 RHODAH JEMUGE KOMEN	01451190076	171	3224	202	3928	190	3212	182	2548	200	2800	203	2842 EMC9/1695 KAPSOYA
		711496	711496 THOMAS KIPCHIRCHIR YEGO	01451041923	110	2012	122	2058	127	2085	119	1666	123	1722	132	1848 EMC9/1695 KAPSOYA
		711508	711508 RAYMOND KARANJA NJAGA	01451080772	196	3707	179	3366	162	2794	199	2786	190	2660	183	2562 EMC9/1695 KAPSOYA
		711716	711716 JONATHAN KIPTOO ROTICH	01451035990	65	1506	06	1355	71	1083	86	1372	96	1344	93	1302 1706 KAPSOYA
		711825	711829 ЛОПТН СНЕРКОЕСН	01451043846	23	443	18	320	6	237	99	924	63	882	69	966 9965 KAPSOYA
		712021	712021 STANLEY KIPKERING NGOSOSEY	01451013435	20	1083	20	1101	51	726	92	1064	79	1106	75	1050 PLT 1739 KAPSOYA
		712046	712046 ANDREW KABAGURU	14140710634	80	1415	74	1173	89	1000	98	1204	73	1022	69	966 PLT 1739 KAPSOYA
		712051	712051 DISMAS ODUOR OPONDO	01451043507	41	632	109	1977	82	1322	119	1666	106	1484	111	1554 PLT NO B9/1401 KAPSOYA
		712092	712092 REBECCA JEPKORIR KIPTIM	01451043499	114	2060	29	1034	103	1656	119	1666	110	1540	123	1722 B/9/1370 KAPSOYA
		712232	712232 JAMES KIPROTICH SIGILAI	01451214389	87	1440	101	1870	88	1560	109	1526	116	1624	86	1372 1704 KAPSOYA
		712233	712233 JAMES KIPROTICH SIGILAI	01451214371	99	861	99	1157	69	1183	57	798	19	854	70	980 ISOLATED KAPSOYA
		712234	712234 SAMUEL NJIHIA NGANGA	01451103855	82	1437	102	1686	78	1205	107	1498	100	1400	94	1316 ISOLATED KAPSOYA
		712313	712313 JOSEPH KIMANI NJUGUNA	01451104846	45	200	23	443	29	668	26	784	22	770	25	728 AT KAPSOYA
		712364	712364 HENRY ODONGO GILA	01451218455	20	380	521	11625	500	4277	298	8372	524	7336	532	7448 AT KAPSOYA
		715537	715537 LINET MASAI BUTEKA	01450992191	9/	1234	9/	1361	84	1481	78	1092	9/	1064	75	1050 PLT NO 1372 KAPSOYA
		715639	715639 DISHON OUMA N	22119671141	30	537	12	278	22	386	33	462	39	546	31	434 PLOT NO.1739 KAPSOYA
		715686	715686 DUNCAN M MAINA	01451077414	32	563	31	206	35	536	33	462	32	448	32	448 9/1709 KAPSOYA
		715705	715705 WILLIAM BIWOTT	01451041915	299	4662	170	2854	82	1218	304	4256	300	4200	301	4214 PLOT NO 9/1302 KAPSOYA
		722493	722493 JOHN CHEPSEBA KIPYEGO	01451043523	136	2513	86	1616	176	2961	188	2632	180	2520	186	2604 B9/1387 KAPSOYA
		722497	722497 JAMILA GUYO BORU	01450978018	68	1576	104	1725	83	1298	109	1526	100	1400	113	1582 PLT 89/1387 KAPSOYA
		722498	722498 GIDEON K R SANGUT	01451043895	38	801	42	705	45	734	39	546	40	260	36	504 1726 BLK 9 KAPSOYA
		722499	722499 ANNE WANJALA NAFULA	01451062291	25	470	18	320	56	430	30	420	31	434	38	532 1726 BLK 9 KAPSOYA
		722500	722500 GODFFREY KIPTOO KOSKE	01451065344	43	662	64	1116	38	645	65	910	29	938	73	1022 PLT 9/567 KAPSOYA
		722501	722501 GEOFFEY KIPKOSGEI CHEMAOI	01451065351	51	826	48	602	51	726	55	770	53	742	26	784 PLT 9/567 KAPSOYA
		722502	722502 ARKAO NYAMBU WACHENJE	01451081762	28	362	47	692	28	844	59	826	65	910	28	812 BLOCK 9/1489 KAPSOYA
		722503	722503 TECLA KOSGEI MUTAI	01451081820	34	591	42	616	39	552	36	504	39	546	43	602 BLOCK 9/489 KAPSOYA
		722504	722504 DORCAS JEBOTIP CHOGE	01451081747	39	610	38	199	46	752	46	644	45	089	49	686 PLT B 9/1701 KAPSOYA
		722505	722505 SERAH AWUOR OGASO	01451159626	29	877	77	1360	70	1179	84	1176	93	1302	78	1092 PLT NO B/9/1701 KAPSOYA
		722506	722506 ISAIAH K CHEBII	01451215204	78	1270	131	2479	81	1352	140	1960	134	1876	146	2044 1702 KAPSOYA
		722508	722508 WILLY KIBET SANG	01451062283	99	861	26	923	23	865	29	826	09	840	69	966 PLT 1318 KAPSOYA

722509 JOHN KIPKORIR BUSIENEI	01451077349	48	779	61	936	67	1012	70	980	75	1050	62	868 F	868 PLT NO 1318 KAPSOYA
722510 ELIZABETH MWANJUMA	01451038960	43	530	30	503	36	635	20	200	46	644	49	686 F	686 PLT 1319 / KAPSOYA
722511 MARIA - PCHEMUT	01451077380	27	465	22	440	20	398	25	320	30	420	50	406 E	406 BLOCK 9-1482 KAPSOYA
722514 NAOMI CHEPCHIRCHIR KEBENEI	01451083099	52	286	28	166	40	672	09	840	19	854	29	938	938 BLK 9/1482 KAPSOYA
722515 JOSEPH K GITAU	01451204133	86	1643	153	2927	68	1578	175	2450	179	2506	192	2688	2688 9/1483 KAPSOYA
722516 CHRISTINE JEMUTAI KIBOR	04225860016	182	3216	506	4461	149	2477	500	2926	212	2968	203	2842 F	2842 PLOT 9/1475 KAPSOYA EST
722518 CLEOPHAS KIMUTAI KICHWEN	04225796632	19	390	28	510	50	482	30	420	56	364	19	266 F	266 PLOT 9/1475 KAPSOYA EST
722519 TOMBEN KENYATTA OTIENO	04225792250	94	1571	95	1747	06	1253	100	1400	96	1344	94	1316	1316 PLOT NO B/9/1499
722520 SAMSON KIPKOSKEI ROTICH	01451218521	77	1356	63	1061	7	217	80	1120	81	1134	87	1218 F	1218 PLT NO B/9/1499 KAPSOYA
722521 BEATRICE LUDOVICA ADHIAMBO 01451042822	01451042822	23	455	17	341	20	374	23	322	28	392	34	476 E	476 B/9/1499 KAPSOYA
722522 MARY OGOLA SINDE	01451092306	37	547	44	725	47	269	47	859	23	742	49	989	686 PLOT NO.B/9/1499
722523 JULIA MUTHONI GITAU	01451161358	44	725	26	843	23	742	29	826	64	968	64	968	896 PLOT NO.B/9/1499
722525 MICAH KIPKORIR NGETICH	01451021495	45	739	40	614	44	639	46	644	46	644	51	714	714 PLOT 1371/9 KAPSOYA
722526 PETER IWOUNI MANYURU	01451082018	89	1159	73	1155	100	1598	06	1260	66	1302	95	1330	1330 PLOT 1371/9 KAPSOYA
722527 LEAH JEMAIYO KIPKORE	01451161408	53	523	45	029	84	1316	80	1120	80	1120	82	1190	1190 PLOT 1371/9 KAPSOYA
722531 JAPHETH M MOGAKA	01451093379	45	736	34	531	77	1189	23	742	54	756	89	952	1313 KAPSOYA
722532 DIMSON OMOSA NYAMOKUNYO 01451093338	01451093338	41	929	24	421	44	639	46	644	44	616	48	672 1313	1313
722533 BETTY JELAGAT CHEPWARWA	01451080657	32	564	34	542	30	478	31	434	39	546	36	504 1313	1313
722535 BRYAN KERR NGAYWA	01451120651	31	551	42	637	56	432	41	574	40	260	43	602	602 9/1317 KAPSOYA
HIGHLAND VALUERS LTD	01451157752	19	1024	20	1201	62	953	79	1106	82	1190	89	952	1310/9 KAPSOYA
722538 SUSAN CHEBET BIRECH	01451103863	23	789	31	490	53	440	49	989	46	644	28	812	812 1310/9 KAPSOYA
722539 LILIAN - CHEROBON	01451157786	41	669	49	721	49	869	20	200	51	714	26	784 F	784 PLOT 9/1374 ELGEYO BOARDER
722540 RUTH J. KIMUTAI	01451022253	71	1110	77	1191	77	1130	69	996	29	938	98	1204 E	1204 B9/1376 KAPSOYA
722541 MARIA NAITOTI LEKALKULI	01451190092	51	747	52	744	9	841	29	938	22	798	59	826 F	826 PLOT 1376 KAPSOYA
722543 SAMSON KIPKOECH KIGEN	01451190043	64	1098	62	951	22	296	61	854	64	968	29	938	938 PLT BLOCK 1307/9 KAPSOYA
722546 DANIEL BIWOTT TUWEI	01451041899	91	1635	81	1304	75	774	86	1372	103	1442	06	1260 E	1260 BLOCK 9/971 KAPSOYA
722547 DANIEL BIWOTT TUWEI	01451041881	22	386	17	315	13	273	6	126	13	182	19	266 F	266 PLT KAPSOYA 1307 ELGEYO BOADER
722549 DOROTHY JEPKEMBOI KURGAT	01451156952	38	290	38	220	44	909	45	089	95	784	20	700	700 PLT NO 9/1303 ELGEYO BORDER
722551 HENRY MWAURA WANGARE	01451166399	51	840	24	390	38	268	47	859	29	826	54	756	756 PLOT NO 9/1303
722556 JEPKOECH KUTOL	22119671182	147	2731	166	2867	167	2800	165	2310	142	1988	152	2128	2128 PLOT NO 1312
722558 WILLIAM AMBOYE OBANDA	01451164774	54	834	99	932	61	904	69	996	75	1050	61	854 F	854 PLOT NO 1312
729668 JUDITH CHEPKOECH	14105845912	39	605	28	965	22	022	29	928	69	898	53	CVL	AT KADSOVA ESTATE

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	2038190 KELLAN ASEYO KAYERE		22119671133	27	466	25	421	45	616	49	989	42	288	53	742 9/973 KAPSOYA	⋖
	2040452 STEPHEN N	1ASIN DE	01451190126	353	7075	190	3309	155	2586	397	5558	405	5670	432	6048 PLT 9/953 KAPSOYA	SOYA
	2069213 NANCY CHEPKOECH KENER		01451103434	119	2175	149	2555	83	1298	179	2506	186	2604	189	2646 2675 KAPSOYA	
	2077477 DANIEL ON	DANIEL OMONDI OCHIENG	01451166985	162	2842	165	3170	175	3287	112	1568	180	2520	176	2464 9/2655 KAPSOYA	ΥA
	2080353 EUNICE MC	2080353 EUNICE MORANGI NYAMOKO	01451043861	36	288	54	855	52	692	57	798	52	728	63	882 ELD MUN/BLOCK 9/1015	CK 9/1015
	2085697 ZENNAH JE	ZENNAH JEPKEMBOI KOKS	14141146937	28	1272	22	1377	9	1095	46	1358	94	1316	83	1162 9/969 KAPSOYA	A
	2093925 FAITH JERL	FAITH JERUTO KIPROP	01451209850	22	430	09	917	62	875	99	924	09	840	53	742 9/1696 KAPSOYA	YA
	2097341 SHEM ELUNGAT EMOJONG		01451157802	26	491	34	493	32	451	21	294	24	336	20	280 PLT 979 KAPSOYA	YA
	2110903 JOICE JEPKOSGEI SAWE		01451080764	81	1304	110	1781	109	1680	120	1680	110	1540	111	1554 PLOT 1294 KAPSOYA	SOYA
	2111479 ESTHER WAIRIMU MBUGI		01451043960	113	1924	114	2038	86	1724	115	1610	117	1638	130	1820 P/N B9/1204 KAPSOYA	APSOYA
	2116449 CATHERINI	2116449 CATHERINE SAIDI CHEPKEMOI	14140909723	40	498	44	208	56	391	49	989	41	574	52	728 9/923 KAPSOYA	A
	2118819 JANET AMISI		01451164576	15	314	2	191	6	230	28	392	30	420	23	322 PLT NO KAP/B/	PLT NO KAP/B/9/944 KAPSOYA
	2124986 SUSAN JERUTO CHESEREM		01451049066	35	456	12	281	2	159	40	260	44	616	36	504 PLOT 948/9//B KAPSOYA HSE2	KAPSOYA HSE2
	2132802 ANTHONY MWANGI KINYUA		01451080806	89	1161	09	917	47	673	73	1022	71	994	69	966 961 KAPSOYA	
	2138764 MARY FLORENCE MWETICH		04225785288	33	574	9/	1211	42	616	79	1106	81	1134	89	1246 BLK9/962 KAPSOYA	SOYA
	2149922 PATRICIA NJERI WACHIRA		14140909517	17	316	34	499	39	529	46	644	49	989	49	686 1748 KAPSOYA HSE	A HSE 2
	2159068 ANNAH JELAGAT SUTER		22119829871	22	905	65	973	26	815	69	996	78	1092	09	840 1748 KAPSOYA	
	2162237 LEAH CHEL	LEAH CHELAGAT KOSGEI	01451041857	40	614	62	923	38	541	92	910	29	938	65	910 B 2218 KAPSOYA	YA
	2162977 DUNCAN N	DUNCAN NGATIA THUMBI	14140710717	132	2436	153	2850	142	2426	169	2366	156	2184	173	2422 1705 KAPSOYA	
	2178944 DANIEL MWANGI MBUGUA		14141111527	95	1701	107	1937	123	2072	124	1736	110	1540	117	1638 BLK 9/995 KAPSOYA	SOYA
	2182840 ABDALLA - OMARI	- OMARI	01451080798	39	654	4	661	49	694	40	260	46	644	43	602 B/9/593/3 KAPSOYA	PSOYA
	2185659 ЈИБІТН ОЦ	2185659 JUDITH OLIACHA A. C/O P.O.ODU 01451042806	01451042806	06	1260	81	1134	66	1386	82	1115	81	824	90	1284 PLOT NO 9/1814/006	14/006
	2191304 CHRISTINE JEMUTAI KIBOR	BOR	01451214330	34	476	39	546	38	532	30	376	21	333	19	320 705 KAPSOYA	
	2191305 PHILIP KIPLIMO KIBOR		01451204166	115	1610	117	1638	130	1820	113	1924	114	2038	98	1724 PLOT 9/594 KAPSOYA	PSOYA
	2196893 DIANA CHEPKOECH		01451122780	49	989	41	574	52	728	40	498	4	208	26	391 BLOCK 9/598 KAPSOYA ESTATE	APSOYA ESTATE
	2196895 LIZZA JEPCHUMBA KOECH		14141133984	79	1106	68	1246	98	1204	73	903	9	772	61	819 9/598 KAPSOYA HSE 2	'A HSE 2
	2197951 JAMES ON	JAMES ONYANGO AYIEYO	01451164766	223	3122	236	3304	221	3094	154	2451	205	3460	152	2330 9/598 KAPSOYA HSE 1	'A HSE 1
	2207103 MORGAN	2207103 MORGAN JOHNSTONE OMUSUN 01451159881	01451159881	156	2184	180	2520	179	2506	139	1812	138	2018	159	2482 PLT NO; 3/02 KAPSOYA	APSOYA
	2216955 CLEMENTII	ОЕСН	04225860909	134	1876	127	1778	130	1820	128	1893	129	1949	120	1081 PLT B9/563 KAPSOYA	PSOYA
	2226263 SIMON KIMANI MWANGI		01451049215	77	1078	75	1050	20	086	73	883	48	276	74	982 9/ 2203 KAPSOYA	OYA
	2240371 STANLEY N	STANLEY MUSE SHITOTE	01451158826	81	1134	80	1120	87	1218	61	954	82	1542	09	1004 PLOT B9/1603	
	2254512 GIDEAON I	IO SANGUT	01451043432	86	1372	92	1288	94	1316	94	1423	93	1324	66	1453 9/579 KAPSOYA	YA
	2264233 HENRY JUMA ADEMBA		01451018806	63	882	28	812	65	910	30	296	9	510	62	862 PLT/591 KAPSOYA	OYA
	2275440 LEAH CHEPKOSKEI BIWOTI	PKOSKEI BIWOTT	04225859448	20	00/	23	742	54	756	88	499	52	644	20	632 P/N KAPSAOYA CHURCH	A CHURCH
	2290700 PIUS OSON	/A OBURI	01451167017	8 5	1120	8 3	1120	83	1162	89	716	02	761	80	891 PLT 9/593/6 KAPSOYA	APSOYA
	2291324 LABAN CHEBEI BOWEN		01451158800	101	1414	¥ (1316	91	12/4	18	1362	¥ 8	1408	100	2519 PLI 9/593/6 KAPSUTA	APSOYA
0	2310383 GRACE JEPCHIRCHIR SUGUI	Ī.	01451041873	00 22	24640	22,	2882	¥ [סכ/	ر د د	05/	32	27,40	05 L	4200 0/503 KAPSUTA	A S
CT76 C	2310363 GRACE JEPCHIRCHIR SUGUI	1.	01451157610	130	40TZ	TVO	2300	707	0007	120	6022	717	1349	C C	645 0/503 VARSOTA	# HA
	2310389 GRACE JEP CHIRCHIN 300	- 00	014510041840	t 1.	714	‡ C	747	t 7.	784	22	337	0 0 0	7.48	000	7.48 9/593 KAPSOVA	
	2312509 FINICE IEPTI IM CHELAI		01451077372	12	168	12	168	2 2	224	1 ~	213	3 &	310	13	221 9/593 KAPSOVA	
	2315368 LUCY NYAKINYUA MUTUA		01451041907	320	4480	318	4452	301	4214	329	5497	300	4974	285	4761 9/593 KAPSOYA	A HSE 4
	2323403 GEOFFREY KOSGEI CHEMAOI		& 4 01451120685	198	2772	191	2674	196	2744	189	2646	173	173	2422	2520 593/4B KAPSOYA	YA
	2323418 GEOFFREY KOSGEI CHEMAOI		& 4 01451080715	88	1232	84	1176	88	1232	82	1190	59	826	89	952 9/593/ 4B KAPSOYA HSE	SOYA HSE 5
	2330980 EMILY CHEMUTAI NDIEMA		01451080731	4	26	3	42	7	86	4	171	4	171	3	162 593/4B KAPSOYA SHOP 9	YA SHOP 9
	2337358 CORDRING	111	01451122749	166	2324	149	2086	170	2380	149	2226	143	2181	168	2310 1629 KAPSOYA HSE 2	A HSE 2
	2337677 DR. JOSPH,	٩JO	14103965837	155	2170	143	2002	163	2282	126	1865	152	2475	117	1829 1629 KAPSOYA HSE1	A HSE1
	2346109 WAIRIMU SCHOLAR KAMAU		01451214413	26	784	54	756	29	826	22	740	57	757	44	511 B/9/1640 KAPSOYA	SOYA

OLGANISTICASPRIA 25 1748 194	0 F/	2359460 FANICE JEROP KOMEN	01451159600	21	294	26	364	20	280	30	390	10	229	0 (134	P/N B9/1591 ELGEYO RD	
OLGS00025205 S. B. B. T. S. B. T. M. S. B. T. M. S. B. S	9 JOSEPH TU	TEIK BULLUT	01451091142	82	1148	99 ;	924	0 ;	980	9 ;	754	89 5	978	89	618	i	_
OMESTINGSTAND SS SS AG ASD AG AGD A	/ EZEKIEL K	IPTOO KIPROP	01451024598	126	1/64	117	1638	112	1568	110	15/1	108	1062	101	1369	BLK 9/15/1 KAPSOYA STE & S	
OH4500292050 SS S46 404 510 500 510 500 510 500 510 510 500 510 <th< td=""><td>5 WILSON K</td><td>IPROTICH BARMAO</td><td>01450992597</td><td>54</td><td>756</td><td>23</td><td>742</td><td>23</td><td>742</td><td>51</td><td>499</td><td>30</td><td>421</td><td>40</td><td>537</td><td>PLT B/9 1574 KA PSOYA</td><td></td></th<>	5 WILSON K	IPROTICH BARMAO	01450992597	54	756	23	742	23	742	51	499	30	421	40	537	PLT B/9 1574 KA PSOYA	
01450992666 61 884 51 714 56 784 51 628 53 54 734 56 784 51 628 53 54 78 51 628 53 54 784 78 <td>7 WILSON</td> <td>KIPROTICH BARMAO</td> <td>01451013492</td> <td>33</td> <td>546</td> <td>40</td> <td>260</td> <td>43</td> <td>602</td> <td>46</td> <td>528</td> <td>4</td> <td>510</td> <td>47</td> <td>554 F</td> <td>PLT B/9 1574 KAPSOYA</td> <td>_</td>	7 WILSON	KIPROTICH BARMAO	01451013492	33	546	40	260	43	602	46	528	4	510	47	554 F	PLT B/9 1574 KAPSOYA	_
00450952889 46 64 39 826 55 784 51 624 59 786 51 624 59 786 51 624 59 786 51 624 58 374 1908 770 170 97 1279 <td>0 WILSON</td> <td>KIPROTICH BARMAO</td> <td>01450992605</td> <td>61</td> <td>854</td> <td>51</td> <td>714</td> <td>26</td> <td>784</td> <td>51</td> <td>628</td> <td>65</td> <td>882</td> <td>54</td> <td>736 E</td> <td>B/1576 KAPSOYA M 1</td> <td>_</td>	0 WILSON	KIPROTICH BARMAO	01450992605	61	854	51	714	26	784	51	628	65	882	54	736 E	B/1576 KAPSOYA M 1	_
0.04500596345 132 134.84 137 1918 139 13946 131 1394 131 1394 131 130 436 130 430 130 430 130 430 130 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430	8 DORCA	S CHEMESON MOSONG	01450992589	46	644	29	826	26	784	51	624	59	785	53	742 E	B/1576 KAPSOYA M2	_
OLASIONASSORS 133 133 234 138 244 134 448 134 448 134 448 134 448 134 448 134 448 134 448 134 448 134 448 134 448 134 448 134 448 134 448 134 448 134 448 134 448 134 448 <	1 JOSEPI	H ISEME KUCHIO	01450996945	132	1848	137	1918	139	1946	121	1707	97	1279	124	1809	BLK 9/1563 KAPSOYA	_
OLASILISSONO 79 181 2534 186 2564 198 2502 170 2008 170 200	3 RACH	EL KIYONDI	01450996978	73	1022	20	086	78	1092	72	931	34	449	30	456 F	KAPSOYA HSE 9/1578	_
OLGASILISSORY 79 1106 688 92 61 1004 63 93 95 61 1004 63 93 93 58 63 98 64 1004 <	4 LEO K	IPKIRUI KERICH	01451041725	181	2534	189	2646	193	2702	179	2089	176	2497	156	2426 F	PLT B/9/ 1560 KAPSOYA	_
010451126969 47 658 92 826 54 756 91 92 93	7 DAN	IEL A KORIR KIPKURUI	01451159907	79	1106	82	1190	89	952	61	1024	70	1201	62	953	9/1602 KAPSOYA SQ.1	_
014551122775 38 546 43 662 34 591 616 36 516 36 517 77 1380 78 <td>8 LINA</td> <td>H JEPKEMBOI LAGAT</td> <td>01451166969</td> <td>47</td> <td>658</td> <td>29</td> <td>826</td> <td>54</td> <td>756</td> <td>51</td> <td>840</td> <td>24</td> <td>390</td> <td>38</td> <td>268 E</td> <td>568 B9/1646 KAPSOYA SITE AN SERVICES</td> <td>_</td>	8 LINA	H JEPKEMBOI LAGAT	01451166969	47	658	29	826	54	756	51	840	24	390	38	268 E	568 B9/1646 KAPSOYA SITE AN SERVICES	_
0.0451102255 4.6 6.64 4.6 6.63 6.69 9.6 6.6 9.6 6.0 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.7 9.1 9.1 9.1 9.0	S JOSE	PH NG'ANG'A NJOROGE	01451122756	36	504	39	546	43	602	34	591	42	616	39	552 F	P/N 1665 KAPSOYA	_
0.045511287772 88 1176 93 1302 76 1026 56 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 135 67 137 67 137 0.0455103903 79 1826 60 820 66 886 56 135 67 137 66 137 0.0455115778 61 1826 61 882 60 886 137 66 135 67 137 0.0455115778 62 882 60 66 886 40 66 886 40 66 886 67 136 137 67 137 0.0455115778 63 182 66 886 40 66 886 40 66 886 40 66 886 40 66 886 40 66 886 <t< td=""><td>SOI 6</td><td>EPH NG'ANG'A NJOROGE</td><td>01451092256</td><td>46</td><td>644</td><td>45</td><td>089</td><td>49</td><td>989</td><td>39</td><td>610</td><td>38</td><td>661</td><td>46</td><td>752</td><td>P/N 1665 KAPSOYA</td><td></td></t<>	SOI 6	EPH NG'ANG'A NJOROGE	01451092256	46	644	45	089	49	989	39	610	38	661	46	752	P/N 1665 KAPSOYA	
014551092088 589 680 586 586 586 586 586 586 586 586 586 586 586 586 586 586 586 586 586 587 587 597 102 01455105907 109 1526 102 105 105 105 105 105 105 105 105 105 104 105 104 105 104 105 104 104 105 104 105 104 104 105 104 105 104 105 104 105 104 105 104 105 104 105 104 105 104 105 106 104 106 104 106 104 104 106 104 104 106 104 106 104 106 104 104 106 104 106 104 104 106 104 104 106 104 104	sor c	EPH NG'ANG'A NJOROGE	01451122772	84	1176	66	1302	28	1092	29	877	77	1360	20	1179	P/N 1665 KAPSOYA	_
01455109101 70 980 75 1050 62 886 48 779 61 996 710 710 980 710 1026 1026 1026 1026 1026 1026 1126 102 1126 102 1126 102 1126 102 1126 102 1126 102	39 C	DFFEY KIPKOSGEI CHEMAOI	01451019085	29	826	09	840	69	996	99	861	26	923	53	865	PLOT B/9/1660 KAPSOYA HSE1	_
10451188776 106 1526 102 1428 94 1316 956 1576 96 1353 98 1337 1045118776 63 98 61 864 61 96 96 96 96 96 1353 96 1183 10451157788 63 882 61 884 61 986 64 565 48 61 135 61 91 10451157788 63 882 61 884 61 884 64 866 64 76 76 76 76 76 76	1 GE	OFFEY KIPKOSGEI CHEMAOI	01451019101	70	086	75	1050	62	898	48	779	61	936	29	1012 F	1012 PLOT B/9/1660 KAPSOYA HSE2	
104511587750 57 798 61 88-4 70 980 56 861 66 1157 66 1158 61 1158 61 1158 61 1158 61 1158 61 61 61 61 61 61 61 6	5 EN	MLY NALIANYA	01451158776	109	1526	102	1428	94	1316	86	1576	98	1353	88	1397	ISOLATED KAPSOYA	_
0.1451157778 GS SRS GS SRS GS SRS GS G	8 D	2467518 DANIEL KIBET TOWETT	01451158750	22	798	19	854	20	086	26	861	99	1157	69	1183	1543 KAPSOYA	_
Mathematical Control	7	2479257 ALFRED MURIITHI GATUMU	01451157778	63	882	09	840	64	968	09	790	64	853	29	923 F	P/NO B9/1568 KAPSOYA	
01451092280 776 1064 79 1106 75 1050 70 1015 70 1107 71 70 101451092230 586 1204 102 689 966 966 110 514 1173 68 70<	8 J.	2479258 JAPHETH OKUMU AGUMBA	01451157828	47	658	52	728	49	989	45	292	48	617	35	523 E	ELGEYO/KAPSOYA BLK 9/1535	
RA 01450992217 86 1204 773 1022 669 966 860 1415 74 1173 66 1000 10AIA 221203372366 533 8815 337 6482 338 6534 401 564 401 567 782 780 782 <td>3 S</td> <td>2479633 STEPHEN KINGORI KAGOMBE</td> <td>01451092280</td> <td>26</td> <td>1064</td> <td>79</td> <td>1106</td> <td>75</td> <td>1050</td> <td>70</td> <td>1083</td> <td>70</td> <td>1101</td> <td>51</td> <td>726</td> <td>BLK 9/1537 KAPSOYA</td> <td></td>	3 S	2479633 STEPHEN KINGORI KAGOMBE	01451092280	26	1064	79	1106	75	1050	70	1083	70	1101	51	726	BLK 9/1537 KAPSOYA	
JUAILA 21210372366 533 8915 388 6482 398 6739 579 8106 564 401 5614 411 57534 21210437585 232 3370 196 2880 394 6531 406 5684 401 5614 411 57534 21204040585 132 158 116 1590 199 365 179 2506 181 5534 401 150 ARANI 14104375333 83 1227 86 1211 99 1353 89 1246 884 401 100 150 ARANI 14104375333 83 1227 86 1211 99 1353 126 134 110 150 140 150 140 150 140 150 140 150 140 150 140 150 140 150 140 150 140 150 140 150 140 150 140	9	ETER BARMAO CHIRCHIR	01450992217	98	1204	73	1022	69	996	8	1415	74	1173	89	1000	BLK 9/1537 KAPSOYA	_
21100421855 232 3770 196 2800 394 6531 406 5644 401 5614 4111 5754 ARANI 12100421838 116 1589 116 1594 105 1490 117 1683 120 5614 4111 5754 ARANI 141004375338 136 116 1594 105 120 120 180 118 190 150 ARANI 141004375333 83 1227 86 1211 93 1246 88 1246 89 1246 89 1246 89 1246 89 1246 89 1246 90 130 150 100 130 140 150 140 150 140 150 140 150 140 150 140 150 140 150 140 150 140 150 140 150 140 150 140 150 150 150 150 1	2 F	712142 FREDRICK MUYOMA WANJALA	22120372366	533	8915	387	6482	398	6239	579	8106	260	7840	266	7924	1704 KAPSOYA	
ATANIN 12120372382 116 1589 116 1594 105 1430 117 1638 116 1680 110 1540 ARANIN 22120426105 173 2470 110 1520 19 250 179 2506 181 2534 190 2660 ARANIN 12120480524 33 460 30 407 19 280 124 82 124 86 134 96 134 96 266 36 460 86 131 198 134 136 <t< td=""><td>6</td><td>715549 JOSEPH OKUMU OSELLU</td><td>22120421585</td><td>232</td><td>3770</td><td>196</td><td>2800</td><td>394</td><td>6531</td><td>406</td><td>5684</td><td>401</td><td>5614</td><td>4111</td><td>57554</td><td>1485 KAPSOYA ESTATE HSE 4</td><td>_</td></t<>	6	715549 JOSEPH OKUMU OSELLU	22120421585	232	3770	196	2800	394	6531	406	5684	401	5614	4111	57554	1485 KAPSOYA ESTATE HSE 4	_
AAANII 14104375333 83 1227 86 1211 1520 19 305 179 2506 181 2534 190 2660 AAANII 14104375333 83 1227 86 1211 193 1353 89 1246 82 1148 96 1344 22120480805 121 1707 93 1270 129 129 1353 89 1246 82 1148 96 1344 22120480805 121 1707 93 1270 129 124 1809 132 1848 137 1918 139 1946 22120480805 121 1707 931 34 449 30 456 73 1022 70 980 78 1092 IVAL 22120361238 52 178 46 549 156 2426 181 2534 189 2646 193 2702 ARTOCH 22120351048	α	715658 ACCALEY BIWOTT	22120372382	116	1589	116	1594	105	1430	117	1638	120	1680	110	1540 F	PLOT 1304 KAPSOYA	_
MARANI 14104375333 83 1227 86 1211 93 1353 89 1246 82 1148 96 1344 13404375333 83 1227 86 1211 93 1353 88 1246 82 1348 137 1318 95 1344 13404375333 460 30 407 139 280 123 1322 406 132 1322	6	715679 EVERLYNE CHEPCHUMBA	22120426105	173	2470	110	1520	19	305	179	2506	181	2534	190	2660	1684 KAPSOYA	_
2120480524 33 460 30 407 19 280 22 308 23 322 29 406 21204808055 121 1707 97 1279 124 1809 132 1948 137 1918 1946 IVU 22120480805 121 170 93 176 2449 156 2456 181 2534 189 198 198 196 199	1	715681 REUBEN ILUNDANGA MBARANI	14104375333	83	1227	98	1211	93	1353	68	1246	82	1148	96	1344	9/1709 KAPSOYA	_
21100480805 121 1707 97 1279 124 1809 132 1848 137 1918 139 1946 21100361278 72 931 34 449 30 456 73 1022 70 980 78 1092 IVU 22120361278 78 784 46 249 156 2426 189 66 840 66 864 199 70 IMBA 22120480573 58 784 46 188 3 52 70 69 866 67 98 70 88 20 70 88 70 88 70 88 70 89 66 84 866 67 98 88 70 88 70 88 70 88 70 88 70 89 66 78 966 67 98 70 90 89 89 700 89 80 89 89	6	BARNABAS KORIR	22120480524	33	460	30	407	19	280	22	308	23	322	29	406 E	B 9/1324 KAPSOYA	_
Year	0	MISIA M M	22120480805	121	1707	6	1279	124	1809	132	1848	137	1918	139	1946 F	PLT 39/1325 KAPSOYA	_
Variable	1	722591 JULIUS M KIPTARUS	22120361278	72	931	34	449	30	456	73	1022	70	980	78	1092	PLT 39/1325 KAPSOYA	_
MRA 21120480573 S8 784 46 541 46 396 60 840 64 896 59 826 820 82120372168 S 178 6 188 3 152 7 98 6 840 64 896 59 826 822 8	2	PRAXIDES CAROLINE SIMIYU	22120361484	179	2089	176	2497	156	2426	181	2534	189	2646	193	2702	1287 KAPSOYA	_
MMA 2110372168 5 178 6 188 3 152 77 98 6 84 2 28 28 21 21 21 21 21	3	JONAS KIPRONO METTO	22120480573	28	784	46	541	46	396	09	840	64	968	59	826 F	PLT 39 1325	_
ARTOCH 211203561633 62 759 45 522 24 355 55 770 69 966 67 938 ARTOCH 21120372044 14 258 32 420 14 261 33 462 26 364 29 406 21120361452 127 1800 130 1831 77 1020 143 2022 147 2038 139 464 21120352023 155 2194 111 1536 126 1784 200 2800 292 2926 213 2982 21120352015 15 1165 61 133 2005 205 3788 263 3682 266 3724 487 6818 480 6720 IRA 21120359157 77 972 442 7354 120 1866 6524 487 6818 480 6720 IRA 21120359159 109 1361 133 2005 205 3788 263 3682 266 3724 258 3612 ILA 211203480780 109 257 12 301 55 681 81 1048 135 1890 137 1918 143 2002 IRA 21120480781 65 842 61 760 44 505 66 924 65 910 60 840 IRA 21120480783 11 1400 13 12 301 55 101 140 140 6 840 150 140 140 140 140 140 140 140 140 140 14	5	722596 DAVID KIPKOECH KIPCHUMBA	22120372168	5	178	9	188	3	152	7	86	9	84	2	28 F	PLT 1323 BLK 9 KAPSOYA	_
ARTOCH 22120372044 14 258 32 420 14 261 33 462 26 364 29 406 212120361492 127 1800 130 1831 77 1020 143 2002 147 2058 139 1946 212120359223 155 1279 115 1536 126 178 200 2800 2800 2926 213 2982 212120359207 78 115 1536 110 1536 178 100 178 200 2800 200 2926 213 2982 IRA 22120359199 109 1361 133 2005 205 3788 263 3682 266 3724 480 6720 IRA 22120359199 109 1361 133 2005 205 3788 263 3682 266 3724 280 5720 IRA 22120389019	7	FRANCIS KIPKOSKEI	22120361633	62	759	45	522	24	353	55	770	69	996	67	938	PLT 1323 BLK 9 KAPSOYA	_
2120361492 127 1800 130 1831 77 1020 143 2002 147 2058 139 1946 2120361450 123 1779 215 3983 300 5579 316 4424 312 4568 332 4648 2120355223 155 2194 111 1536 126 1778 200 280 209 2926 213 2922 2120355223 155 116 175 176 178 200 280 209 2026 213 2922 KRA 2120355227 88 1165 60 745 108 1178 109 156 125 115 1750 VENO 2210355129 10 1361 133 2005 205 378 263 366 374 480 671 480 671 480 672 480 672 480 672 480 672 480 472	80	CHRISTINE CHEPKOECH BARTOC.	Н 22120372044	14	258	32	420	14	261	33	462	26	364	29	406 F	PLT 1323 BLK 9 KAPSOYA	_
2120361450 1123 1779 215 3983 300 5579 316 4424 312 4368 332 4648 21203359223 155 2194 111 1536 112 1784 200 2800 209 2926 213 2922 21203359223 155 116 16 178 106 1526 114 1596 213 2922 213 2922 SALA 21203359297 88 1165 60 745 108 1178 109 156 125 129 219 219 210 210 210 202 203 202 210 <td>C</td> <td>PHILIP M GACHUBE</td> <td>22120361492</td> <td>127</td> <td>1800</td> <td>130</td> <td>1831</td> <td>77</td> <td>1020</td> <td>143</td> <td>2002</td> <td>147</td> <td>2058</td> <td>139</td> <td>1946 F</td> <td>PLT 1323 BLK 9 KAPSOYA</td> <td>_</td>	C	PHILIP M GACHUBE	22120361492	127	1800	130	1831	77	1020	143	2002	147	2058	139	1946 F	PLT 1323 BLK 9 KAPSOYA	_
2120359223 155 2194 111 1536 126 1784 200 2800 280 2926 213 2922 2120359207 88 1165 60 745 108 1178 109 1526 114 1596 212 212 1750 SRA 2120359129 77 972 7354 120 1866 466 6524 487 6818 480 6720 NFNO 22120359129 109 1361 1361 136 136 136 136 136 480 6720 487 6818 480 6720 NFNO 22120359129 109 1361 133 2005 205 3788 263 366 3724 480 6720 360 3724 480 6720 480 6720 480 6720 480 6720 480 6720 480 6720 480 6720 480 6720 480 6720 480 <td>1</td> <td>MILKA J SIRMA</td> <td>22120361450</td> <td>123</td> <td>1779</td> <td>215</td> <td>3983</td> <td>300</td> <td>5579</td> <td>316</td> <td>4424</td> <td>312</td> <td>4368</td> <td>332</td> <td>4648 F</td> <td>PLT 9/1215 KAPSOYA</td> <td>_</td>	1	MILKA J SIRMA	22120361450	123	1779	215	3983	300	5579	316	4424	312	4368	332	4648 F	PLT 9/1215 KAPSOYA	_
2120359207 88 1165 60 745 108 1178 109 1526 114 1596 125 1750 RAA 22120359157 77 972 442 7354 120 1866 466 6524 487 6818 480 6720 VENO 22120359157 77 972 442 7354 120 1866 466 6524 487 6818 480 6720 VENO 22120357127 123 1693 57 681 81 1048 135 1890 137 1918 143 2002 AA 22120480821 65 842 66 924 65 910 60 840 670 80	3	ISMAIL K SORGOR	22120359223	155	2194	111	1536	126	1784	200	2800	500	2926	213	2982 F	PLT 9/1215 KAPSOYA/NEAR BAPTIST CHURCH	
STACOSSOSIST FRANCE PROPER FRANCE PROPER PROP	1 6	SMAIL K SOROGR	22120359207	88	1165	09	745	108	1178	109	1526	114	1596	125	1750 E	BLK 9/2698 KAPSOYA	_
IRA 212120359199 109 1361 133 2005 205 3788 263 3682 266 3724 258 3612 VENO 221203372127 123 1693 57 681 81 1048 135 1890 137 1918 143 2002 NA 22120480821 65 842 61 760 44 505 66 924 65 910 60 840 IO 22120480763 10 257 12 301 5 201 10 140 6 84 9 126 SAIA 22120480763 12 453 23 23 201 10 140 6 84 9 126 SAIA 22120480763 13 453 23 23 201 10 140 6 84 9 126 SEN 22120480763 13 453 23 13 141 149	1 E	RNEST KEMBOI SITIENEI	22120359157	77	972	442	7354	120	1866	466	6524	487	6818	480	6720	PLT 9/967 KAPSOYA	_
VENO 22120372127 123 1693 57 681 81 1048 135 1890 137 1918 143 2002 TA 22120480821 65 842 61 760 44 505 66 924 65 910 60 840 TA 22120480783 10 257 12 301 5 201 10 140 6 84 9 126 EBOI 22120480789 32 453 23 23 36 50 6 84 9 126 84 9 126 84 9 126 84 9 126 84 9 126 84 9 126 84 9 126 84 9 126 84 9 126 84 9 126 84 9 126 84 9 126 126 126 126 126 126 126 126 126	8 L	EONARD OUMA WANDERA	22120359199	109	1361	133	2005	205	3788	263	3682	266	3724	258	3612	PLOT B9-1208 KAPSOYA.	_
AA 22120480821 65 842 61 760 44 505 66 924 65 910 60 840 TO 22120480783 10 257 12 301 5 201 10 140 6 84 9 126 AALA 2120480789 32 453 28 23 927 36 504 30 420 39 546 EBOI 2120480789 32 453 23 32 36 30 420 39 546 30 420 39 546 21004 114 1600 13 222 10 219 114 149 2086 139 136 560	Δ.	ATHERINE JEBET CHEMWENO	22120372127	123	1693	22	681	81	1048	135	1890	137	1918	143	2002	PLT 9/2226 KAPSOYA.	_
TO 22120480763 10 257 12 301 5 201 10 140 6 84 9 126 EBOI 22120480789 32 453 28 389 23 927 36 504 30 420 39 546 EBOI 221204667471 114 1600 13 252 10 219 151 2114 149 2086 139 1946 22120426295 36 456 30 407 31 421 39 546 43 602 40 500 22120426295 166 220 170 114 140 2086 139 1946	2 14	CKSON NDOLI KAYUGIRA	22120480821	65	842	19	760	4	505	99	924	65	910	09	840 F	P/N 1497 KAPSOYA S/Q	_
ZALA 22120480789 32 453 28 23 927 36 504 30 420 39 546 EBOI 22120467471 114 1600 13 252 10 219 151 214 149 2086 139 1946 22120426295 36 456 30 407 31 421 39 546 43 602 40 500 22120426373 156 270 117 1500 05 106 156 2180 167 3200 167 3200	E 6	MOTHY KIPKOSGEI RUTTO	22120480763	10	257	12	301	5	201	10	140	9	84	6	126 F	P/N 1497 KAPSOYA	_
EBOI 22120467471 114 1600 13 252 10 219 151 2114 149 2086 139 1946 2080 2080 2080 2080 2080 2080 2080 208	or 9	SEPH MURUNGA WANZALA	22120480789	32	453	28	389	23	927	36	504	30	420	39	546 F	P/N 1497 KAPSOYA SITE & SER	
22120426295 36 456 30 407 31 421 39 546 43 602 40 560 30 000 156 000 1	2 N/	AOMI CHEPKEMBOI CHEBOI	22120467471	114	1600	13	252	10	219	151	2114	149	2086	139	1946 F	P/N 91/1474 KAPSOYA	
120 150 150 150 150 150 150 150 150 150 160 160 160 160 160 160 160 160	3 SU	SAN JEBICHII KOSGEY	22120426295	36	456	30	407	31	421	39	546	43	602	40	260	9/1414 KAPSOYA	
101 0007 011 4017 001 0021 06 6401 711 6027 001 00177	7 JAN	733367 JANE LUNG'AZO KHANIRI	22120359173	156	2209	112	1549	92	1298	156	2184	170	2380	167	2338	2338 1466 CHEPKOILEL	

INTAL ZIZIZAGGGGGG 299 699 200 699 200 690 200 690 200 690 200 6400 330 6400 330 6400 300 6400 300 6400 300 6400 300 6400 300 6400 300 400 400	733/87	733487 SALINA LAVABEI	22120361351	53	223	79	661	73	705	61	854	89	052	70	980 PLOT 9/1421 KAPSOVA
713999 CORREL I MAYADAN CORREL LANCARDAN CORRELA MAYADAN CORRELA MAYADA CORRELA MAYADA	733657		22120480490	329	5497	300	4974		4761	320	4480		1452	301	3/1420 K
13898 ADMINI-LIPENCHIC HATHOLINE 2120-2122-233 23 23 24 24 25 25 25 25 25 25	733763		22120361476	130	1846	143	2030		1712	153	2142		1974	148	2072 PLT 1398 KAPSOYA
	733894		22120432533	291	4819	246	4075		4795	298	4172		1060	287	4018 1384 KAPSOYA
134306 BLOKE WANNING KENNING TOWARD AND TRANSPECTATION OF A STATEMENT OF THE STATEMEN			22120372309	12	233	127	1764		1161	134	1876		1946	132	1848 1384 KAPSOYA
Tysys (NAME CREEK RENUL STUDIAGNESS) 19, 2016, 1866 1876 1876 1876 1876 1876 1876 1876	734293		22119606691	117	1610	78	1019		1114	120			1792	119	1666 PLT 1395/89 KAPSOYA
Tysisia FONCO, MAIN, NAMEN, MAIN,	734317		22120467455	71	938	20	289	54	099	26			1022	71	994 9/1397 KAPSOYA
7949701 JULIC CHERTER (INIUM JACAN HANAMAN MANA MANA MANA MANA MANA MANA	734345		22120432483	159	2281	164	2383		2211	159			2170	150	2100 9/1397 KAPSOYA
737319 HOLIO CLINESTINION 131 ST 5320 SECTION CLINESTINION 131 SECTION CLINESTINION 132 SECTION CLINESTINION <t< td=""><td>734591</td><td></td><td>22120372176</td><td>1140</td><td>19378</td><td>99</td><td>802</td><td></td><td>2309</td><td>1321</td><td></td><td></td><td>3214</td><td>1260</td><td>17640 9/730 KAPSOYA</td></t<>	734591		22120372176	1140	19378	99	802		2309	1321			3214	1260	17640 9/730 KAPSOYA
775246 EVENT CHENCKY CHOUSE 22120021990 Sig	734791		14105721907	135	1876	134	1856		2557	183			2646	170	2380 PLT 9/1717KAPSOYA
735256 ICCLIA CHERET MENINGICH 18440776010 54 1 11202 55 13 9011 11622 55 1 100 100 100 100 100 100 100 100 10	735194		22120359090	63	781	20	289	59	570	29		69	996	09	840 PLT 9/17141 KAPSOYA
735329 CONTICHE CHEREN WINCH HANDEN AND MATERIAN CONTICHE CHERCATE WINCH NAME OF TAXABBOOK CHERCATE MATUREN OF TAXABBOOK CHE	735246		22120421437	336	2500		11622		9011	289			3064	550	7700 PLOT 1314 KAPSOYA
735299 OVEC TREPOTICH KIND. 015452089675 201 3134 46 46 56 46 56 46 56 46 56 47 57 57 57 57 57 57 57	735328		14140726010	94	1423		1324		1453	86			1288	94	1316 ELGEIYO 9/1715 B ORRDER
735729 MARCINET WITHOUT THUMBI GLASSORSE 101, 1354 156 226 151 4476 151 236 246 45 65 67 72 72 72 72 72 72 72 72 72 72 72 72 72	735329		22120480532	56	391	40	498		208	45			989	48	672 BLK 9/1647 KAPSOYA
735725 AMMINI NAVINI NAVINI 0145107556 46 46 46 46 46 46 46	735750		01451209876	101	1354	156	2205		1476	167			2226	170	2380 PLOT 9/1720 KAPSOYA EST(MAIN)
2031580 JAMINAN WYANINER KANINKENE 21303561358 68 46 68 68 68 68 69	735752		01451075558	49	569	27	373		400	39			089	51	714 PLT B9/373 KAPSOYA
2015520 HAMINA INVAINUENDE LAIDOR CANAIN CANNINGEN CONTRINED 2015520 HAMINA INVAINUENT CANNINGEN	2013810		22120361518	63	815	45	544		816	09			996	99	924 9/1734 KAPSOYA
2025219 IMATHA DENG CANNOLLING MANA 21202972242 31 1259 1259 232 200 288 23 20 288 234 20 288 23 20 288 23 20 288 20 288 20 288 20 288 20 288 20 288 20 288 20 288 20 288 20 20 20 20 20 20 20 20 20 20 20 20 20 <	2015550		22120361252	38	493	42	515		268	48			288	45	630 PLOT B/1700 KAPSOYA (MAIN HSE)
2005119 MANTA DENG GANCHA CENAN SHIGGOOD 2110372283 515 3461 139 1496 139 139 130	2025273		22120372259	94	1259	28	702		4136	201			2954	230	3220 P/N 9/1380 ELGEYO
2005GIG BLACHANO MADE GWAN SHIGOCOD IZIZIO3372287 16 594 40 406 12 23 40 75 37 30 20 31 43 40 406 27 32 31 43 40 406 276 31 40 400 20 30 400 20 30 30 400 20 30 400 20 30 400 20 30 30 400 20 30 400 30 30 400 30 400 30 400 30 400 30 400 30 400 30 400 30 400 30 400 30 400 30 400 400 400 400 400 400 400 400 400 <td>2026113</td> <td>MARTHA DENG GARANG</td> <td>22120372242</td> <td>215</td> <td>3461</td> <td>139</td> <td>1948</td> <td></td> <td>2927</td> <td>220</td> <td></td> <td></td> <td>2940</td> <td>199</td> <td>2786 P/N 9/1380 ELGEYO</td>	2026113	MARTHA DENG GARANG	22120372242	215	3461	139	1948		2927	220			2940	199	2786 P/N 9/1380 ELGEYO
2025174 JACHANO MANDEGNAS INFLOCACO LAZIONEZAS RELIGIORAL STANDARDOR CONTRACTOR CONTRAC	2026168	ZACHAYO MADEGWA SHIGOGOD	22120372267	51	594	40	496		384	54			714	55	770 P/N 1377 KAPSOYA SITE
2029/2095 AIMAN WTON KENDAGONE 212,20364352 78 105 268 2347 290 280	2026174	ZACHAYO MADEGWA SHIGOGOD	22120372283	16	274	27	376		231	25			280	31	434 PLOT 9/1708 KAPSOYA
2031399 AMMINA NAVINIRE LIZUOSGOSOPORE DE CATOR SIGNATORIO MARINA NAVINIRE CALLOMORE CHELIMO 212,035,030 176 376 376 376 376 376 377 378 377 378	2029703		22120361500	78	1105	126	1692		5347	290			3864	286	4004 1282 KAPSOYA
203928 JACKSON KOMEN CHELIMO 2120359009 176 1469 177 180 175 180 254 194 264 191 267 203929 JERIK SOND WOLNDEN ONDICHO 1414117760 144 2198 137 1490 156 194 149 208 203929 JERIK SOND WARD ONDICHO 212048048 144 2198 167 149 156 364 149 208 203929 JERIK WARD KEMU 212048048 21 348 188 40 46 56 39 56 39 56 39 56 39 56 39 56 39 56 39 56 39 56 39 36 <t< td=""><td>2031995</td><td>JE</td><td>22120361625</td><td>26</td><td>367</td><td>27</td><td>376</td><td></td><td>413</td><td>20</td><td></td><td></td><td>392</td><td>25</td><td>350 PLOT NO 1214 KAPSOYA</td></t<>	2031995	JE	22120361625	26	367	27	376		413	20			392	25	350 PLOT NO 1214 KAPSOYA
2023529 PRIS MOKOVINA ONDICHO 341411776	2034398		22120359009	176	2508	117	1629		1772	180			2646	191	2674 1289 KAPSOYA
2037256 EFENNAM KOMLIN KKMUL KMUL	2035952		14141177676	99	929	137	1904		1458	151			2044	149	2086 PLT 9/227/KAPSYA HSE2
2037556 IFREMIAH KOSGEI TANUI 21204804268 24 49 40 467 35 460 467 35 490 467 35 35 2037556 IFREMIAH KOSGEI TANUI 21204804245 214 3513 188 2684 36 35 36 <	2037237		22120442060	144	2198	102	1396		1490	145			1946	154	2156 PLT 9/974 KAPSOYA
2039389 JANCKSON CHENLIVOT KIGENNY 212,03480797 214 3513 1362 954 750 259 364 1362 1362 1362 1362 1362 1362 1362 1362 1362 1363 1362 1363 1362 1363	2037556		22120480458	24	349	40	498		467	35			260	39	546 PLT 9/974 KAPSOYA
2004370 PATRICK KITTELA 212,20361310 1284 195 1362 1457 126 1764 123 1722 130 1820 2004070 PATRICK KITTELA 221,203613107 1248 1248 136 146 176 126 126 122 120 120 125 2004070 PATRICK KITTELA 221,20361367 88 130 136 146 177 1638 109 153 120 120 120 120 120 120 120 120 120 140 120 120 140 120 120 140 140 120 140	2039589		22120480797	214	3513	185	2684		750	259			3514	261	3654 9/1225 KAPSOYA
204075G STEPHEN KIPLIMON NGGSOSEI 21204021577 1248 145 2040 69 884 159 2236 150 2100 161 2254 204303B BENIAMINI CHESIREE CHERINY 221203451567 78 1131 96 1370 106 146 117 1638 100 124 1730 204303B BENIAMINI CHESIRE CHERINY 22103350177 72 923 60 831 59 826 0 820 137 10 140 170 1638 10 140 10 <td>2039730</td> <td></td> <td>22120361310</td> <td>123</td> <td>1584</td> <td>66</td> <td>1362</td> <td></td> <td>1457</td> <td>126</td> <td></td> <td></td> <td>1722</td> <td>130</td> <td>1820 KAPSOYA B9/960 KAPSOYA</td>	2039730		22120361310	123	1584	66	1362		1457	126			1722	130	1820 KAPSOYA B9/960 KAPSOYA
2043038 BENIAMIN CHESEREK CHERUNOT [2120361567] 88 1311 96 1300 106 1466 117 1638 109 1526 124 1736 2043038 GARTELINE CHESTER 2120303891 77 722 293 60 834 59 1347 99 136 140 2043090 CARTELINE CHENIEW 2120372143 22 182 356 24 356 20 280 188 150 140 2043090 BEATRICE WANIRU THOMBE 212043268 22 72 356 101 1339 119 166 122 29 406 2049902 BEATRICE WANIRU THOMBE 212043264 72 613 78 108 76 52 628 78 108 77 108 2049902 BEATRICE WANIRU THOMBE 212043264 52 613 78 108 78 178 108 77 108 2049902 BEATRICE WANIRU THOMBE 212043266	2040750		22120421577	94	1248	145	2040		884	159			2100	161	2254 BLK 9/411 KAPSOYA
2045069 CATERLINE CHESIRE 22120359017 73 995 69 884 98 137 995 1358 100 1300 2045083 WILSON KIPROTICH BARMANO 2213670879 57 722 72 72 923 66 831 59 826 60 840 55 770 20407832 WILSON KIPROTICH BARMANO 22130432582 58 704 53 665 121 156 122 170 406 2049902 BEATRICE WANIBUT THOMBE 22120432688 82 752 61 679 56 618 90 1260 82 100 406 2049904 BEATRICE WANIBUT THOMBE 22120432668 21 613 52 625 78 1020 82 100 400 2049904 BEATRICE WANIBUT THOMBE 22120432668 52 613 52 625 78 102 82 100 400 80 400 102 80 100 <td< td=""><td>2043038</td><td>BENJAMIN CHESEREK CHERUIYOT</td><td>22120361567</td><td>88</td><td>1131</td><td>96</td><td>1300</td><td></td><td>1466</td><td>117</td><td></td><td></td><td>1526</td><td>124</td><td>1736 BLK 9/411 KAPSOYA</td></td<>	2043038	BENJAMIN CHESEREK CHERUIYOT	22120361567	88	1131	96	1300		1466	117			1526	124	1736 BLK 9/411 KAPSOYA
2046329J MILLON KIPROTICH BARMAO 22119670879 57 722 72 923 60 831 59 826 60 840 55 770 20407783 OAVTOR MILLONDIK POLLAGASSER 22120372143 22 182 25 63 10 356 12 10 180 18 10 10 406 10	2045069		22120359017	73	935	69	884		1347	86			1358	100	1400 PLT B9/957 KAPSOYA
2047783 DAVID KIPKOECH KIPCHUMBA 21203373143 22 365 24 356 280 280 18 252 29 406 20497783 DAVID KIPKOECH KIPCHUMBA 2120432582 58 704 56 618 919 1666 122 1708 115 120 406 2049902 BEATRICE WANIIRU THOMBE 2120432603 8 75 605 52 628 78 1022 85 1190 87 1078 2049906 BEATRICE WANIIRU THOMBE 2120432640 52 613 78 1022 78 1092 77 1078 2049904 BEATRICE WANIIRU THOMBE 2120432665 210 3374 195 2836 193 73 1022 78 1078 2049904 BASHIR MARIKO WANAMBUKO 21203432665 50 682 34 161 2479 178 2492 136 274 190 260 205076 SAMUEL OLUOCH ODUOR 2120480474 <t< td=""><td>2046329</td><td></td><td>22119670879</td><td>22</td><td>722</td><td>72</td><td>923</td><td>09</td><td>831</td><td>29</td><td></td><td>09</td><td>840</td><td>52</td><td>770 PLT 9/1693 KAPSOYA</td></t<>	2046329		22119670879	22	722	72	923	09	831	29		09	840	52	770 PLT 9/1693 KAPSOYA
2049902 BEATRICE WANNIRU THOMBE 2120432582 58 704 53 636 101 1393 119 166 122 1708 116 1524 2049902 BEATRICE WANNIRU THOMBE 22120432668 82 752 61 679 56 618 90 1260 85 1190 87 100 2049906 BEATRICE WANIRU THOMBE 22120432640 52 613 76 993 73 1022 78 100 78 100 70 107 70 107 2049901 MARGARET MUTHONI THUMBI 2120432665 210 337 193 281 68 181 281 73 102 78 107 70 107 2050978 BASHIR MARRIK WANINGH 2120480434 85 668 83 668 124 42 59 11 2479 178 40 50 20 20 20 20 20 20 20 20 20	2047783		22120372143	22	182	25	365		356	70			252	29	406 BLK 9/950 KAPSOYA
2049904 BEATRICE WANNIND THOMBE 22120432688 82 752 61 679 56 618 90 1260 85 1190 87 1218 2049906 BEATRICE WANNIND THOMBE 22120432649 52 613 75 605 73 1022 73 1022 73 1020 2049906 BEATRICE WANNIND THOMBE 22120432649 52 613 76 605 73 102 78 1092 77 1078 2049913 MARGARET MUTHONI THUMBI 2212043265 21 337 195 283 68 183 449 161 2479 178 2492 20	2049902		22120432582	28	704	23	636		1393	119			1708	116	1624 9/978 KAPSOYA
20499Db BEATINCE WANNING HUMBE 21204326A 73 935 51 6D5 52 625 78 1092 83 1102 72 1008 204991B MARGARET MUTHONII THUMBI 21204326A 22 613 78 1008 76 93 73 1022 78 1008 204991B MARGARET MUTHONII THUMBI 21204326A 210 3374 195 2836 193 2817 218 302 220 308 131 292 220 308 213 499 161 2479 178 2492 206 308 213 499 161 2479 178 2492 266 308 26 268 188 688 188 688 188 688 188 689 18 689 18 689 18 689 18 689 18 689 18 602 48 672 40 560 2065046 ISTHER WAITHERA KIBUNGI 2212036138 41	2049904		22120432608	82	752	61	679	26	618	96 F			1190	87	1218 P/N 9/1689 SITE&SERVICE
204991 INARGARET MUTHONI THUMBI 22120432640 52 613 78 1008 76 993 73 1022 78 1078 77 1078 204991 INARGARET MUTHONI THUMBI 22120432665 210 3374 195 2836 193 2817 218 1816 392 73 3080 213 2980 205978 BASHIR MARIKO WANAMBUKO 21203480474 86 88 449 161 2479 178 2492 196 2744 190 2660 2054768 SAMUEL OLUOCH ODLUOCH ODLUOC	2049906		22120432624	/3	935	51	605	27	625	8/			1162	/7	1008 BLK 9/1686 KAPSOYA
2049913 IMARCAREL INDITIONI HUMBI 2212043265 210 35/4 195 285 193 281/I 218 305-2 220 308 213 282 205978 BASHIR MARICO WANAMBUKO 212034369 56 682 34 449 161 2479 178 2492 196 274 49 266 2054768 SAMINIC CLUCKH ODLUCK HOURD 21203480474 83 668 128 1816 133 1862 130 180 240 266 20594768 SAMINIC CLUCKH OLUCKH	2049911		22120432640	52	613	78	1008		993	73			1092	77	1078 P/N 1686 KAPSOYA EST
2050978 BASHIK MARIKIO WANAMBUKO 22120361369 56 682 34 449 161 2479 178 2492 196 2/74 190 2600 2050946 SANUEL OLLOCH ODUOR 2120480474 83 668 83 668 128 138 1862 130 143 200 2060944 CAROLINE JEMELI AYABEI 2120369336 24 50 43 602 48 67 49 500 2062054 ESTHER WAITHER A KIBUNGI 2120369318 190 2448 102 1294 42 599 200 2800 211 2954 191 267 2065024 JAMES KIBET NYOLEI 2120467570 68 853 60 735 64 823 60 840 65 910 65 910 65 910 65 910 65 910 65 910 65 910 65 910 65 910 65 910 65 910 65 910 65 910	2049913	T	22120432665	210	33/4	195	7836		7187	218			2080	213	2982 P/N9/966 ELGEYO BORDER
2054768 SAMULIC OLLOCH ODUOR 2120480474 83 668 83 668 128 138 1862 139 1820 143 2020 206594 GAROLINE JEMELI AYABEI 22120361336 32 420 42 509 11 222 43 602 48 672 40 560 206594 ESTHER WAITHERA KIBUNGI 22120363181 190 244 102 1294 42 593 500 200 211 267 90 200 201 267 101 2674 101 2674 101 267 200 200 201 200 201 200 201 200 201 200 201 <t< td=""><td>2050978</td><td>T</td><td>22120361369</td><td>95</td><td>189</td><td>34</td><td>449</td><td></td><td>2479</td><td>1/8</td><td></td><td></td><td>2/44</td><td>130</td><td></td></t<>	2050978	T	22120361369	95	189	34	449		2479	1/8			2/44	130	
2060944 CAROLINE EMELI AYABEI 2120361336 32 420 42 509 11 222 43 602 48 672 40 560 2062054 ESTHER WAITHERA KIBUNGI 22120363181 190 2448 102 1294 42 593 200 2800 211 2954 191 2674 2065024 JAMES KIBET NYOLEI 21120480839 41 573 64 823 60 840 65 910 65 910 2065024 JAMES KIBET NYOLEI 21120480839 41 573 34 476 46 644 48 673 9217 2070988 PHILIP KWAMBAI S/N 5075 21210480516 255 3385 99 1365 526 9320 599 8386 609 824 48 671 9217 2071258 SAMIMY KIPK DECH ROTICH 2120480748 116 1630 103 1576 50 612 107 1498 126 1764 49 644 644 649 68	2054768		22120480474	88	899	83	899		1816	133			1820	143	2002 P/N 1685 KAPSOYA EST
2062054 ESTHER WAITHERA KIBUNGI 2120359381 190 2448 102 1294 42 593 200 2800 211 2954 191 2674 2065924 JAMES KIBET NYOLEI 2120467570 68 853 60 735 64 823 60 840 65 910 65 910 2065024 JAMES KIBET NYOLEI 2120480839 41 573 32 449 14 276 34 476 46 644 48 67 9217 2070988 PHILIP KWAMBAI S/N 5075 2120480516 255 3385 99 1365 52 612 97 476 46 67 841 2071258 SAMMY KIPK DECH ROTICH 212120480748 116 1630 103 1576 59 612 107 1498 126 1764 41 644 644 644 644 644 644 644 644 644 644 644 644 644 644 641 644 648 </td <td>2060944</td> <td></td> <td>22120361336</td> <td>32</td> <td>420</td> <td>42</td> <td>509</td> <td>11</td> <td>222</td> <td>43</td> <td>602</td> <td></td> <td>672</td> <td>40</td> <td>560 PLT 1290/9 KAPSOYA AFTER PAPTIST CHURCH.</td>	2060944		22120361336	32	420	42	509	11	222	43	602		672	40	560 PLT 1290/9 KAPSOYA AFTER PAPTIST CHURCH.
2065924 JAMES KIBET NYOLEI 22120467570 68 853 60 735 64 823 60 840 65 910 65 910 2066014 WILFRED KIPAGAT MENGICH 22120480839 41 573 32 449 14 276 34 476 46 644 48 67 9217 2070988 PHILIP KWAMBAI S/N 5075 22120480516 255 3385 99 1365 526 9320 599 8386 609 8526 601 8414 2071258 SAMIMY KIPK DECH ROTICH 22120480748 116 1630 103 1576 50 612 107 1498 126 1764 118 1652 2073460 ROSE JEPKEMOI KIPSOI 04225852021 51 583 45 58 45 58 49 58 49 686 46 644 644 644 649 686 46 644 644 649 686 46 644 644 649 648 644<	2062054		22120359181	190	2448	102	1294	42	293	200	2800		2954	191	
2066014 WILFRED KIPAGAT MENGICH 2120480839 41 573 32 449 14 276 34 476 46 644 48 672 570 588 PHILIP KWAMBAI S/N 5075 2120480734 116 1630 103 1576 50 612 107 1498 126 630 83 64 680 841 155 105 103 1576 80 612 107 1498 126 116 1650 103 1576 60 612 107 1498 126 116 1650 103 1576 60 612 107 1498 126 118 1652 105 105 105 105 105 105 105 105 105 105	2065924		22120467570	89	853	9	735	64	823	9	840	65	910	65	910 BLK 9/1181 KAPSOYA
9217 2070988 PHILIP KWAMBAI S/N 5075 22120480516 255 3385 99 1365 526 9320 599 8386 609 8526 601 8414 2071258 SAMIMY KIPKOECH ROTICH 22120480748 116 1630 103 1576 50 612 107 1498 126 1764 118 1652 2073460 ROSE JEPKEMOI KIPSOI 04225852021 51 583 45 544 49 583 45 630 49 686 46 644	2066014	프	22120480839	41	573	32	449		276	34	476		644	48	2202
22120480748 116 1630 103 1576 50 612 107 1498 126 1764 118 1652 04225852021 51 583 45 583 45 630 49 686 46 644			22120480516	255	3385	66	1365		9320	299	8386		3526	601	
042225852021 51 583 45 544 49 583 45 630 49 686 46 644	2071258		22120480748	116	1630	103	1576	20	612	107	1498		1764	118	1652 B9/1761/KAPSOYA ESTATE
	2073460		04225852021	51	583	45	544	49	583	45	630	49	989	46	644 B9/1761/KAPSOYA ESTATE

		20/369/ NIMOLAI CHENDITOL NOLLOIM	7757/507177	3													
	2082113	2082113 MARGARET LUSIMBA MAALUMU	22120361344	106	1433	106	1433	110	1670	101	1414	132	1848	121	1694 E	1694 ELD MUN/BLOCK 9/1015	
	2089850	2089850 ELMADA AUMA ODENY	22120359033	11	243	6	223	∞	212	15	210	11	154	11	154 P	154 PLOT NO 9/951 KAPSOYA	
	2090580	2090580 LAWRENCE OMAI MUKU	22120372119	137	1916	93	1248	104	1441	139	1946	150	2100	154	2156 9.	2156 956 KAPSOYA	
	2096365	2096365 BEATRICE HOKAH OSABWA	22120372333	112	1531	75	897	128	1819	130	1820	130	1820	135	1890 P	1890 PLOT 9/1697 KAPSOYA	
	2115889	2115889 ENOCK WANEKEYA OPUKA	22120421593	147	2247	120	1869	198	3030	199	2786	208	2912	212	2968 P	2968 PLOT 9/983 KAPSOYA	
	2115891	ENOCK WANEKEYA OPUKA	22120421619	09	1427	20	1179	47	1221	9	910	61	854	63	882 P	PLT 9/983 KAPSOYA	
	2116102	2116102 WILLIAM LUAL RING	22120421320	16	291	54	889	44	547	09	840	09	840	69	6 996	966 9/923 KAPSOYA	
	2118643	2118643 ELMADA AUMA ODENY	22120359058	374	6175	270	4885	566	4429	398	5572	403	5642	416	5824 P	5824 PLT 968 KAPSOYA	
	2134619	2134619 JOSEPH KIPCHIRCHIR BOINETT	22120372408	85	1581	45	616	70	1010	96	1260	68	1246	86	1372 P	PLT 9/992 KAPSOYA/HSE	
	2138649	2138649 ALLAN LENNOX OPIJAH	22120421395	250	3921	150	2078	100	1462	251	3514	249	3486	263	3682 B	3682 BLK/962 KAPSOYA	
	2144202		22120421338	97	1203	98	926	57	787	100	1400	93	1302	113	1582 P,	P/N 9/989 KAPSOYA SITE	
	2144203		22120421353	4	940	28	644	38	823	51	714	42	288	26	784 P	784 PLT 9/989 KAPSOYA	
	2147073	TIKE	22120442185	108	1224	128	1762	137	1932	149	2086	155	2170	159	2226 1	2226 1748 KAPSOYA HSE 1	
	2151224	IIENG	22120372424	247	4011	150	2139	152	3172	251	3514	262	3668	259	3626		28
	2154780	2154780 IMMACULATE SEIN MUNERIA	22119606824	135	1923	119	1660	131	1866	148	2072	150	2100	150	2100 P	2100 PLT 8/1745 KAPSOYA	
	2162886		22120480607	27	371	39	491	24	385	45	089	4	616	46	644 1705	1705	
	2162979	M	22119606592	20	615	41	283	29	402	51	714	20	700	20	700 1705	1705	
	2164624	2164624 ROBERT KIBET CHESEREK	22120426386	500	3354	129	1813	162	2347	261	3654	259	3626	251	3514 1705	1705	
	2175433	2175433 FULL GOSPEL CHURCHES OF KEN 22120421379	22120421379	45	945	98	1695	73	1472	88	1246	90	1260	82	1148 1.	1148 1278 KAPSOYA	
	2177051		14105827233	99	921	383	9869	517	8641	339	5586	401	5614	403	5642 1.	5642 1278 KAPSOYA	
	2180490		22120372291	69	853	26	629	39	495	69	996	20	980	65	910 P	910 P/N 9/561 KAPSOYA	
	2182036	5	22120372358	77	1098	65	802	72	931	68	1246	70	980	73	1022 B	1022 B/9/593 /3 KAPSOYA	
	2193872		22120372069	88	1232	82	1190	88	1246	29	844	81	1102	78	1094 9,	1094 9/598 KAPSOYA	
	2193873	2193873 TONNY AMBEHI AMALEMBA	22120372085	65	910	61	854	63	882	9	1427	20	1179	47	1221 9,	1221 9/598 KAPSOYA SHOP 2	
	2202521	2202521 SIMON NDIRITU KANYATTA	22120359025	139	1946	150	2100	154	2156	137	1916	93	1248	104	1441 A	1441 AT KAPSOYA	
9 21333			22120432558	43	602	29	826	51	714	14	261	34	425	47	582 9,	582 9/636 KAPSOYA	
	2205132	ΑQ	22120432574	43	602	41	574	49	989	36	390	62	741	58	740 P	740 PLOT 636 KAPSOYA	
	2221255	ט	04225792243	150	2100	151	2114	145	2030	116	1982	143	2646	101	1818 E.	1818 ELGEYO ROAD KAPSOYA PLOT 9/628	
	2226704		14140917361	30	420	34	476	33	462	34	550	35	622	31	5519	9/2203 KAPSOYA	
	2226740	RE	22120467448	125	1750	130	1820	128	1792	130	3146	134	3018	133	2895 P	2895 PLOT 934 KAPSOYA	
	2231500		22120432699	79	1106	75	1050	87	1218	82	1171	80	981	85	1170 B	1170 BLK 9/578 KAPSOYA	
	2246633		14105721915	70	980	99	924	70	980	69	846	70	916	79	1112 K	1112 KAPSOYA B 586	
	2247175	2247175 ZIPPORAH WANJIRU NJEHIA	22120416023	29	938	69	996	9	840	63	781	20	589	59	570 B	570 B9/583 KAPSOYA	
	2254517	2254517 MEDICAL MISSIONARIES OF MAF 14140005266	14140005266	45	630	49	989	48	672	56	391	40	498	44	508 P	508 P/N 9/582 ELGEYO BORDER RD	
	2256694	MULI	22120361575	139	1946	132	1848	150	2100	128	1771	132	2047	147	2439 K	2439 KAPSOYA SITE &SERVICE B9/590	
	2257508		22120421452	20	200	53	742	62	898	99	807	61	824	40	518 1	518 1615 KAPSOYA	
	2261913	2261913 MARGARET JESANG KOECH	22120426303	82	1148	68	1246	80	1120	29	882	79	1072	98	1236 9,	1236 9/1616 KAPSOYA	
	2266114	WACHIRA	22120432749	53	742	20	700	28	812	52	675	46	528	45	559 P	559 PLT/591 KAPSOYA	
	2270952	2270952 MIKE GITAHI KIHATO	22120359132	47	658	41	574	4	616	40	989	48	208	43	628 P	628 PLT/591 KAPSOYA	
	2273363	2273363 JOHN CHERUIYOT KIBOSIA	22120467372	9	840	29	826	55	770	44	200	26	737	0	134 P,	P/N 9/621 ELGEYO BORDER	
	2279871	2279871 PETER GACHERU NGIGE	22120480722	151	2114	145	2030	156	2184	153	2672	155	2067	115	2095 P	2095 PLT B 9/593/COMM/7 KAPSOYA/SHOP	
	2281569	2281569 ISAAC NDEDE	22120361435	189	2646	189	2646	190	2660	175	2811	185	2819	185	2876 P	2876 PLT 9/593 COMM/7 KAPSOYA	
	2297044	2297044 SHADRACK KIPLAGAT KOSKEI	14107596232	76	1064	73	1022	71	994	71	938	20	589	54	660 9	660 9/2174 KAPSOYA	
	2310486	2310486 STELLA CHELIMO KIMEI	22120467489	252	3528	256	3584	240	3360	245	5210	235	4606	234	4452 9,	9/2174 KAPSOYA	
	2310577	JUKI	22120467505	51	714	52	728	26	784	26	208	29	786	52	724 9,	9/593 KAPSOYA	
	2310578	2310578 NAOMI NKATHA NKONGE	22120467521	179	2506	170	2380	161	2254	165	2450	177	2728	177	2728 9,	9/593 KAPSOYA	
	2332694	H	22120359140	80	1120	8	1216	00	1222	6	1100	10	,00,	Ĺ		0 0000000000000000000000000000000000000	
						}	1240	8	7671	ТО	7077	8/	1094	59	844 5	844 593/4B SHUP B	Ī

	2334411	2334411 ROSE JEPKEMOI KIPSOI	22120426204	99	924	63	882	69	996	64	836		835 60		865 BLK 9/707 KAPSOYA
	2347158	2347158 MICHAEL CHEBURET CHESEREM	04220779179	70	086	70	086	71	994	65	786	64 8	882 59		785 B-9- 1622 KAPSOYA
	2349640	2349640 STANLEY KIPKEMOI KIPTOO	14103988508	39	546	40	260	43	602	46	528				554 BLK 9_1641 KAPSOYA STER
	2368851	2368851 ROIDA AFANDI ASAMBU	22120467356	10	140	9	84	6	126	10	257		301	5 20	201 1610 KAPSOYA
	2376957	2376957 GRACE INGAHIZA SUBA	22120432715	129	1806	137	1918		1988	83	1130	124 18	1		1783 PLT NO B/9/1587
	2377487	2377487 JANE MUTHONI	22120467299	80	1120	88	1246	88	1232	81	1102				844 B 9/1609 KAPSOYA
	2381344	2381344 PETER KEMBOI	22120467547	87	1218	83	1162		1316		1214		1344 83	3 1267	67 PLT 1572 KAPSOYA
	2381346	2381346 MARIAM NYAKANGO	22119670986	129	1806	134	1876		1638		1888	119 11	1116 55		672 9/1597 KAPSOYA
	2381348	2381348 MMBONE SOLANCE ANGEL	22120467588	166	2324	149	2086				2226		1		2310 B9/1606 KAPSOYA
	2385286	2385286 GIBSON KIPKOSGEI KEMBOI	22120480706	91	1274	86	1372		1540		1384		1461 96		1241 P/N B/1569 KAPSOYA
	2396185	2396185 GEORGE ALEX MUKUNYA	22120421536	70	086	70	086	71	994	65	786				785 PLT B/9 1574 KAPSOYA
	2405959	2405959 CRISPUS KAIRA REBUAHI	22120421460	09	840	64	968	29	826	28	784		541 4		396 PLT.B9/1589 KAPSOYA
	2405963	2405963 ROSE CHEMUTAI BARCHOK	22120421486	7	86	9	84	2	28	2	178		188		152 PLT B9/1589 MAIN HSE.
	2405964	2405964 LILIAN ATIENO OKECH	22120421502	22	770	69	996	29	886	62	759		522		353 ISOLATED KAPSOYA
	2405965	2405965 PURITY MORAA KIRERA	01451031726	33	462	56	364	29		14			420 14		261 980 KAPSOYA
	2406065	2406065 LEONARD LEONARD NGEIWO	22120421544	143	2002	147	2058		1946		1800		1831 7		1020 980 KAPSOYA
	2414382	2414382 JOYCE NJERI KUBUKUBU	22120432673	41	574	40	260	43	602	31	551		637 2		432 9/1602 KAPSOYA HSE 2
	2417814	2417814 ROSE NYAWIRA GITHAIGA	22120421510	69	996	29	938		1204		1110		1191		1130 PLOT NO.9/1645 KAPSOYA
	2418871	2418871 RICHARD WANYONYI WESONGA	22120415801	29	938	22	798			51	747		744 6		841 PLOT NO 9/1645 KAPSOYA
	2418873	2418873 JANE NJERI KAMAU	22120415827	61	854	64	968				1098		951 5		796 PLOT NO 1644 SITE AND SERVICE.
	2418876	2418876 PATRICK MUTHEE MACHARIA	22120415843	86	1372	103	1442	Į			1635		1304 7		774 PLOT NO. 1644
	2418878	2418878 NELLY AGUFANA HOYT	22120415983	6	126	13	182			22			315 13		273 P/N 9/1648 KAPSOYA
	2418879	2418879 CLEMENT NYAATA OBIRI	22120416007	45	630	26	784			38					606 P/O 9/1648 KAPSOYA
	2422308	2422308 ENOCK WANEKEYA OPUKA	22120432525	86	1372	105	1470								1538 B9/1646 KAPSOYA SITE AN SERVICES
	2422309	2422309 ENOCK WANEKEYA OPUKA	22120432541	165	2310	142	1988				2731	, ,			2800 B 9/1646 KAPSOYA SITE AN SERVICE
10 22337		2432069 KIBET - KIPTUM	22120361534	55	770	53	742	26		51		48 7	709 51		726 9/1634 KAPSOYA
	2432073	2432073 KIBET - KIPTUM	22120361559	29	826	92	910		812						844 P/N 9 1665 KAPSOUYA
	2434289	2434289 GEOFREY KIBITOK A LETING	04225847708	140	1960	134	1876		2044				2479 81	1	1352 PLT 9/1659 KAPSAYA
	2436407	2436407 CHRISTINE ANGOLO AMANYA	22120372051	20	700	46	644		989	43	530				635 PLT 9/1655 KAPSOYA
	2440403	2440403 PAULINE JEPKEMBOI TOROITICH { 14105994793	14105994793	175	2450	179	2506								1578 9/1654 KAPSOYA
	2440405	2440405 PAULINE JEPKEMBOI TOROITICH { 22120358969	22120358969	179	2506	181	2534								305 9/1654 KAPSOYA
	2440407	2440407 PAULINE JEPKEMBOI TOROITICH { 22120358985	22120358985	88	1246	82	1148	96		83		86 12	1211 93		1353 PLT 1652 KAPSOYA
	2440408	2440408 PAULINE JEPKEMBOI TOROITICH { 22120358852	22120358852	120	1680	111	1554					Ì			1378 PLOT 1651 KAPSOYA
	2440409	2440409 PAULINE JEPKEMBOI TOROITICH { 22120358878	22120358878	33	462	32	448								536 PLOT 1651 KAPSOYA
	2440410	2440410 PAULINE JEPKEMBOI TOROITICH { 22120358894	22120358894	150	2100	156	2184		2352		1537		2236 91	1337	37 PLT 1650/KAPSOYA
	2440411	2440411 PAULINE JEPKEMBOI TOROITICH { 22120358910	22120358910	112	1568	101	1414		1470	108	1640		1026 101		1411 PLT 1650/KAPSOYA
	2440412	2440412 PAULINE JEPKEMBOI TOROITICH {22120358936	22120358936	69	996	74	1036		1050	29			849 33		426 PLT 1650/KAPSOYA
	2440415	2440415 PAULINE JEPKEMBOI TOROITICH { 22120358951	22120358951	29	938	69	996	9	840	61			720		134 PLT 1650/KAPSOYA
	2442229	2442229 EZRA KIPTOO CHERUIYOT	22120372325	33	462	39	546	31	434	30	537		278 2		386 BLK 9/1553 KAPSOYA EST
	2482202	2482202 GERRY LUVAI INYANGALA	22120480730	119	1666	106	1484		1554	41	632		1977 82		1322 P/N 1534 KAPSOYA
	2483615	2483615 NEHEMIAH NDEREBA WACHIRA	22120432764	120	1680	116	1624	110	1540		1149		1081 120	1801	01 ISOLATED KAPSOYA
	2483616	2483616 NEHEMIAH NDEREBA WACHIRA	14106008734	133	1862	139	1946	143	2002		1981		1898 121		1903 ISOLATED KAPSOYA
	2483617	2483617 NEHEMIAH NDEREBA WACHIRA	22120432806	47	658	45	930	43	602	46	627		587 50		641 ISOLATED KAPSOYA
	2483618	2483618 NEHEMIAH NDEREBA WACHIRA	22120432822	119	1666	110	1540		1722		2060	67 10	1034 103		1656 PLOT 9/1517 KAPSOYA
	711307	711307 BENJAMIN KIPRONO CHEMOIYAI	14140568487	168	2697	107	1647	47	265		2884		2786 201		2814 AT KAPSOYA
	712058	712058 GRACE KIPLAGAT KIPROTICH	14141122375	78	1149	78	1081		1801	120	1680	116 16	1624 110		1540 PLT NO B9/1401 ELGEYO BORDER RD
	712090	712090 ЈОЕL КІРКЕМОІ КОЕСН	14140576134	46	627	46	287	20	641	47	829		630 43		602 B/9/1370 KAPSOYA
	722534	722534 JENIFFER JEPKORIR TOMNO	01451080699	78	1321	79	1259		1561	66	1386	94 13	1316 104		1456 9/1317 KAPSOYA
	722554	722554 CLIUS WATAKO	22119671216	62	1044	62	1043		1538		1372		1470 8		1246 PLOT 9/1303 KAPSOVA

	7772207	722302 JOSEF IT NOTIVO INGLINISET DAINNO	100000111												
	722564	722564 JOSEPH NYONGESA NYAROTSO	14140568263	110	1692	180	2738	143	2181	241	3374	224	3136	232	3248 P/NO 1312 KAPSOYA
	722565	722565 SAMUEL SAMOEI MENGICH	14140568271	122	1879	125	1816	91	1320	141	1974	127	1778	134	1876 P/N 9/1300 KAPSOYA
	72256£	722566 REUBEN IRERI ROTICH	14140570079	7	209	16	291	8	215	5	20	13	182	8	112 P/N 9/1300 KAPSOYA
	722567	722567 REUBEN IRERI ROTICH	14140570053	84	1249	164	2476	69	953	180	2520	198	2772	188	2632 PLT NO B9/1315 KAPSOYA.
	72257	722570 JOSEPH K KEMEI	14141190232	8	208	6	201	28	409	24	336	12	168	17	238 PLT B9/1315 KAPSOYA
	722571	722571 WILFRED SHINYAKA ANDABWA	14141122748	192	2828	123	1740	506	3717	220	3080	201	2814	192	2688 PLT.1316 KAPSOYA
	722572	722572 TOM BANDA	14141122755	142	1975	119	1610	225	2657	235	3290	239	3346	235	3290 P/NO 9/1296 KAPSOYA
	722573	722573 TOM BANDA	14141122763	79	1097	250	4337	102	1337	261	3654	258	3612	261	3654 P/NO 9/1296 KAPSOYA
	722575	722575 RICHARD K SUGUT	14140575995	30	453	39	202	47	609	46	644	46	644	49	686 9/1295 KAPSOYA
	722576	722576 JONAH KIPTANUI TARUS	14140575961	112	1732	168	2542	109	1498	500	2926	200	2800	195	2730 PLOT NO 9/1295 KAPSOYA
	722577	722577 STEPHEN KIMARU TIONY	14141122771	124	1760	71	926	108	1663	111	1554	104	1456	132	1848 9/1295 KAPSOYA
22334		C/O THOMAS KEMEI	14140576191	8	1154	4	175	359	5775	363	5082	323	4522	345	4830 HSE 9/1295 KAPSOYA
	722580	722580 STEPHEN MAKEWIT MOSONG	14141122227	73	1062	137	2038	49	208	198	2772	194	2716	196	2744 PLOT 9/1292 KAPSOYA
	722584	722584 KODERO H M N ELLY	14141122425	23	365	39	427	28	259	30	420	29	406	30	420 PLOT 9/1292 KAPSOYA
	722585	722585 PAUL NDARA CHEMOWO	14141122367	57	790	82	1083	112	1603	123	1722	110	1540	117	1638 PLOT 9/1292 KAPSOYA
	722587	722587 JOSECK MOGAKA	14141122235	69	086	181	2754	70	970	210	2940	221	3094	216	3024 PLT 9/1324 KAPSOYA
	722588	722588 JOSECK MOGAKA	14141122243	146	2105	93	1270	93	1402	156	2184	143	2002	151	2114 B 9/1324 KAPSOYA
	729671	729671 STEPHEN KIPLETING RONOH	14141122680	35	202	30	420	24	371	45	089	40	260	39	546 1498 KAPSOYA
	729672	729672 ALEX MUGO	14141190331	40	263	26	723	20	305	63	882	69	996	92	1064 1498 KAPSOYA
	730022	730022 LINUS KIPYEGO	14141122797	9	754	89	978	89	618	82	1148	99	924	20	980 PLT 9/2226/KAPSOYA
	730555	730555 GRACE ATIENO OLALA	04225859869	145	1966	989	11486	102	1409	669	9826	9/9	9464	639	8946 PL 9/1496 KAPSOYA
	731254	731254 JOHN WAFULA SIMIYU	14140569881	198	7777	80	1081	196	3039	199	2786	506	2884	201	2814 P/N 9/1727 KAPSOYA
	731297	731297 CHEPKECH NANCY MUNERIA	14141122441	130	2039	164	2478	126	1900	169	2366	154	2156	166	2324 PLT 1388 KAPSOYA
	731469	731469 JOSPHAT SAWE BELSOY	14140258964	63	872	146	2179	171	2369	189	2646	191	2674	189	2646 2666 KAPSOYA
	731635	731635 HILLARY KETEM KWAMBAI	14140570202	98	1861	128	1893	114	1520	133	1862	132	1848	136	1904 P/N 91/1474 KAPSOYA
	731887	731887 JOSPHINE C.NGASURA	14140568503	155	2450	169	2482	131	1922	176	2464	154	2156	166	2324 P/N 91/1474 KAPSOYA
	732061	732061 LILIAN WERE	14141122250	73	957	53	721	94	1341	100	1400	95	1288	6	1358 PLT NO 9/572 KAPSOYA
	732127	732127 CHARLES CHOGE S/NO 0144	14140570038	21	244	144	2065	208	3395	269	3766	282	3948	273	3822 PLT NO. 9/572 KAPSOYA
	732137	732137 RUTH WAITHERA KAIRU	14141122540	81	1198	114	1662	103	1516	124	1736	115	1610	132	1848 PLT 1407 KAPSOYA
	732355	732359 COSMAS MUTAI	14141123001	103	1577	129	1909	95	1379	127	1778	121	1694	136	1904 PLT 1411 KAPSOYA
	732523	732523 FLORA JELAGAT CHEBII	14141122334	185	2976	54	691	102	1502	197	2758	213	2982	211	2954 PLT 1471 KAPSOYA
	732697	732697 RISPER JEPCHIRCHIR MAIYO	14141190307	69	897	34	449	51	423	65	910	70	086	74	1036 BLOCK 9/1467 KAPSOYA
	734390	734390 JOSHUA NYAKUNDI NYAKEGO	14141122557	55	756	22	740	87	1254	26	1064	88	1246	80	1120 PN B 1729 KAPSOYA
	734743	734743 BEATRICE BIWOTT	14141190349	175	2811	185	2819	185	2876	189	2646	189	2646	190	2660 BLK 9/1721 KAPSOYA
	734787	734787 EUNIPHAS K KOITABA	14140576167	100	1526	100	1526	83	1051	101	1414	105	1470	86	1372 BLK 9/1721 KAPSOYA
	735343	735343 CELIA JEBET CHELAL	14140569865	30	449	30	449	28	773	55	770	51	714	53	742 BLK 9/1647 KAPSOYA
	735812	735812 TABITHA JELAGAT TANUI	14140575847	26	411	31	439	24	329	25	350	28	392	30	420 PLT B9/373 KAPSOYA
	2021211	2021211 DAVID KIPTARUS BIWOTT	14141122821	22	208	64	816	29	824	20	200	46	644	23	742 BLK 9/1386 KAPSOYA ESTATE
	2023604	2023604 LOYCE CHEPKORIR BIWOT	14140568370	153	2434	43	557	198	2777	184	2576	179	2506	181	2534 B 9/1383 KAPSOYA
	2030159	2030159 ROBERT CHELUGO MININGWO	14140569915	100	1526	193	2948	157	2413	201	2814	200	2800	190	2660 1282 KAPSOYA NEAR CHIEFS CAMF
	2032528	2032528 MOSES MACHARIA KARANJA	14140576019	163	2282	158	2380	26	1419	173	2422	195	2730	183	2562 9/1214 KAPSOYA
	2034884	2034884 DOROTHY CHEPKEMOI YATOR	14141122524	175	2553	101	1543	224	3914	230	3220	231	3234	237	3318 PLOT 9/1226 KAPSOYA
22335		2035025 PAUL - CHEBII	14141122433	102	1471	110	1158	121	1804	126	1764	123	1722	123	1722 KAPSOYA P/N 9/1285
	2035710	2035710 JOSEPH KIPCHUMBA LAGAT	14141122722	29	402	41	427	92	870	99	924	69	996	54	756 9/1225 KAPSOYA
	2035900	2035900 LEONARD KEITANY	14140570095	29	972	28	434	45	577	46	644	40	260	40	560 PLT 9/1230 KAPSOYA
	2040525	2040525 ALICE CHEPNGETICH KANDIE	14141122284	134	2108	24	380	29	847	172	2408	165	2310	170	2380 BLK 9/411 KAPSOYA
	2041500	2041500 GRENVILLE KIPLIMO MELLI	14141122292	65	100	6		ļ	0	í					4700047 444/07:00
					00/	80	1184	65	8/0	/8	1092	75	1050	9	840 BLK 9/411 KAPSOYA

2049053 F	7049053 RICHARD AMES KENYALIA	4 4 1 7 1 2 3 3	2		1		2	-		0000			0		
2049515 L		14140568388	182	2928	99	878	116	1734	190	2660	183	2562	197	2758	2758 9/979 KAPSOYA
2049917 N	A OGOL	14105721923	180	2896	125	1978	101	1866	194	2716	186	2604	190	2660 k	2660 KAPSOYA 985 KAPSOYA
2060035	2060035 GODFREY MAINYE SWARA	01451082588	303	5551	06	1186	256	4398	361	5054	378	5292	361	5054 F	5054 P[LT 1290 KAPSOYA
2060509 v	2060509 WINSTON HEZRON OTIWI	14140569956	228	4138	187	2909	214	3491	213	2982	218	3052	221	3094 F	3094 P[LT 1290 KAPSOYA
2063144 F		14140575888	31	378	148	2348	61	029	167	2338	175	2450	162	2268	2268 9/880 KAPSOYA
2063146 E	2063146 ELIUD KIPYEGO MUTAI	14140575896	138	2164	163	2437	146	2231	170	2380	183	2562	171	2394	2394 9/880 KAPSOYA
2068167 E	2068167 EZEKIEL KIMELI KIPKITONY	14141122482	168	2688	52	657	121	1808	199	2786	196	2744	191	2674	2674 1016 KAPSOYA
2076027 F	2076027 PAULINE JEPKEMBOI TOROITICH { 14141122854	14141122854	36	390	35	378	33	362	33	462	33	462	36	504 E	504 B9/1761/KAPSOYA ESTATE
2076028 F	2076028 PAULINE JEPKEMBOI TOROITICH { 14141122862	14141122862	32	477	34	474	68	1203	84	1176	92	1064	80	1120	1120 9/2655 KAPSOYA
2086872 J.	2086872 JOYCE CHEBICHII KIMOSOP	14140575904	29	961	30	429	38	270	72	1008	89	952	75	1050	1050 9/969 KAPSOYA
2086873 k	2086873 KENNETH KIPKEMBOI CHEROP	14140575912	116	1736	42	236	53	889	119	1666	131	1834	129	1806	1806 9/969 KAPSOYA
2091934 L	2091934 LEAH JEMELI MALOT	14140576209	120	1867	147	2198	66	1450	173	2422	166	2324	153	2142	2142 9/1696 KAPSOYA
2095711 L	2095711 LYDIA JEBET KIMUTAI	14140360836	26	643	203	2790	83	1185	219	3066	225	3150	231	3234	3234 9/1696 KASOYA
Z099160 T	2099160 TERESA CHEMESUNDE MARU	14140568321	22	361	20	291	56	398	32	448	59	406	36	504 F	504 PLOT NO. 9/984 KAPSOYA
2099354 1	2099354 TERESA CHEMESUNDE MARU	14140568339	48	648	53	654	49	629	29	938	73	1022	65	910	910 PLT NO 9/984 KAPSOYA
2108244 (II TUBEI	14141122219	28	807	104	1492	20	639	113	1582	125	1750	110	1540 E	1540 BLK 9/1219 KAPSOYA
2113500 L		14140310989	154	2564	156	2205	143	2168	170	2380	165	2310	160	2240 F	2240 PLOT 9/981 KAPSOYA
2113505 L		14140258717	29	844	81	1102	78	1094	88	1232	82	1190	88	1246 F	1246 PLT B9/1219 KAPSOYA
2115344 (⊻	14140570152	232	3653	274	4665	428	7652	453	6342	440	6160	456	6384 F	6384 PLT 9/983 KAPSOYA
2118568 F	~	14140569949	154	2451	205	3460	152	2330	223	3122	236	3304	221	3094 F	3094 PLOT 9/687 KAPSOYA
2125101 S		01451167470	4	539	36	276	32	363	49	989	54	756	45	630 F	630 PLOT 948/9//B KAPSOYA HSE3
2127967 E	10525	14140569964	32	477	43	557	29	428	30	420	36	504	36	504 k	504 KAPSOYA P/N 9/946
2131501		14141122466	47	637	20	329	18	313	28	812	89	952	9	840 k	840 KAPSOYA PLT 945
2141747	2141747 JUDITH LUMAGO CHIBUTSA	14140568446	83	1227	119	1747	75	1055	120	1680	129	1806	136	1904 F	1904 PLT 9/989 KAPSOYA
2159442 E		14140575854	107	1650	103	1459	127	1877	138	1932	134	1876	144	2016 F	2016 PLT 9/1742 KAPSOYA NEXT TO KINGDOM HALL
2159586 5	HE ACHESA	14140569972	40	563	44	267	48	619	47	658	47	658	49	686 F	686 PLOT 9/1742 KAPSOYA -KINGDOM HALL
2159603		14140568438	36	207	69	935	99	906	2/9	1064	79	1106	71	994 E	994 BLOCK 9/1463 KAPSOYA
2162145	wo	14140575839	65	832	133	1974	138	2098	139	1946	138	1932	141	1974	1974 1167 KAPSOYA
2180232		01451161366	122	2331	20	731	20	731	152	2128	167	2338	169	2366 F	2366 P/N 9/561 KAPSOYA
2180742 5		14141122839	150	2163	150	2163	150	2163	146	2044	153	2142	147	2058 E	2058 B/9/593/3 KAPSOYA
2180743		14141122847	24	391	17	301	11	239	40	260	39	546	36	504 E	504 B/9/593/3 KAPSOYA
2184985 /		14141122532	20	086	76	1064	71	994	40	424	57	999	16	287 E	287 B/9/593/3 HSE 6A KAPSOYA
2188648 J	ŞA	14140568453	69	996	78	1092	09	840	22	905	65	973	26	815	815 9/639 KAPSOYA
2190726		14140568412	47	658	47	658	49	989	40	563	4	267	48	619 F	619 PLOT NO 9/643
7721912		14140568461	2/9	1064	79	1106	71	994	36	202	69	935	99	906	906 9/3283 KAPSOYA
2199496 \		14140310971	254	3556	243	3402	250	3200	65	874	225	3536	20	612 E	612 E/M/BLK 9/588 KAPSOYA
2199497 F		14141122268	249	3486	253	3542	267	3738	132	1766	244	4269	136	2089 E	2089 E/M/BLK 9/588 KAPSOYA
2200709 J	٦,	01451161382	15	210	11	154	11	154	11	243	6	223	∞ ;	212 F	212 PLT 588/9 KAPSOYA
2200793	:LLO	14140568214	189	2646	700	2800	202	7870	198	3090	155	2372	181	7252	2522 PLOT 9/62 / KAPSOYA
2206098		14141122987	173	2422	166	2324	153	2142	120	1867	147	2198	66	1450 6	1450 637 KAPSOYA
2214433 E	00	14141122904	126	1764	123	1722	123	1722	102	1471	110	1158	121	1804	1804 PLT BLOCK 9/631 KAPSOYA
2215758 §		04225859422	99	924	69	996	25	756	29	402	41	427	65	870 F	870 PLT BLOCK 9/631 KAPSOYA
2217955 J		14140576159	54	756	55	770	57	798	47	1221	9	1427	20	1179 F	1179 P/N 636 KAPSOYA ESTATE
2231503 F		14141122565	20	700	46	644	53	742	22	208	49	816	29	824	824 ISOLATED KAPSOYA
2241969 (14140568289	99	924	64	968	4	968	65	985	09	1004	22	692	1604 KAPSOYA
2242366 J	:60	14141122698	143	2002	152	2128	162	2268	159	2446	132	1789	152	2242	1604 KAPSOYA
2257096 E		14141122714	66	1386	83	1162	82	1190	45	739	94	1543	81	1262 k	KAPSOYA P/N 1262
10027300	Chacola in Chavely in the Coeffee	1/1/1/1/2005	10	5	(l	

1254 9/2074 KAPSOYA	9/593 KAPSOYA HSE 2	322 9/593/ 4B KAPSOYA HSE 6	9/593/ 4B KAPSOYA HSE 1	1012 593/4B KAPSOYA	P/N 1640 KAPSOYA	PLT 9/1579 KAPSOYA	B9 /1606 KAPSOYA	2027 BLK 9/1571 KAPSOYA SITE &S	3096 PLOT B./9/1570 KAPSOYA	1699 B 9/1576 KAPSOYA SQ 1	134 BLK9/1563 KAPSOYA	1189 PLT 9/1642 KAPSOYA/HSE	639 1635 KAPSOYA==HSE B	478 1635 KAPSOYA==HSE A	418 BLK 9 /1643 KAPSOYA HSE A	1298 BLK 9/1643 KAPSOYA	1760 1548 KAPSOYA	1626 P/N 9/561 KAPSOYA	678 9/1565 KAPSOYA	237 BLOCK 9/1536 KAPSOYA	826 9/986 KAPSOYA	2464 EMC9/1695 KAPSOYA	2842 B/9/1706/KAPSOYA S/ SERVICE	602 9965 KAPSOYA	1706 KAPSOYA	1367 KAPSOYA	3024 ISOLATED KAPSOYA	826 AT KAPSOYA	266 1473 KAPSOYA	1666 9/1709 KAPSOYA	2534 9/1209 TINYAR	826 1313 KAPSOYA	574 PLT B9-1208 KAPSOYA	2030 PLT 9/955 /KAPSOYA	2772 BLOCK 9/952 KAPSOYA	2212 PLOT 9/952 KAPSOYA	420 PLT NO.40 KAPSOYA	1316 B9/1212 KAPSOYA	994 1207 BLK 9 KAPSOYA	1207 BLK 9 KAPSOYA	1207 BKL 9 KAPSOYA	784 PLT 1718KAPSOYA	588 PLT 1718 KAPSOYA
4 9/207	5 9/593	2 9/593	1 9/593	2 593/4	8 P/N 1	2 PLT 9,	1 B9 /1	7 BLK 9	6 PLOT	9 B 9/1	4 BLK9,	9 PLT 9,	9 1635	8 1635	8 BLK 9	8 BLK 9	0 1548	9 N/A	8 9/156	7 BLOC	986/6 9	4 EMC9	2 B/9/1	2 9965	6 1706	2 1367	4 ISOL	6 AT K	6 1473	6 9/170	4 9/120	6 1313	4 PLT B	0 PLT 9,	2 BLOC	2 PLOT	0 PLT N	6 B9/12	4 1207	2 1207		4 PLT 1	8 PLT 1
125	795	32	301	101	418	1012	109	202	308	169	13	118	63	47	41	129	176	162	29	23	82	246	284	09	989	2002	302	82	26	166	253	82	22	203	277	221	42	131	66	742	602	78	58
87	73	23	15	75	32	75	42	128	144	126	0	77	44	30	28	83	83	110	49	6	29	176	203	43	49	143	216	29	19	119	181	29	41	145	198	158	30	94	71	53	43	26	42
740	199	392	527	134	456	134	209	2002	2657	1466	529	531	421	542	756	1725	2032	1104	209	320	924	2380	2786	574	728	1946	3094	938	280	1554	2674	924	260	2156	2604	1974	420	1218	086	742	260	826	742
57	64	28	39	0	52	0	47	135	130	100	10	34	24	34	28	104	137	81	47	18	99	170	199	41	25	139	221	29	20	111	191	99	40	154	186	141	30	87	20	53	40	29	23
756	223	476	421	982	134	985	498	1384	2265	1287	390	736	9/9	564	807	1576	1750	1115	276	443	784	2352	2898	930	658	1862	9908	924	592	1680	2646	910	260	2016	2758	1946	462	1218	086	756	546	644	200
55	52	34	30	73	0	73	38	101	113	68	30	45	41	32	28	88	133	87	41	23	99	168	207	45	47	133	219	99	19	120	189	9	40	144	197	139	33	87	70	54	39	46	20
1120	086	546	260	1218	420	1218	089	1764	2212	1876	280	952	672	504	924	1582	2114	1666	602	996	134	356	1580	829	523	1903	3806	423	269	1378	2358	1073	542	1939	2349	3096	418	1197	785	537	554	742	426
80	20	39	40	87	30	87	45	126	158	134	20	89	48	36	99	113	151	119	43	69	0	20	118	49	35	121	206	59	16	95	170	72	43	129	128	144	32	79	29	40	47	53	53
1246	952	420	574	994	420	994	288	2072	1974	1722	364	756	616	546	924	1400	2086	1582	574	882	807	316	2397	209	617	1898	2206	852	297	1154	2635	617	409	1516	2452	2657	456	885	882	421	510	785	593
68	89	30	41	71	30	71	42	148	141	123	56	54	44	39	99	100	149	113	41	63	09	18	156	47	48	119	197	92	17	84	183	48	33	107	137	130	29	9	64	30	44	59	48
1064	854	504	644	1106	462	1106	260	1904	1946	1680	294	742	644	434	882	1526	1862	1554	089	924	165	269	2783	526	292	1981	1715	741	319	1717	2705	884	134	1950	1165	2265	134	1090	286	499	528	624	523
92	61	36	46	79	33	79	40	136	139	120	21	53	46	31	63	109	133	111	45	99	3	22	179	41	45	132	119	62	18	119	178	29	0	143	75	113	0	80	9	51	46	51	41
14141122573	14140568479	14140258618	14140258642	14140570137	14141122896	14141122300	14141122276	14141190257	14140570178	14140568313	14140570160	01451161390	01451218471	01451161341	14140576183	14141190372	14141122490	14141122508	14141190265	14141190273	14140035610	4140560583	14140560344	14141165580	14140381782	14140381477	14140184962	14140778318	14140380297	14140381600	14140380438	14140381733	14140381691	14140026551	14140035131	14140380222	14141165747	14140560401	14140560534	14104590329	14140560567	14140143968	14140560237
2300566 FRED KIPKURUI KIBOR	JANET WITACHITSA AYIYA	SUSAN WANGUI WAINAINA	SUSAN WANGUI WAINAINA	2331073 REBECCA JEPKOSGEI KATAM 14	CHARLES DULO NYAORO	GRENVILLE KIPLIMO MELLI	2380666 RICHARD KIPKOSGEI KIPTALAM	2383303 MOSES MAKONJIO OKELLO	NOAH CHERUIYOT KETER	MARY JEMATIA MENGICH	2400706 JULIUS KIPKEMBOI NG'ETICH 14	SAMUEL CHERUIYOT KIPITOK	2411515 ISABELLAH KEMUMA OKEYO 0.	2411516 DINAH JEROTICH KIGEN	2423801 CHARLES KAPCHANGA NGEIYWO 14	2425920 JULIET CHEMOS BARMASAI	EZEKIEL KIMELI KIPKITONY	KOIMUR KIPLAGAT	2477574 MOSES MAKONJIO OKELLO	MOSES MAKONJIO OKELLO	711195 GRACE KAVERE MIMBOHI	711436 CHRISTINE CHEPKOECH BARTOCH 14140560583	711532 JOHN KIPKETER LANGAT 14	711773 JOAB OTIENO OCHIENG	712005 MARY CHEPKURUI MIBEI	712068 WILLIAM K KIPLAGAT BOINETT 12	712239 JOSEPH KIMUTAI TUWEI	712245 JOSEPH KIMUTAI TUWEI	GEORGE ODOYO OCHIENG	715682 SUSAN CHEPKEMEI KAPKAMA	715706 DANIEL N WAFULA	722528 ABSOLOM A ANGALUKI	724079 MARY KALEHA KISAMBO	724083 CHRISTOPHER KIMARU SANG	CHRISTOPHER KIGEN	724085 ABWAOO NDAYARA 1	724086 VINTO CHERUIYOT KIPLIMO 14	724093 S K BOINET	724094 ISMAEL K KURUI	KWONY	HENRY KIPLAGAT KOROS		724099 MOSES OKOTH OINDO
2300566	2312780	2328736	2328739	2331073	2345587	2376119	2380666	2383303	2388234	2400081	2400706	2411514	2411515	2411516	2423801	2425920	2443284	2443285	2477574	2477577	711195	711436	711532	711773	712005	712068	712239	712245	715652	715682	715706	722528	724079	724083	724084	724085	724086	724093	724094	724095	724096	724098	724099
	21149																					22538																					
	13																					14																					

	72410	724103 ON GOU ALLOYCE	14140560559	17	306	18	287	12	248	14	196	12	168	11	154 14	154 1472 KAPSOYA
	72410	724104 ALLOYCE NYANDIEKA ONGOU	14140026379	30	390	10	229	0	134	21	294	26	364	20	280 PI	280 PLT 9/1476 KAPSOYA/HSE/NEXT TO MARIAKANI
	72410	724105 ONGOU ALLOYCE	14140035461	216	3810	146	2226	152	2085	234	3276	237	3318	243	3402 Pt	3402 PLT B9/1480 KAPSOYA==SQ 2
	72410	724106 JANE CHEPKORIR SANG	14140560443	120	1888	119	1116	55	672	129	1806	134	1876	117	1638 PI	1638 PLT B9 / 1480 KAPSOYA == MAIN HSE
	72410	724107 NANCY OKAL	14140381568	149	2226	143	2181	168	2310	166	2324	149	2086	170	2380 PI	2380 PLT B9/1480/KAPSOYA==SQ 1
	72410	724108 DANIEL KIPKOSGEI MURGOR C/O	14140560278	126	1865	152	2475	117	1829	155	2170	143	2002	163	2282 P,	2282 P/N BLK 9/1481 KAPSOYA
	72410	724109 JULIUS KIPTOO SINGOEI	14140560575	110	1571	108	1062	101	1369	126	1764	117	1638	112	1568 P,	1568 P/N BLK 9/1481 KAPSOYA
	7241	724110 JAMES K KITTUR	14140381642	101	1384	135	2005	128	2027	136	1904	148	2072	126	1764 9,	1764 9/1484 KAPSOYA
	7241	724111 JENIFER JEMUTAI ROTICH	14140778508	101	1384	100	1461	96	1241	91	1274	86	1372	110	1540 9,	1540 9/1484 KAPSOYA
	7241	724112 CHARLES K CHERUIYOT	14140380420	113	1675	134	2161	91	1389	138	1932	131	1834	143	2002 B	2002 B 9/1477 KAPSOYA
	724113	13 CECILA CHEPKOK	14140560435	229	3989	418	7955	1609	32228	1507 2	21098	1599	22386	1611 2	22554 B5	22554 B9/1477 KAPSOYA
	7241	724114 EUNICE JEROTICH TEROTICH	14140560450	192	2881	195	3020	173	2844	509	2926	203	2842	199	2786 BS	2786 B9/1477 KAPSOYA
	72413	724115 CAROLINE ATIENO AWUOR	14140560369	62	806	156	2306	89	933	197	2758	500	2926	203	2842 B5	2842 B9/1477 KAPSOYA
	72413	724119 DAVID KIPKEMOI CHERUTICH	14140560476	30	421	39	527	15	301	46	644	41	574	40	260 PI	560 PLT.1492 KAPSOYA
	7241	724120 DINAH JUDITH KIPTALA	14140560260	4	171	4	171	3	162	4	26	3	42	7	14 86	98 PLOT B/9/1488 KAPSOYA
	7241	724122 A A ADAN	14140140147	73	985	0	134	75	1012	79	1106	71	994	87	1218 PI	1218 PLOT B\9\1488 KAPSOYA
	7241	724124 RASHID KIBIWOT HASSAN	14140380495	31	390	46	574	41	547	52	728	45	630	49	686 Pt	686 PLOT B\9\1488 KAPSOYA
	7241	724127 PETER K MATHENGE	14140560500	83	1130	124	1840	114	1783	129	1806	137	1918	142	1988 P,	1988 P/N 1493 KAPSOYA
	7241	724128 EDWARD B SIMBA	14140560229	81	1102	78	1094	59	844	80	1120	88	1246	88	1232 9,	1232 9/2661 KAPSOYA
	7241	724129 L.K.KOTUT MR L.K.KOTUT	14140560526	22	355	9	180	4	156	24	336	31	434	23	322 9,	322 9/2661 KAPSOYA
	72413	724130 FRANCIS KARIUKI GICHUKI	14140560468	18	307	44	555	24	371	48	672	40	260	45	630 97	630 9/2661 KAPSOYA
15 21	21831 72413	724131 К КОЕСН	14140560542	64	836	62	835	09	865	99	924	63	882	69	6 996	966 9/2661 KAPSOYA
	72413	724132 KENNETH LAWRENCE CHEBET	14140380537	38	498	47	209	42	109	40	260	42	288	45	630 Pt	630 PLT B9/1498 KAPSOYA
	72413	724133 ZACHARA MOHAMED ISMAIL	14140380248	88	1214	94	1344	83	1267	87	1218	83	1162	94	1316 PI	1316 PLT B9 574 KAPSOYA
	72413	724135 FRED KWAME AMAMO	14140560484	138	1285	77	1162	80	1199	236	3304	249	3486	232	3248 Pt	3248 PLOT 573 KAPSOYA
	72413	724136 THOMAS IBRAHIM OKINDA	14140560286	103	1440	112	1580	118	1821	123	1722	117	1638	119	1666 Pt	1666 PLOT 573 KAPSOYA
	7296;	729675 ISMAEL K KURUI	14140560310	24	456	22	393	28	455	31	434	29	406	25	350 14	350 1498 KAPSOYA
	7296;		14140560328	26	352	146	2219	25	409	156	2184	161	2254	157	2198 PI	2198 PLT B9 571 KAPSOYA
	729677	77 GABRIEL ARAP CHEPKEMBOI TOI 14140560252	14140560252	46	574	54	669	26	295	59	826	29	938	99	924 Pt	924 PLT 9/1736/ KAPSOYA.
	7297.	729778 PATRICK CHERUIYOT KOSIOM	14140184632	20	327	19	326	19	327	20	280	20	280	23	322 Pt	322 PLT 9/2226-KAPSOYA.
	72989	729894 ROSE JERUTO KANDA	14140380313	37	398	89	837	0	134	74	1036	69	996	61	854 Pt	854 PLT 9/2226 KAPSOYA.
	73013	730136 JAPHET N OTIKE	14140381485	137	1963	189	2797	173	2664	198	2772	191	2674	196	2744 Pt	2744 PLT 1735 KAPSOYA
	73028	730281 ELIZABETH WAMBUI KARANJA	14140560377	59	687	61	788	51	654	9	840	99	924	9	840 1.	840 1731 KAPSOYA
	73025	730293 THOMAS C N MISOKA	14140360786	12	251	7	194	10	205	11	154	10	140	13	182 Bl	182 BLK B9/572 KAPSOYA
	73068		14140381527	116	1625	200	3009	252	4414	241	3374	255	3570	257	3598 Pt	3598 PLOT NO 9/1496 KAPSOYA
	730787	87 JOSEPH OBUDHO OWARE	14140138752	57	801	160	2326	216	3526	213	2982	202	2828	220	3080 BI	3080 BLK 9/ 1728 BORDER ELGEYO
	7308⁄	730848 GEORGE MATHU	14140381436	155	2456	128	2027	223	3597	243	3402	239	3346	251	3514 BI	3514 BLK 9/1728 BORDER ELGEYO HSE 1
	7311,	731175 CHRISTINE KEMUNTO NYARANGQ 14140380362	14140380362	168	2243	189	2833	157	2400	186	2604	195	2730	190	2660 P,	2660 P/N 9/1727 KAPSOYA
	7314	731442 NICHOLAS KIPKURUI RONO	14140184988	94	1162	94	1162	36	442	89	1246	97	1358	100	1400 2t	1400 2666 KAPSOYA
	7315	731511 BEATRICE KEYA KWANDA	14140380271	20	295	51	654	09	751	29	938	63	882	69	966 B	966 B 9 1494 KASPOYA
	7316	731657 ELIJAHK RONO	14140560211	30	320	29	407	42	415	39	546	40	260	40	560 P,	560 P/N 91/1474 KAPSOYA
	7316	731665 JOSEPH GITHINJI KIHARA	14141165606	81	1660	84	1754	83	1741	9/	1064	68	1246	80	1120 P,	1120 P/N 91/1474 KAPSOYA
	7321	732113 STEPHEN KYALO KUENDO	14140381741	0	134	0	134	150	2058	162	2268	150	2100	154	2156 PI	2156 PLT NO. 9/575 KAPSOYA
	7321	732146 JONATHAN KUTO MAIYO	14140381626	14	276	1	144	36	469	34	476	30	420	33	462 K	462 KAPSAOYA P/N 9/1407
	73240	732405 PEREZ CHEPKIRUI BIRIR	14140184897	44	452	40	473	41	526	43	602	40	260	40	560 Pt	560 PLOT 9/1470 KAPSOYA
	7327,	732721 FLORENCE KWAMBOKA NYAMETE 14140184806	14140184806	28	401	3	160	11	256	30	420	30	420	23	322 BI	322 BLOCK 9/1467 KAPSOYA
	73285	732851 DCKSON ASHIRA	14140184715	46	574	55	720	73	1092	45	630	46	644	45	630 Pt	630 PLOT NO B/1419 KAPSOYA
	73320	733206 PHILIP KIPKOSGEI KIMAIYO	14140025462	92	1190	93	1299	94	1321	90	1260	68	1246	82	1148 9,	1148 9/1414 KAPSOYA
	7332	733215 ELIZABETH BOINETT	14140184905	195	2929	233	4062	86	1557	294	4116	307	4298	316	4424 B	4424 B9/1404 KAPSOYA

	100001	733659 SALMA MOHAMED SAID	14140138943	115	1717	105	1384	147	2162	149	2086	143	2002	154	2156 BLK	2156 BLK 9/1420 KIPSOEN
	733820	733820 DAVID KIPKEMOI CHERUTICH	14140381725	391	7391	06	1495	222	4827	429	9009	431	6034	412	5768 PLC	5768 PLOT B1396 KAPSOYA
	734380	734380 NEVADA KADENYEKA SHIRAMBA 14140381683	٩ 14140381683	84	1151	82	1145	86	1530	66	1386	90	1260	93	1302 9/1	9/1397 KAPSOYA
	734394	734394 JAMES IRUNGU MWANGI	14140035016	120	1777	122	1627	105	1487	139	1946	121	1694	111	1554 139	1394 KAPSOYA HSE 1
	734469	734469 WILLIAM K KIPKITONY	14140778284	38	459	27	392	33	463	36	504	43	602	39	546 139	1394 KAPSOYA HSE 2
	734585	734585 RASHID KIBIWOT HASSAN	14140560419	165	2450	177	2728	177	2728	179	2506	170	2380	161	2254 P/N	2254 P/N B/9/1725 KAPSOYA
	734847	734847 EMMANUEL KIPKOGEI ROP	14140381469	91	1362	94	1408	106	2519	101	1414	94	1316	91	1274 PLT	1274 PLT 1738/9 KAPSOYA/HSE
	734845	734849 LENA CHEMUTAI KORIR	14140035792	299	5352	166	2562	98	1113	310	4340	316	4424	280	3920 PLC	3920 PLOT NO 9/1737
16 23618		734916 SUSAN J BARTILOL	14140360760	65	982	09	1004	25	692	99	924	64	968	64	896 PLC	896 PLOT NO 9/1737
	734985	734989 NYIRANTA KIRUTI MAINA	14140778409	159	2446	132	1789	152	2242	143	2002	152	2128	162	2268 PLC	2268 PLOT NO. B9/1714 KAPSOYA
	735042	735042 DANIEL BARTONJO	14140184921	51	571	43	544	42	548	55	770	29	826	49	989 PLC	686 PLOT NO. B9/1714 KAPSOYA
	735141	735141 ISAAC KIPLIMO SANG	14140184772	69	846	20	916	79	1112	20	086	99	924	70	980 PLT	980 PLT 9/1741 KAPSOYA/BEFORE CORNER NDOGO
	735274	735274 JANE JEPCHUMBA SARMWEI	14140184822	89	942	63	857	09	709	49	968	99	924	99	924 9/1	924 9/1366 KAPSOYA
	735276	735276 JANE JEPCHUMBA SARMWEI	14140381790	36	501	4	280	38	459	46	644	40	260	45	630 9/1	630 9/1366 KAPSOYA
	735534	735534 GLADYS JERUTO KANGOGO	14140381675	29	882	79	1072	98	1236	82	1148	68	1246	80	1120 PLT	1120 PLT 9/1704 KAPSOYA/NEAR KENYA-RE
	735795	735799 MIRIAM JELAGAT KAPKIAI	14140035347	52	675	46	528	45	529	53	742	20	700	28	812 PLT	812 PLT B9/373 KAPSOYA
	736081	736081 PAULINE JEPKEMBOI TOROITICH	14140184707	40	626	7	232	203	4278	254	3556	243	3402	253	3542 PLT	3542 PLT B9/373 KAPSOYA SHOP 5
	2010824	2010824 MARY CHEBOO GIMNYIGE	14140184657	38	499	52	644	20	632	20	700	53	742	54	756 PLT	756 PLT B9/373 KAPSOYA SHOP7
	2018690	2018690 AGFAXARD KIPRUTO KOECH	14140778250	82	1171	80	981	82	1170	79	1106	75	1050	87	1218 BLK	1218 BLK 9/982 KAPSOYA HSE 3
	2022325	2022325 SYLVESTER KIMAIYO NGETICH	14140184699	156	2306	181	2796	162	2651	180	2520	178	2492	186	2604 B 9/	2604 B 9/1383 KAPSOYA
	2022811	2022811 ROBERT KOECH BUTTIT	14140184673	77	1045	24	456	78	1134	71	994	8	1120	79	1106 B 9/	1106 B 9/1383 KAPSOYA
	2024185	2024185 ROBERT KIPKOECH LIMO	14140184756	27	385	30	413	52	998	20	700	22	798	99	784 KAF	784 KAPSOYA 9/985
	2026056	2026056 NAOMI CHEROTICH SEUREY	14140184681	107	1557	25	407	167	2436	169	2366	174	2436	189	2646 P/N	2646 P/N 9/1380 ELGEYO
	2026243	2026243 ROBERT KOECH BUTTIT	14140560336	477	8076	202	3729	181	2944	497	8269	486	6804	491	6874 9/1	6874 9/1205 KAPSOYA
	2027122	2027122 WILSON KIGEN S/N 1061	14140778383	128	1893	129	1949	120	1081	134	1876	127	1778	130	1820 BLK	1820 BLK 9/1205 KAPSOYA
	2030804	2030804 ROSALYN G MUGO	14140185001	73	883	48	276	74	985	77	1078	75	1050	20	980 PLC	980 PLOT 9/1281 KAPSOYA
	2031768	2031768 TECLAH CHEPCHUMBA LEL	14140184939	81	1038	81	1038	20	689	26	1064	80	1120	82	1148 PLT	1148 PLT NO. B9/1280 KAPSOYA
	2031772	2031772 TECLAH CHEPCHUMBA LEL	14104595252	137	1973	139	2070	161	2601	176	2464	156	2184	166	2324 P/N	2324 P/N 9/1210 ELGEYO RD
	2039816	2039816 JOHN KIPKOECH TOO	14140381535	12	321	17	461	30	751	11	154	15	210	10	140 KAF	140 KAPSOYA B/9/960
	2040082	2040082 FATUMA FARAH WAISH	14105814157	193	2990	190	2651	189	2794	187	2618	178	2492	190	2660 PLT	2660 PLT 9/959 KAPSOYA ESTATE
	2043341	2043341 PATRICK WAMATUBA WAFULA	14141165549	109	1558	84	1198	220	4081	260	3640	249	3486	257	3598 BLK	3598 BLK 9/411 KAPSOYA
	2046484	2046484 EPIMACH KIPCHIRCHIR MARITIM	14140380230	208	3226	228	4423	248	4638	243	3402	232	3248	250	3500 PLT	3500 PLT 9/1690 KAPSOYA
	2047058	2047058 JANE NANYAMA KIGEN	14140184996	165	2273	196	2943	137	2068	217	3038	236	3304	220	3080 BLK	3080 BLK 9/950 KAPSOYA
	2052220	2052220 KIPSANG DAVID NYOLMO	14140778482	39	207	53	289	62	006	9	840	63	882	09	840 PLC	840 PLOT 91963 KAPSOYA
	2054124	2054124 MWANGI MWANIKI GITONGA	14140026312	161	2445	114	1692	106	1670	175	2450	181	2534	178	2492 PLC	2492 PLOT 91963 KAPSOYA
	2058221	2058221 JOSPHINE JEPKORIR ROTICH	14140380552	30	421	32	487	49	829	20	200	54	756	43	602 BLC	602 BLOCK9/1221 KAPSOYA
	2058264	2058264 ADILITE GAUDENZIA MAKAA	14140380529	62	803	29	913	34	510	99	924	9/	1064	71	994 BLC	994 BLOCK 9/1221 KAPSOYA
	2059021	2059021 STANSLOUS KOKONYA NDOMBER 14140380214	E 14140380214	126	1837	26	1513	65	1404	118	1652	120	1680	129	1806 BLC	1806 BLOCK 9/1221 KAPSOYA ESTATE
	2065325	2065325 REGINAH MUGURE GITAU	14140380560	225	3937	82	1116	581	12992	298	8372	209	8498	589	8246 9/8	9/880 KAPSOYA
	2065655	2065659 ATANAS KIPCHUMBA BITOK	14140380370	105	1491	105	1491	108	1705	106	1484	101	1414	110	1540 BLK	1540 BLK 9/1181 KAPSOYA
	2065930	2065930 THOMAS CN MISOKA	01451036014	318	3841	249	3937	214	3591	333	4662	329	4606	331	4634 BLK	4634 BLK 9/1181 KAPSOYA
	2066362	2066362 ROSELINE CHEPKEMBOI SEII	14140380578	125	1805	173	2664	186	3070	190	2660	176	2464	189	2646 101	2646 1016 KAPSOYA
	2066781	2066781 DANIEL CHESEREK BARTONJO	14140380321	22	694	100	1411	117	1741	120	1680	129	1806	123	1722 101	1722 1016 KAPSOYA
	2066782	2066782 DANIEL CHESEREK BARTONJO	14140380289	23	224	26	1031	188	3167	254	3556	239	3346	216	3024 101	3024 1016 KAPSOYA
	2069602	2069602 JAMES KARANJA MUHUHU	14141165721	27	392	54	669	72	1070	80	1120	79	1106	92	1064 BLK	1064 BLK 9/988 KAPSOYA
	2069604	2069604 JAMES KARANJA MUHUHU	14140778540	40	536	38	456	38	498	39	546	40	260	40	560 BLK	560 BLK 9/988 KAPSOYA
	2070842	2070842 MWAURA NGUKU KAMAU	14140380255	100	1461	68	1372	133	2117	141	1974	150	2100	146	2044 B9/	2044 B9/1761/KAPSOYA ESTATE
	2070844	2070844 MWAURA NGUKU KAMAU	14140380487	17	304	20	356	12	792	11	154	10	140	11	154 B9/	154 B9/1761/KAPSOYA ESTATE
	2075597	2075597 RICHARD RVEGON KIDROTICH	14140380602	198	3242	150	1911	228	2230	252	25.17	251	3514	269	100 2266	2766 pg/1761 /kApsONA ESTATE

		2082941 AIVIIIVA ISSAK ALI	14140104/43	40	040	1	2	ì	000	ì	930	4	QTQ	1	200	
	208488:	2084881 RICHARD KIPLAGAT SAINA	14140184913	26	208	9	800	09	800	61	854	99	924	65	910 9/1	910 9/1114 KAPSOYA
	209031	2090313 MARY NYIVA MWANIKI	14140778243	198	3090	155	2372	181	2522	189	2646	200	2800	205	2870 PLC	2870 PLOT 9/951 KAPSOYA
	209031	2090315 JANET JERUTO KURUI	14140184798	54	200	71	686	81	1148	79	1106	99	924	26	1064 9/5	1064 9/951 KAPSOYA EST
	209173	2091737 JANE CHERONO MAIYO	14140778326	14	261	34	425	47	582	43	602	29	826	51	714 956	714 956 KAPSOYA
	209174	2091740 JOHN - MAIYO	14140380586	36	390	62	741	28	740	43	602	41	574	49	989	686 956 KAPSOYA
	209674;	2096747 ALICE KALUKI MUSYA	14140380594	11	204	09	772	66	1346	66	1386	101	1414	94	1316 PL	1316 PLT 1697 KAPSOYA SITE SER
	209996	2099968 ROSE KIBII S/N 12996	14140381519	119	1598	196	2747	186	2785	198	2772	211	2954	203	2842 PL	2842 PLT NO 9/984 KAPSOYA
	210014	2100148 SALOME JEPKOSGEI CHEBET	14140381634	118	1598	89	1085	108	2012	101	1414	132	1848	127	1778 PL	1778 PLT NO 9/984 KAPSOYA
17 21207		2100388 JAPHET NATANDULA OTIKE	14140184814	46	528	79	1072	62	916	79	1106	29	826	81	1134 PLC	1134 PLOT B9/977 KAPSOIYA
		2103147 ROBIBINSON RONO LELEI	14104590311	143	2168	78	1098	133		169	2366	176	2464	180	2520 PLC	2520 PLOT NO 9/977
	210568	2105682 JOYCE KIMALEL KIMALEL	14140380511	142	1939	151	2226	153		159	2226	170	2380	161	2254 9/5	2254 9/981 KAPSOYA
	211829	2118293 JONAH KIPCHUMBA KIPLIMO	14141165796	73	903	9	772	61		79	1106	68	1246	98	1204 9/5	1204 9/923 KAPSOYA
	2118610	2118610 DANIEL NGUGI WAITARA	14141165663	65	874	225	3536	20		254	3556	243	3402	250	3500 PL1	3500 PLT 968 KAPSOYA
	2131070	2131070 LEAH CHEPKORIR	14140380396	96	1313	27	365	435		467	6538	497	8269	473	6622 PL1	6622 PLT NO 40 KAPSOYA
	213259	2132599 ISAAC KIPLIMO SANG	14140184848	40	516	26	389	35		44	616	4	616	20	700 KA	700 KAPSOYA 945
	2136176	2136176 JENIFER JEMUTAI ROTICH	14140026577	107	1574	106	1662	93		110	1540	116	1624	128	1792 PL1	1792 PLT 9/992 KAPSOYA
	214420	2144204 LEAH JEMELI MALOT	14140380503	77	996	29	814	49		79	1106	80	1120	80	1120 KA	1120 KAPSOYA HSE 1 PLT 91991
	214420	2144207 LEAH JEMELI MALOT	14140380354	78	1052	49	622	91	1984	86	1372	82	1148	83	1162 PL1	1162 PLT 9/991 KAPSOYA
	2145090	2145090 HARED HASSAN ADAN	14140380461	113	1472	86	1317	101	1478	120	1680	120	1680	129	1806 PLC	1806 PLOT 9/991 KAPSOYA EST(MAIN)
	215228	2152289 EUNICE JEPTUM CHELAL	14140380412	54	703	13	278	20	353	65	910	99	924	73	1022 PL1	1022 PLT 9/1746 KAPSOYA SRS
	215588	2155880 JOHN NYABUTO MOSE	14140380305	25	341	28	402	27	406	24	336	32	448	30	420 .PL	420 .PLT 9/1745 KAPSOYA
	215588.	2155882 JOHN NYABUTO MOSE	14140380404	40	424	22	999	16	287	70	086	92	1064	71	994 PLT	994 PLT.9/1749 KAPSOYA
	215643.	2156432 JENIFER JEMUTAI ROTICH	14140380453	83	1264	103	1328	121	2210	129	1806	137	1918	130	1820 PL ⁷	1820 PLT 9 1744 KAPSOYA
	215643	2156433 JENIFER JEMUTAI ROTICH	14140380339	19	325	27	434	21	363	23	322	23	322	24	336 91;	336 91744 KAPSOYA
	216520	2165209 EMILY CHELIMO KEMBOI	14140035743	230	3948	190	2833	173	2374	253	3542	244	3416	256	3584 PLī	3584 PLT NO 9/882 KAPSOYA
	218203	2182034 LEAH JEMELI MALOT	14141165689	116	1253	90	1247	77	1007	103	1442	86	1372	96	1344 B/9	1344 B/9/593/3 KAPSOYA
	218350	2183506 LEAH JEMELI MALOT	14140380263	122	1757	72	955	82		126	1764	131	1834	120	1680 B/9	1680 B/9/593/3 KAPSOYA
	218350	2183507 LEAH JEMELI MALOT	14141165739	65	910	99	924	73		54	703	13	278	20	353 B/g	353 B/9/593/3 KAPSOYA
	218350	2183508 LEAH JEMELI MALOT	14140380388	79	1106	79	1106	84		62	864	78	991	15	285 B/9	285 B/9/593/3 KAPSOYA
	218429.	2184291 RICHARD OKELO NYAMWALO	14141156407	148	2072	150	2100	150	2100	135	1923	119	1660	131	1866 B/9	1866 B/9/593/3 KAPSOYA
	218841	2188419 NAOMI MUMBI NGUGI	14141165754	23	322	23	322	24	336	19	325	27	434	21	363 9/€	363 9/639 KAPSOYA
	218925	2189250 STEPHEN KANGETHE KARANJA	14141165713	138	1932	134	1876	144	2016	107	1650	103	1459	127	1877 PLī	1877 PLT NO 9/643 ELGEYO BORDER RD
	219155	2191558 KEFA - VUHULA	14141165788	70	086	70	086	65	910	65	946	43	517	44	519 PL	519 PLT 9/594 KAPSOYA
	219156	2191560 KEFA - VUHULA	14140380545	32	448	31	434	32	448	17	461	20	196	23	443 9/5	443 9/594 KAPSOYA
	219273	2192734 JEREMIAH RONOH S/N 11874	14141165614	170	2380	165	2310	160	2240	154	2564	156	2205	143	2168 PLī	2168 PLT 9/610 KAPSOYA
	219473	2194739 JULIUS CHEMWENO	14141165705	9	840	9	840	69	996	16	291	54	989	44	547 9/5	547 9/598 KAPSOYA SHOP 3
	220354	2203540 WASHINGTON OCHIENG OITO	14141165648	326	4984	340	4760	321	4494	59	734	317	5369	20	518 9/€	518 9/636 KAPSOYA
	220822.	2208227 ISAAC KIPLIMO SANG	14140381550	290	4060	285	3990	302	4228	150	2250	161	2223	295	5938 PL7	5938 PLT BLOCK 9/631 KAPSOYA
	222247	2222476 KIPSANG DAVID NYOLMO	14140778417	290	4060	276	3864	286	4004	78	1105	126	1692	288	5347 P/r	5347 P/N B9 /624 KAPSOYA ESTATE
	222518	2225184 JANE CHELAGAT LIMO	14105806401	244	3416	246	3444	250	3500	244	4791	244	4791	244	4791 P/r	4791 P/N 1554 KAPSOYA
	223009	2230096 FLORENCE JEPKEMEI KOSGEI	14141079831	9/	1064	80	1120	82	1148	81	1038	81	1038	20)Td 689	689 PLOT 934 KAPSOYA
	223107	2231074 SALINA JELIMO CHEBETT	14141165531	156	2184	148	2072	147	2058	95	2336	135	3040	106	2356 BLI	2356 BLK9/578 KAPSOYA
	2235500	2235506 JAMES KARANJA MUHUHU	14141165564	180	2520	178	2492	186	2604	156	2306	181	2796	162	2651 ISC	2651 ISOLATED KAPSOYA
	223758	2237589 CAROLINE JERONO CHEBOROR	14141165440	82	1148	9	840	73	1022	46	767	46	767	71	1079 B1	1079 B1 9-1599 KAPSOYA
	223874	2238749 DAVID KIPTARUS BIWOTT	14141165523	71	994	80	1120	79	1106	77	1045	24	456	78	1134 P/I	1134 P/NO B9/1603 KAPSOYA
	224609	2246094 EDWARD BARARE SIMBA	14141165630	91	1274	66	1386	86	1372	90	1779	0	134	26	1737 160	1737 1604 KAPSOYA
	224711	2247116 FLORENCE KWAMBOKA NYAMETE 14141165432	14141165432	160	2240	161	2254	165		93	1539	66	1754	163	2724 89/	2724 89/583 KAPSOYA
	0000	יס מיוייט וייז אמו אי טו ודיטו ווי אי ניסטא כיכ	11110550510	000	2770	170	7,000	L	1		0	,		00		

2249339 CHARLES KEMBOI TOROITICH	14141165416	212	2010	202		l	l		l					
2253426 SIMON GITHUA MATIA	14140381584	28	392	20	280	23	322	19	367	22	440	22	339 P	339 PLT 9/579 KAPSOYA
2253558 BRIGID JEROTICH KIPRONO	14141165457	64	968	99	924	99	924	89	942	63	857	09	709 P	709 PLT 9/579 KA[SOYA
2264133 PAUL KIPROP KANDIE	14104595385	39	546	45	630	51	714	49	269	27	373	35	400 P	400 PLT/591 KAPSOYA
2265623 DANIEL CHESEREK BARTONJO	14140560427	170	2380	196	2744	189	2646	173	2666	0	134	162	2285 P	2285 PLT/591 KAPSOYA
WAMWAYI	14141165762	119	1666	110	1540	113	1582	99	1123	108	1800	70	1028 P	1028 PLT 9/591 KAPSOYA
2272340 MOSES OWADE IMO	14141165697	25	320	28	392	30	420	26	411	31	439	24	359 P	359 PLT 9/591 KAPSOYA
2290558 ANNAH CHEBII TUM	14141165424	183	2562	189	2646	170	2380	135	1876	134	1856	179	2557 P	2557 PLT 9/593/6 KAPSOYA
2291334 ANNE WANGARI WAIHARO	14141165465	298	4172	290	4060	287	4018	291	4819	246	4075	265	4795 PLT	PLT 9/593/6 KAPSOYA
2297622 ROBERT KOECH BUTTIT	14140035362	66	1386	90	1260	93	1302	84	1151	82	1145	86	1530	1530 9/2174 KAPSOYA
2304780 L K KOTUT	14140778607	139	1946	121	1694	111	1554	120	1777	122	1627	105	1487	9/2074 KAPSOYA
2309797 ELIZEBA JEPLETING TARUS	14140035404	36	504	43	602	39	546	38	459	27	392	33	463	9/2174 KAPSOYA
2313559 JAMES NDUTU MUTISO	14140035073	80	1120	9/	1064	83	1162	82	1318	9/	1171	26	772	9/593 KAPSOYA HSE3
2316911 ALI SHEIKH HASSAN	14140035024	268	3752	176	2464	298	4172	69	698	209	3349	280	40619	4061 9/593 KAPSOYA
2316913 ALI SHEIKH HASSAN	14140035271	82	1148	99	924	2	086	89	952	89	952	61	854 B	854 B/593 KAPSOYA
2325544 MILGO MOHAMMED JAMAH	14140035032	11	154	10	140	13	182	12	168	14	196	17	238	238 9/593/ 4B KAPSOYA HSE3
2328072 SUSAN CHEPKEMEI KAPKAMA	14140035081	99	924	9	910	09	840	61	854	26	784	44	6169	616 9/593/ 4B KAPSOYA HSE 2
2328073 SUSAN CHEPKEMEI KAPKAMA	14140778359	10	140	9	84	6	126	12	301	12	301	2	201	201 9/593/ 4B KAPSOYA HSE7
2331479 PETER NG'ANG'A MBURU	14140778367	52	728	45	930	49	989	31	390	46	574	41	547 5	593/4B SHOP 7
2332653 VINCENT OCHIENG OOKO	14140035305	129	1806	137	1918	142	1988	83	1130	124	1840	114	1783 5	1783 593/4B SHOP 4
2336249 RUTH CHEMINING CHEMOBO	14141165473	40	260	42	588	45	630	38	498	47	209	42	601 B	601 BLK 9/707 KAPSOYA
2336250 GEORGINA KIMWATTAN	14141165515	87	1218	83	1162	94	1316	88	1214	94	1344	83	1267 P	PLT 1636 KAPSOYA
2336879 EMILY JEPTEPKENY CHIRCHIR	14140184830	129	1806	134	1876	117	1638	120	1888	119	1116	55	672 P	672 PLT 1636 KAPSOYA
2340400 PETER GACHIGI KAMAU	14140035149	126	1764	117	1638	112	1568	110	1571	108	1062	101	1369 Р	1369 P/NO 8145 KAPSOYA
2341857 ELIJAH KISABEI KIMISIK	14141165507	136	1904	148	2072	126	1764	101	1384	135	2005	128	2027 P	2027 PLT 9/1637 KAPSOYA
2341858 ELIJAH KISABEI KIMISIK	14141165499	91	1274	86	1372	110	1540	101	1384	100	1461	96	1241 P	1241 PLOT NO 9/1637 KAPSOYA
2346201 JOHN NYABUTO MOSE	04225860875	87	1218	87	1218	94	1316	80	1090	65	882	79	1197 B	B-9-1622 KAPSOYA
2358044 EDWARD KIPKEMBOI CHOGE	14140710626	120	1680	123	1722	134	1876	88	1287	100	1466	126	1699 Р	1699 P/N B9/1591 ELGEYO RD
A METE		14	196	12	168	11	154	17	306	18	287	12	248 P	248 P/N B9/1591 ELGEYO RD
2360960 ANNE WANGARI WAIHARO	01451167637	88	1232	84	1176	88	1232	46	669	82	1539	59	985 P	985 PLT NO 9/1614 KAPSOYA
2360962 ANNE WANGARI WAIHARO	14140381592	9	840	99	924	9	840	59	687	61	788	51	654 P	654 PLT NO 9/1614 KAPSOYA
2360964 ANNE WANGARI WAIHARO	14140035065	11	154	10	140	13	182	12	251	7	194	10	205 P	205 PLT NO 9/1614 KAPSOYA
2370016 NANCY CHEPKOECH RONO	14140035123	36	504	30	420	39	546	32	453	28	389	23	927 P	927 PLT 1610 KAPSOYA
2374038 CALEB WILLIAMOPATI	04225791963	46	644	41	574	40	260	30	421	39	527	15	301 P	301 PLT NO B9/1610 KAPSOYA
2376203 LILY JERUTO KANJI	14140025736	52	728	45	630	49	989	31	390	46	574	41	547 P	547 PLOT NO B/9/1587 KAPSOYA
2394467 LEAH CHEPKOSGEI NGENY	14140139990	26	784	54	756	59	826	57	740	57	757	44	511	1644 SITE AT SERVICE
2394469 CHARLES K. NG'ETICH S/N 15971	14140140154	87	1218	87	1218	94	1316	80	1090	65	885	79	1197 P	PLOT B/1567 KAPSOYA
2399376 JARED NYANGERI MONGONI	14140139933	20	700	53	742	42	288	41	523	48	593	29	426 B	426 B9/1576 KAPSOYA SQ2
2400640 HELLEN ROSELINE LUNG'AHO	01451209884	14	196	12	168	11	154	17	306	18	287	12	248 B	248 BLK 9/1563 KAPSOYA
2404011 DANIEL MUDANYI OCHENJA	14140025454	22	308	23	322	29	406	33	460	30	407	19	280 B	BLK 9/1563 KAPSOYA
2407085 DENNIS KIPRONO LANGAT	14140025504	30	420	26	364	19	592	19	390	28	510	29	482	1586 KAPSOYA
2407086 ANNE WANGARI WAIHARO	14140025777	100	1400	96	1344	94	1316	94	1571	95	1747	90	1253	1586 KAPSOYA
2407087 ANNE WANGARI WAIHARO	14140025603	80	1120	81	1134	87	1218	77	1356	63	1061	7	217	1586 KAPSOYA
2407088 ANNE WANGARI WAIHARO	14140025694	23	322	28	392	34	476	23	455	17	341	20	374	1586 KAPSOYA
2407089 ANNE WANGARI WAIHARO	14104133153	47	658	53	742	49	989	37	547	44	725	47	697 P	PLT B9/1590 ELGEYO/KAPSOYA/HSE
2407091 ANNE WANGARI WAIHARO	14140025678	59	826	64	968	64	968	44	725	26	843	53	742 P	742 PLOT B9/1590 ELGEYO/KAPSOYA
2407093 ANNE WANGARI WAIHARO	14140025611	46	644	46	644	51	714	45	739	40	614	44	639 P	639 PLT 9/1590 KAPSOYA
2407095 ANNE WANGARI WAIHARO	14140025520	90	1260	03	000									
			1	5	1302	92	1330	89	1159	73	1155	100	1598	1598 1590 ELGEYO

	_	2409701 NAU	2409701 NAOM JEPKOGEI LEMISO	14140139818	65	910	99	924	29	826	67	884	48	617	72	1073 P	1073 PLT.9/1642 KAPSOYA
		2412657 CH	2412657 CHARLES K LAGAT	14140381451	66	1386	94	1316	104	1456	78	1321	79	1259	86	1561 9,	9/1602 KAPSOYA HSE 1
		2426737 DAI	2426737 DANIEL CHESIR ROTICH	14140025488	39	546	40	260	36	504	38	801	42	705	45	734 B	BLK 9/1643 KAPSOYA HSE 2
		2437241 NAI	2437241 NANCY CHEROBON ROP	14140025652	25	320	30	420	50	406	27	465	22	440	20	398	9/1655 KAPSOYA
		2437243 NAI	2437243 NANCY CHEROBON ROP	14140025751	09	840	61	854	29	938	52	786	28	166	40	672 9,	9/1655 KAPSOYA
		2460513 MO	2460513 MOSES OWADE IMO	14140025470	117	1638	120	1680	110	1540	116	1589	116	1594	105	1430 P	1430 PLOT NO.1556 KAPSOYA
		2462439 KW.	2462439 KWAKE MUTISYA KASINGA	01451038978	69	996	75	1050	20	086	65	206	28	780	28	780 P	780 P/N B901539 KAPSOYA
		2462440 JAC	2462440 JACOB KIPSANG KOSGEI	14140025629	88	1232	88	1232	96	1344	82	1041	72	1001	26	751 1	1544 KAPSOYA
		2462441 DAI	2462441 DANIEL KIPLA GAT TARUS	14140025421	66	1386	100	1400	91	1274	06	1198	75	1050	21	351 1:	1543 KAPSOYA
		2462442 PAT	2462442 PATRICK KIPYEGO METTO	14140025595	109	1526	116	1624	86	1372	87	1440	101	1870	88	1560 1	1560 1543 KAPSOYA
		2467700 BEN	2467700 BENJAMIN SAMIKWA KEMOI	14140025769	107	1498	100	1400	94	1316	82	1437	102	1686	78	1205 1	1543 KAPSOYA
		2472241 JOHN - MAIYO	HN - MAIYO	14140140063	219	3066	221	3094	216	3024	119	1715	197	2206	506	3806 B	3806 BLK 1547 KAPSOYA
		2472245 EST	2472245 ESTHER JEPKEMEI KIPLAGAT	14140025710	99	924	29	938	59	826	62	741	65	852	29	423 B	BLK 9/1547 KAPSOYA
		2472247 JAN	2472247 JANE CHERONO MAIYO	14140140204	99	784	22	770	52	728	45	260	23	443	59	899 B	BLK 9/1547 KAPSOYA
		2473447 FLO	2473447 FLORENCE KWAMBOKA NYAMET¶ 14140710667	14140710667	298	8372	524	7336	532	7448	20	380		11625	209	4277 B	BLK 9/1547 KAPSOYA
		2473448 FLO	2473448 FLORENCE KWAMBOKA NYAMET¶ 14140025553	14140025553	86	1372	96	1344	93	1302	92	1506	06	1355	71	1083 P	PLT.9/1565 KAPSOYA
20	8203	2352360 EV£	2352360 EVANS ORENGE ONDERI	01451064396	46	644	29	826	26	784	51	624	29	785	53	742 P	P/N 1619 KAPSOYA
		711317 VIO	711317 VIOLET CHEPTAI KIMKUNG	14141165481	89	918	29	923	29	817	29	938	89	952	69	966 A	ATKAPSOYA
		711714 DA\	711714 DAVID NDEGWA MAINA	14140035552	174	2700	73	1022	71	876	186	2604	189	2646	185	2590 P	2590 PLT NO 1706 KAPSOYA
		711943 SAN	711943 SAMUEL K KAMAU	01451086746	09	790	64	853	29	923	63	882	9	840	64	896	9965 KAPSOYA
		724080 MIC	724080 MICHAEL KIGEN CHEPKONGA	14140025561	232	3653	274	4665	428	7652	433	6062	451	6314	457	6398 B	6398 BLK 9 965 KAPSOYA
		724088 PH	724088 PHANUEL - KIPLAGAT	22119671190	57	740	57	757	44	511	26	784	54	756	59	826 B	B9/1212 KAPSOYA
		724097 ERI	724097 ERIDADI O ONJORO	14140144198	51	628	65	882	54	736	61	854	51	714	26	784 1	1207 BLK 9 KAPSOYA
		724101 JAN	724101 JANE CHERUTO MUTAI	01451049223	68	1287	100	1466	126	1699	120	1680	123	1722	134	1876 K	1876 KAPSOYA SITE SERVICE PLOT 1468
		732212 EDV	732212 EDWARD KIPRONO BUSIENEI	14140035479	109	1614	77	1080	102	1340	101	1414	92	1288	90	1260 K	1260 KAPSOYA P/N 9/1407
		732534 ERI	732534 ERIDADI O ONJORO	14140144156	101	1403	91	1313	101	1403	109	1526	112	1568	103	1442 P	1442 PLOT NO. 1471 BLOCK 9
		733900 JAN	733900 JANE CHERONO MAIYO	14140035800	9	195	13	592	6	220	17	238	14	196	15	210 13	210 1384 KAPSOYA
		734836 CA1	734836 CATHERINE WAMBOI	14140025801	89	716	02	761	8	891	8	1120	8	1120	83	1162 P	PLT 1738/9 KAPSOYA ESTATE
		735535 STE	735535 STEPHEN ACHESA MALECHE.	14140025496	97	1257	90	1251	86	1424	93	1302	103	1442	86	1372 P	1372 PLOT 9/1720 KAPSOYA EST(SERVANT)
		2024747 AN	2024747 ANDREW BRIAN WAMBULWA	14140144032	22	348	20	318	25	441	23	322	26	364	22	308 P	PLT 1381 KAPSOYA
		2032747 CLE	2032747 CLEMENT KIPTUM KOMEN	14140025587	131	1770	116	1666	168	2578	140	1960	143	2002	131	1834 P	P/NO 1297 KAPSOYA
		2033903 AN	2033903 ANDREW BRIAN WAMBULWA	14140035438	150	2250	161	2223	295	2938	290	4060	285	3990	302	4228 1	4228 1289 KAPSOYA
		2056177 PAL	2056177 PAUL MBURU NGETHE	14140025538	61	826	61	826	126	1624	120	1680	128	1792	125	1750 P	1750 P /N 1685 KAPSOYA EST
		2062301 JAN	2062301 JANE WATHIRA WACHI	14140035776	82	1217	82	1041	120	2193	123	1722	119	1666	128	1792 P	1792 PLT 9/975 KAPSOYA
		2069615 JOHN - MAIYO	IN - MAIYO	14140035693	77	1091	72	1006	62	727	77	1078	76	1064	79	1106 B	1106 BLK 9/988 KAPSOYA
21 2	28271	2071619 MIC	2071619 MICHAEL KIMELI CHUMO	14140143810	65	842	20	601	100	1461	113	1582	109	1526	110	1540 B	1540 <mark> B9/1761/KAPSOYA ESTATE</mark>
		2074103 JOA	2074103 JOAB SAMUEL OTIENO KAMUMB 14140035339	14140035339	22	350	24	378	28	402	25	350	30	420	30	420 B	420 B9/1761/KAPSOYA ESTATE
		2095123 ISS	2095123 ISSACK ADAN MOHAMED	14140025637	139	1812	138	2018	159	2482	156	2184	180	2520	179	2506 9,	2506 9/1696 KAPSOYA
		2097265 ISS	2097265 ISSACK ADAN MOHAMED	14140025785	26	256	29	411	29	426	29	406	27	378	23	322 P	PLT 979 KAPSOYA.
		2125119 JOS	2125119 JOSEPH NYARIKI MASIMBA	14140143851	104	1370	111	1587	115	1708	129	1806	125	1750	130	1820 P	1820 PLOT NO. B/9/948 KAPSOYA
		2166233 DA\	2166233 DAVID KIPKORIR . M. MAIZS	14140025793	45	565	44	623	32	483	49	989	43	602	20	700 P	700 PLT NO 9/882 KAPSOYA
		2218133 ALE	2218133 ALEX KIPROTICH CHERUIYOT	14140025413	126	1764	125	1750	128	1792	118	2868	100	2270	88	1981 P.	P/N KAPSOYA ESTATE
		2231071 CHR	CHRISTOPHER KIBIWOT KEMBOI	14140025439	59	826	53	742	26	784	43	709	63	996	57	833 B	BLK9/578 KAPSOYA
		2253684 COI	2253684 CORNELIUS KIPKEMEI KURERE	14140710618	46	644	40	260	45	630	36	501	44	280	38	459 9,	9/579 KAPSOYA
		2261897 PIU.	2261897 PIUS TUM KIPKEMBOI	01451039018	116	1624	121	1694	130	1820	128	2354	108	1800	104	1582 P	PLT NO B /9/1616 KAPSOYA
		2262134 DO	2262134 DORCAS JEPKEMBOI KANDIE	14140909640	93	1302	103	1442	86	1372	97	1257	8	1251	86	1424 P	PLT 9/591 KAPSOYA
		2262135 DO	2262135 DORCAS JEPKEMBOI KANDIE	14140025579	167	2338	159	2226	170	2380	101	1354	156	2205	110		1476 PLT/591 KAPSOYA
		2323467 KIP	2323467 KIPCHIRCHIR BARMASAI ROTICH		09	840	99	924	09	840	61	788	51	654	65	1137 9,	9/593/ 4B KAPSOYA HSE A
		2345585 DAI	2345585 DANIELKIPKOSGEI SERONEY	14140560294	138	1932	131	1834	143	2002	113	1675	134	2161	91	1389 P	1389 PLOT 9/1625 KAPSOYA

	234558t	2343300 AIV GELA - CHELAGA I	770001141141	2												
	2456166	2456166 JULIUS KIPSANG KOECH	14140143885	19	592	20	280	19	592	18	319	17	297	16	269 PL(PLOT NO 1556 KAPSOYA
	715647	715647 PRISILLA WAIRIMU	14140035487	87	1115	81	1104	110	1626	111	1554	113	1582	119	1666 174	1740 KAPSOYA ESTATE
	724137	724137 FRANCIS MUKUINGURU	14140035669	185	2883	0	134	165	2282	198	2772	187	2618	182	2548 573	573 ELGEYO RD
	724138	724138 AMSELMO THUO WAIGANJO	14140035768	36	478	38	514	49	229	41	574	43	602	52	728 PL	PLT 1511/9 KAPSOYA
	734565	734569 GEORGE OKUMU ODERA	14140381428	26	208	29	982	25	724	51	714	25	728	26	784 P/I	P/N B9/1725 KAPSOYA
	2062885	2062889 GEOFFREY KIPKEMOI KIRUI	01451122822	106	1913	92	1137	122	2055	130	1820	129	1806	116	1624 ISC	ISOLATED PLOT KAPSOYA
	2174733	2174733 JOYCE JEROTICH MUTTAI	14140778334	132	1954	130	1836	139	1894	145	2030	131	1834	156	2184 12	1278 KAPSOYA
	2332977	WESLEY KIPNGETICH	14140035727	24	336	31	434	23	322	22	355	9	180	4	156 PL	PLT B/1629 KAPSOYA
	2244295	2244295 JOEL KIBOR KIPKEMBOI	14107583354	55	770	59	826	49	989	51	571	43	544	42	548 16	548 1604 KAPSOYA
	712095	712099 LIVINGSTONE A MIYA	22119719023	130	1751	175	2699	95	1403	236	3304	241	3374	238	3332 B/9	B/9/1370 KAPSOYA
	712400	712400 PATRICK KIPROP SANG	22119761637	105	1420	110	1643	09	818	151	2114	156	2184	153	2142 AT	AT KAPSOYA
	715548	715548 JOYCE AMULE MUKA	22119718892	70	668	62	834	48	628	73	1022	74	1036	71	994 148	1485 KAPSOYA ESTATE HSE 3
	715566	715566 IRENE CHEPKOSGEI KIPTOON	22119761595	108	1640	77	1026	101	1411	112	1568	101	1414	105	1470 14	1470 1485 KAPSOYA ESTATE HSE2
	715632	715632 ELIZABETH NYALUIT TUDI	22119761272	29	814	29	849	33	426	69	996	74	1036	75	1050 148	1485 KAPSOYA ESTATE HSE 1
	715634	715634 LINET NYAMOITA ONKUNDI	04225859968	61	719	55	720	0	134	29	938	69	996	09	840 B9,	B9/1723 KAPSOYA
	715646	715646 ANNA CHELAGAT BIRECH	22119597882	133	1750	137	2032	83	1760	133	1862	149	2086	151		1740 KAPSOYA ESTATE
	715659	715659 GEOFFREY NJUGUNA KIARIE	22119719171	86	1576	98	1353	68	1397	109	1526	102	1428	94	1316 PL(PLOT NO. 1304-KAPSOYA
	715660	715660 ERICK NAIBEI	22119719239	65	206	28	780	28	780	69	996	75	1050	70	980 PL(PLOT NO. 1304-KAPSOYA
	715664	715664 PAULINA JEMELI KOMEN	22119761546	82	1041	72	1001	26	751	88	1232	88	1232	96	1344 BLI	BLK 9/2664 KAPSOYA
	715675	715675 KENNEDY KIPLIMO KILEL	22119597957	06	1198	75	1050	21	351	66	1386	100	1400	91	1274 PL ⁻	PLT B9/1684 KAPSOYA
	715676	715676 DAVID OCHIENG MBORI	22119718934	82	1048	133	2006	142	2187	159	2226	163	2282	161	2254 168	1684 KAPSOYA
	715685	715689 DAVID A.K MANYANG	22119697500	116	1537	147	2236	91	1337	150	2100	156	2184	168	2352 9/:	2352 9/1710 KAPSOYA
22 22336		715699 ROSE NELIMA MAKOKHA	22119761389	123	1693	154	2347	40	544	156	2184	153	2142	151	2114 9/:	2114 9/1710 KAPSOYA
	715700	715700 ELKANA KIMUTAI CHEPSAIGUT	22119761447	208	3607	206	3609	168	2377	230	3220	223	3122	239	3346 9/:	3346 <mark>9/1710</mark> KAPSOYA
	715707	715707 W K C TOLGOS	22119719056	22	655	88	923	26	775	88	1246	66	1386	97	1358 00:	1358 009/1293 KAPSOYA
	730783	730783 ALI ABDALLA YEK	22119719205	29	905	6	1554	126	2024	129	1806	127	1778	132	1848 PL:	1848 PLOT NO 9/495 KAPSOYA
	730858	730858 SOLOMON NZULA MUTUA	22119597932	141	1964	132	1841	110	1520	149	2086	143	2002	152	2128 BLF	BLK 9/1728 BORDER ELGEYO HSE 2
	731495	731495 MAGDALENA JEPKOECH CHESAN 22120373166	22120373166	77	926	101	1109	75	928	106	1484	113	1582	110	1540 PL	1540 PLT 9/1390 KAPSOYA.
	732056	732056 LUCY KITUI CHEMTAI	22119597981	148	2250	36	206	115	1568	148	2072	145	2030	156	2184 PL	PLT NO 9/575 KAPSOYA
	732284	732284 ELIJAH KOECH CHEBOTIBIN	22119719155	131	2244	82	1335	77	1014	135	1890	130	1820	131	1834 PL(PLOT 9/1406 KAPSOYA
	732307	732307 ALBINA JEMUTAI CHELANGA	22120373018	140	2127	108	1594	28	784	179	2506	181	2534	186	2604 ML	2604 MUNYAKA BLK 9 1410
	732915	732915 JOHN KEMBOI KIBOWEN	22119718884	94	1233	151	2302	82	1186	143	2002	150	2100	157	2198 PL	2198 PLOT NO B/1419 KAPSOYA
	733454	733454 ESTHER JEROTICH CHEPKIYENG	22119697369	8	213	18	310	13	221	12	168	12	168	16	224 P/I	P/N 1400 KAPSOYA
	733663	733663 MOSES KIPLAGAT KETER	22119718975	69	869	209	3349	280	4061	268	3752	176	2464	298	4172 9/1	9/1413 KAPSOYA
	733708	733708 WILFRED K BIY	22119597890	127	1722	168	2583	88	1302	198	2772	189	2646	171	2394 PL ⁻	PLT B9/1399 KAPSOYA
	733772	733772 SAMUEL KIPKEMOI KOSGEI	01451080103	89	1451	128	2103	97	1478	121	1694	123	1722	130	1820 PL	1820 PLT 1398 KAPSOYA
	733773	733773 SAMUEL KIPKEMOI KOSGEI	01451080095	33	452	26	357	105	1284	110	1540	113	1582	86	1372 PL	PLT 1398 KAPSOYA
	734596	734596 STEPHEN ONYANGO OJANGA	22119719163	227	3224	0	134	180	2781	250	3500	256	3584	263	3682 PL(PLOT 9/1730 KAPSOYA
	734707	734707 DIVINAH JEROP KEINO	22119761413	31	422	5	184	4	175	30	420	30	420	34	476 P/I	P/N 9/1734 KAPSOYA
	735409	735409 SAMUEL KIPKEMOI KOSGEI	01451166332	45	739	94	1543	81	1262	66	1386	83	1162	85	1190 BLF	BLK 9/1647 KAPSOYA
	735425	735425 ESTHER J CHEPKIYENG	22119697252	99	807	61	824	40	518	20	200	53	742	62	868 PL	PLT.B9/1716 MIYAKA RD.KAPSOYA
	735514	735514 DAVID N N KITONGA	01451080111	34	591	51	752	61	905	65	910	26	784	59	826 AT	826 AT KAPSOYA
	735791	735791 MAGDALENA JEPKOECH CHESAN 22120373182	22120373182	173	2666	0	134	162	2285	170	2380	196	2744	189	2646 PL ⁻	PLT B9/373 KAPSOYA
	736011	736011 MAGDALENA JEPKOECH CHESAN (22120373208	22120373208	44	200	26	737	0	134	9	840	29	826	22	770 PL	PLT B9/373 KAPSOYA SHOP 4
	2016016	2016016 DAVID KIPYEGON KURGAT	22119719072	54	638	44	547	16	291	61	854	57	798	64	896 PL	PLOT B/1700 KAPSOYA (SERVANTA)
	2039407	2039407 MANYANG MAKUR MAGOL	22119719213	219	3903	75	1127	166	2354	240	3360	246	3444	243	3402 9/1	9/1225 KAPSOYA
	2039597	2039597 PAMELLAH SCHOLASTICA ORWA	22119719106	167	2370	152	2172	,	7000	007	111	,00	0000	1	010	***************************************
_					0	123	7772	182	4T97	130	7//7	137	2688	197	2/58 9/5	9/9/8 KAPSUTA

	2041/40 [[[[] 00] [[[] 00] 00] [[]		00710 / 01777	2											
	2043837	GODSON OWENDHO GUMBA	22119597775	33	385	10	223	20	361	28	392	16	224	31	434 B 9/957 KAPSOYA
	2056593	2056593 PAUL KIPSANG MENGECH	22119719015	75	1126	89	941	133	1813	139	1946	134	1876	142	1988 AT KAPSOYA
	2058184	2058184 MARGARET JEPTUM MAIYO	22119597676	68	1176	104	1639	103	1613	100	1400	103	1442	108	1512 BLOCK 9/1221 KAPSOYA ESTATE
	2073050	2073050 BENARD MARITIM KIBER	22119761587	92	1219	95	1380	54	715	102	1428	26	1358	66	1386 B9/1761/KAPSOYA ESTATE
	2074096	2074096 FATUMA JEBET FARAJ	22119597965	84	1088	37	463	38	477	93	1302	89	1246	92	1064 B9/1761/KAPSOYA ESTATE
	2076245	2076245 HENRY KIPSANG AMDANY	22119597742	20	821	59	936	44	547	43	602	47	658	26	784 PLT 9/2665 KAPSOYA
	2079123	2079123 LYDIA KORIR	22119597908	142	1962	286	4681	144	2046	321	4494	329	4606	316	4424 ELD MUN/BLOCK 9/1015
	2089059	2089059 CLAUDE KIRWA BUSIENEY	22120372994	132	1766	244	4269	136	2089	249	3486	253	3542	267	3738 P/NO 1692 KAPSOYA
	2107997	2107997 REBECCA JEROTICH KIPKORIR	22119761397	114	1148	86	1391	33	475	121	1694	129	1806	106	1484 P/NO B/9/1219 KAPSOYA
	2111001	2111001 JOSEPH CHEPTOO KENDAGOR	22119761322	177	2731	96	1420	90	1187	189	2646	195	2730	196	2744 PLT NO. 1291 KAPSOYA
	2111928	2111928 DORCAS - CHEPKOSKEI	22119598013	65	946	43	517	44	519	70	980	70	086	65	910 P/N B9/1204 KAPSOYA
	2112409	2112409 KIPRUTO KIPTOO	22119597825	17	461	20	196	23	443	32	448	31	434	32	448 NEXT TO KAPSOYA BAPTIST CHURCH
	2135436	2135436 EVANS LUYALI KHADAMBI	22120373075	46	609	99	820	120	1656	151	2114	166	2324	163	2282 PLT 9/992 KAPSOYA /HSE
	2151462	ROSEMARY OSORO JEPKETER	22119598021	107	1604	171	2422	271	3955	588	4046	291	4074	290	4060 PLT 8/1745 KAPSOYA
	2152314	2152314 PAULINE - KWAMBAI	22119719064	62	864	78	991	15	285	79	1106	79	1106	84	1176 PLT 8/1745 KAPSOYA
	2156380	2156380 WILLIAM MBURU MACHARIA	22119665374	82	1115	81	824	6	1284	06	1260	81	1134	66	1386 PLT 9/1749 KABSOYA
	2160317	2160317 ERNEST KORIR OLBARA	22119719148	30	376	21	333	19	320	34	476	33	546	38	532 KAP/9/1008 KAPSOYA
	2167615	2167615 PETER WAFULA ICHUDI	22119718959	30	340	18	294	21	341	33	462	39	546	41	574 PLT NO 9/882 KAPSOYA
	2174384	2174384 PAULINE - KWAMBAI	22119718983	44	525	40	305	26	296	59	826	52	728	61	854 1278 KAPSOYA
	2184669	2184669 TIMOTHY KOSGEI KIPYAGAN	14104590295	24	336	32	448	30	420	25	341	28	402	27	406 B/9/593/3 HSE 14A KAPSOYA
	2187090	2187090 EMMA DINAH MAKOKHA	22119665325	129	1806	137	1918	130	1820	83	1264	103	1328	121	2210 PLOT 9/639 KAPSOYA
	2202023	2202023 FESTUS ANYONA OKERO	22119697310	79	1106	99	924	9/	1064	54	209	71	686	81	1148 PLOT 9/KAPSOYA
	2206571	2206571 LIVINGSTONE A MIYA	22119718918	99	924	09	840	53	742	22	430	9	917	62	875 PLT 566 BLK 9 KAPSOYA
	2213551	2213551 KIPLANGAT TERER	22119606139	230	3220	231	3234	237	3318	175	2553	101	1543	224	3914 PLT BLOCK 9/631 KAPSOYA
	2222135	2222135 BENSON SAKWA WAKHULE	22120373174	09	840	20	700	55	770	56	483	24	422	53	762 PLT 628 BLK 9 KAPSOYA
	2222932	BENSON SAKWA WAKHULE	22120373216	26	364	18	252	20	280	2	247	14	436	25	659 P/N B9/624 KAPSOYA ESTATE
	2222933	2222933 BENSON SAKWA WAKHULE	22120373190	201	2814	200	2800	190	2660	100	1526	193	2948	157	2413 P/N B9/624 KAPSOYA ESTATE
	2254746	2254746 EVANS NYAGECHI NYANG AYA	22120373091	25	770	51	714	53	742	30	449	30	449	28	773 KAPSOYA SITE & SERVICE B9/590
	2275231	2275231 ABRAHAM KPTARUS KIPTOO	22119718942	254	3556	243	3402	253	3542	40	979	7	232	203	4278 P/N 9/1621 ELGEYO BORDER
	2275837	2275837 CLAUDE KIRWA BUSIENEY	22120372952	30	420	30	420	34	476	31	422	2	184	4	175 PLOT NO.1619
	2275838	2275838 CLAUDE KIRWA BUSIENEY	22120372978	39	546	43	602	32	448	32	563	32	563	40	613 PLT B9/593 KAPSOYA
	2314511	2314511 GEOFFEY RONOH MOTELIN	22119598005	29	826	52	728	26	784	53	789	49	969	51	687 9/593 KAPSOYA HSE 5
	2316089	2316089 KISILU MASHTAKH KITAINGE	22120372911	149	2086	143	2002	154	2156	115	1717	105	1384	147	2162 9/593 B KAPSOYA
	2348091	2348091 ROSEMARY AMAKUNDU OYALO	22119597866	54	756	53	742	53	742	51	499	30	421	40	537 P/N B9 1622 KAPSOYA
	2351292	2351292 DAVID HANNINGTON ISANDA	22119665242	61	854	51	714	26	784	51	628	65	882	54	736 P/N 1619 KAPSOUA
	2368101	2368101 RUTH JEPCHUMBA KOMEN	22119761264	99	924	65	910	9	840	65	842	61	260	44	505 P/N 9/1588 KAPSOYA
	2375793	2375793 KIBIWOT SUMBAEI GILBERT	22119697245	4	26	3	42	7	86	4	171	4	171	3	162 PLT B9/1605 KAPSOYA
	2379780	2379780 WILLIAM MBURU MACHARIA	22119697633	24	336	31	434	23	322	22	355	9	180	4	156 B 9/1609 KAPSOYA
	2379781	JOSEPHINE AUMA AGURE	22119665572	48	672	40	260	45	630	18	307	44	555	24	371 PLT E M BLOCK 9/1598 KAPS
	2379783	2379783 WILLIAM MBURU MACHARIA	22119665408	99	924	63	882	69	996	64	836	62	835	09	865 B 9/1606 KAPSOYA
	2382157	2382157 EVANS NYAGECHI NYANG AYA	22120373117	155	2170	143	2002	163	2282	126	1865	152	2475	117	1829 B9/1606 KAPSOYA
	2387854	2387854 MARY CHEPKEMBOI LAGAT S/N 4	4 22119718868	138	1932	131	1834	143	2002	113	1675	134	2161	91	1389 P/NO B/1569 KAPSOYA
	2392487	2392487 JOHN KIPRONO CHERUIYOT	22119697385	33	462	30	420	30	420	0	134	29	456	32	418 1644 SITE AT SERVICE
	2415167	2415167 ALICE CHEPEKITUI NAMTALA	22119761470	49	989	46	644	28	812	53	789	31	490	29	440 9/1602 KAPSOYA SQ 2
	2415749	2415749 MARY NALIAKA MUNIAFU	22119761306	20	700	51	714	92	784	41	669	49	721	49	698 BLK 9/1639 KAPSOYA ESTATE
	2423603	2423603 NADHIFA SHARIF KANGETHE	22120373083	69	996	75	1050	61	854	54	834	99	932	61	904 B9/1646 KAPSOYA SITE AN SERVICES
	2423604	2423604 NADHIFA SHARIF KANGETHE	22120373109	28	392	33	462	38	532	34	552	40	899	34	591 BLK 9/1643 KAPSOYA HSE B
	2426811	2426811 GILBERT KIPRUTO OLBARA	22119697526	30	420	31	434	38	532	25	470	18	350	26	430 9/1634 KAPSOYA
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Appendix B: Power Consumption before ring fencing

Name of FDR	Input	Secondary	Energy Sales of the	Revenue Collected
	Energy	Distribution TX	Transformer within	from the Transformer
	(kWh)	No.	Project Area	within the Project Area
			(kWh)	(Ksh.)
Kapsoya Ex	325589	2230	7414	109194
Eldoret Industrial		21116	12544	213219
industrial		21198	9660	166809
		21332	13687	229273
		9215	6834	95676
		9292	12551	189238
		21058	13237	191478
		9217	9630	103637
		21333	12069	
		22237	10381	168966
		22334	9935	149995
		22335	18549	147615
		21149	4519	274036
		22538	12310	63490
				193502
		21831	9737	148701
		23618	15355	233760
		21207	18439	263805
		28110	5551	77714
		28109	8564	119896
		8203	5395	79969
		28271	9380	133887
		22336	19309	277632
		TOTAL	245,050	3,631,492

Appendix C: Power Consumption after ring fencing

Name of FDR	Input	Secondary	Measured Energy of	Energy Sales of the	Revenue Collected
	Energy	Distribution	Transformers within Project	Transformer within	from the
	(kWh)	TX No.	Area	Project Area	Transformer
			(kWh)	(kWh)	within the Project
					Area
					(Ksh.)
Kapsoya Ex	325155	2230	9221	9194	131225
Eldoret Industrial		21116	16118	16053	224742
madem		21198	12131	12067	168938
		21332	15697	15666	221526
		9215	6083	6064	85336
		9292	21001	20097	284044
		21058	19431	19426	271964
		9217	12797	12756	180130
		21333	10943	10937	166900
		22237	11138	11114	161341
		22334	14893	14870	208180
		22335	21467	21438	305776
		21149	3751	3728	56845
		22538	17547	17522	245308
		21831	13345	13303	186242
		23618	20471	20431	286034
		21207	17823	17808	275215
		28110	4798	4792	68651
		28109	6543	6531	104915
		8203	6501	6496	93613
		28271	10856	10845	158961
		22336	23336	23327	334758
		TOTAL	295891	294665	4220644

Appendix D: Transformer Loading

No.	Secondary	Rating of Sec Dist.	Loading of the	Loading Area
	Distribution	Transformer	Sec Dist.	
	TX No.	(kVA)	Transformer	
			(kVA)	
	22130	315	212	RM PATEL
	21116	200	150	SPECIAL SCH
	21198	200	157	SOS
	21332	315	211	KENYA RE
	9215	315	91	KAPSOYA SCH
	9292	200	108	RAYMONDS
	21058	50	69	METROLOGICAL
	9217	315	322	ET LIMO
	21333	315	281	BAPTIST
	22237	100	92	ELDOVILLE
	22334	200	130	MARIAKANI
	21149	315	270	SITE & SERVICE
	22538	100	9	NGURUNGA
	21831	200	201	GREENWAYS
	23618	50	98	KONA KUBWA
	21207	315	300	KAPSOYA VALLEY
	28110	200	181	JUNIORATE
	28109	200	83	IMMACULATE
	8203	50	133	SISTERS SCH
	28271	50	6	ANAN
	22336	100	94	CYRUS
	TOTAL	4080	3026	