

# REPUBLIC OF KENYA

# PHYSICAL INFRASTRUCTURE SECTOR MTEF REPORT 2011/12 – 2013/14



4<sup>th</sup> January 2011

# TABLE OF CONTENTS

ACRON	YMS	4
EXECU'	TIVE SUMMARY	6
	ER ONE: INTRODUCTION	
	BACKGROUND	
	SECTOR VISION AND MISSION	
	SECTOR GOALS/STRATEGIC OBJECTIVES OF THE SECTOR	
	SUB-SECTORS AND THEIR MANDATES	
1.4		
1.4		
1.4		
1.4	*	
1.4		
1.4	4.6 Housing Sub-Sector	17
1.4	1.7 Nairobi Metropolitan Development Sub-Sector	17
1.5	AUTONOMOUS AND SEMI-AUTONOMOUS GOVERNMENT AGENCIES (SAGAS)	17
1.5	5.1 Roads Sub-Sector	17
1.5	5.2 Public Works Sub-Sector	18
1.5		
1.5	6,7	
1.5		
1.5		
	ROLE OF SECTOR STAKEHOLDERS.	
1.6		
1.6		20
1.6	J	
1.6	=	
1.6	6.5 ParliamentPTER TWO: SECTOR PERFORMANCE AND ACHIEVEMENTS DURING THE PE	
	08-2009/10Performance of Programmes	
	KEY INDICATORS OF SECTOR AND SUB-SECTOR PERFORMANCE	
	EXPENDITURE ANALYSIS	
2.3		
2.3		
2.3		
	REVIEW OF PENDING BILLS	
	ER THREE: MEDIUM TERM PRIORITIES AND FINANCIAL PLAN FOR THE M D 2011/12-2013/14	
	PRIORITIZATION OF PROGRAMMES AND SUB-PROGRAMMES	
3.1 3.1		
3.1		
3.1	for the Sector	
3.1	·	
	ANALYSIS OF RESOURCE REQUIREMENT BY:-	
3.2	· ·	
3.2		
3.2	_ ~~~~~~~~	
3.2		
3.2		
	ANALYSIS OF RESOURCE REQUIREMENTS VS ALLOCATION	
3.3		
3.3		
3.3	*	
3.3		
3.3		
3.3		

CHAPTE	R FOUR: CROSS SECTOR LINKAGES	63
4.1 A	NALYSIS OF OTHER SECTOR LINKAGES TO THE SECTOR	63
4.2 C	ROSS SECTOR LINKAGES AND ITS IMPACTS ON RESOURCE ALLOCATIONS	66
СНАРТЕ	R FIVE: EMERGING ISSUES AND CHALLENGES	67
СНАРТЕ	R SIX: CONCLUSION	71
СНАРТЕ	R SEVEN: RECOMMENDATIONS	73
REFERE	NCES	74

LIST OF TABLE	
Table 2.1: Performance of Programmes	21
Table 2.2: Analysis of Recurrent Expenditures for the Sector (Kshs. Millions)	35
Table 2.3: Analysis of Development Expenditures for the Sector (Kshs. Millions)	35
Table 2.4: Analysis of Donor Funded Programmes (Kshs. Millions)	36
Table 2.5: Analysis of Recurrent Pending Bills (Kshs. Millions)	37
Table 2.6: Analysis of Development Pending Bills (Kshs. Millions)	37
Table 3.1: Programmes and their Objectives	39
Table 3.2: Programmes, Sub-programmes, Expected Outcomes, Outputs and KPI	40
Table 3.3: Analysis of Resource Requirement (Kshs. Millions)	48
Table 3.4: Recurrent Resource Requirements by Sub-sector (Kshs. Millions)	48
Table 3.5: Development Resource Requirements by Sub-sector (Kshs. Millions)	49
Table 3.6: Resource Requirements by Programme and Sub-Programme ((Kshs. Millions)	49
Table 3.7: Resource Requirements by Economic Classification (Kshs. Millions)	52
Table 3.8: Analysis of Resource Requirements Vs Allocation (Kshs. Millions)	55
Table 3.9: Analysis of Resource Requirements Vs Allocation (Kshs. Millions)	55
Table 3.10: Resource Requirements Vs Allocation by SAGAs (Kshs. Millions)	56
Table 3.11: Resource Requirements Vs Allocation by SAGAs (Kshs. Millions)	56
Table 3.12: Requirements Vs Allocation by Programmes/Sub-programmes (Millions)	57
Table 3.13: Requirements Vs Allocation by Economic Classification (Kshs. Millions)	60

#### **ACRONYMS**

ABTs - Appropriate Building Technologies

Arid and Semi Arid Lands ASAL **BOPA Budget Outlook Paper** Civil Aviation Organization CAO Central Business District CBD Contribution in lieu of rates **CILOR CSHS** Civil Servants Housing Scheme **GDC** Geothermal Development Company **DFID** Department of International Development

ERB - Engineer Registration Board
ERC - Energy Regulatory Commission
ERS - Economic Recovery Strategy
FAA - Federal Aviation Administration

FY - Financial Year

GOK - Government of Kenya

GIS - Geographical Information System
HABRI - Housing and Research Institute
HID - Housing Infrastructure Development
IMO - International Maritime Organization

IPO - Initial Public Offering

IPP - Independent Power Producer

JKIA - Jomo Kenyatta International Airport
KBRC - Kenya Building Research Centre
KBRC - Kenya Building Research Centre
KAA - Kenya Airports Authority

KCAA - Kenya Civil Aviation Authority

KCAA - Kenya Civil Aviation Authority

KENGEN - Kenya Electricity Generating Company
KENHA - Kenya National Highways Authority
KENSUP - Kenya Slum Upgrading Programme
KERRA - Kenya Rural Roads Authority

KETRACO - Kenya Electricity Transmission Company

KFS - Kenya Ferry Services

KIHBT - Kenya Institute of Highways and Building Technology

KMA - Kenya Maritime Authority
 KPA - Kenya Ports Authority
 KPC - Kenya Pipeline Company

KPLC - Kenya Power and Lighting Company Limited

KPRL - Kenya Petroleum Refineries Ltd
KRC - Kenya Railways Corporation
KURA - Kenya Urban Roads Authority

KUTIP - Kenya Urban Transport Infrastructural Programme

KWS - Kenya Wildlife Service

LAHRMIS - Local Authority Human Resource Management Integrated System
LAIFOM - Local Authority Integrated Financial Operations Management

System

LAs - Local Authorities

LASDAP - Local Authority Service Delivery Action Plan

LAPF - Local Authority Provident Fund
LATF - Local Authority Transfer Fund
LGLA - Local Government Loan Authority

LPG - Local Petroleum Gas

MDGs - Millennium Development Goals

ODPM&MOLG - Office of the Deputy Prime Minister and Ministry of Local

Government

MOE - Ministry of Energy MOH - Ministry of Housing

MONMED - Ministry of Nairobi Metropolitan Development

MOPW - Ministry of Public Works
MOT - Ministry of Transport
MOR - Ministry of Roads

MTD - Materials and Transport Department
MTEF - Medium Term Expenditure Framework

MTP - Medium Term Plan

MW - Mega Watts

NHC - National Housing Corporation NOCK - National Oil Corporation of Kenya

NWCPC - National Water Conservation and Pipeline Corporation

PPP - Public Private Partnership
RBM - Result Based Management
REA - Rural Electrification Authority

RRI - Rapid Result Initiative RRT - Rent Restriction Tribunal

SAGAs - Semi Autonomous Government Agencies
UNGA - United Nations General Assembly

#### **EXECUTIVE SUMMARY**

The Physical Infrastructure Sector consists of Roads; Public Works; Transport; Energy; Local Government; Nairobi Metropolitan Development and Housing Sub-Sectors. In the new long term development blue print for the country "The Kenya Vision 2030", infrastructure development has been recognized as an enabler for sustained development of the economy and particularly for the six key sectors namely; Tourism, Business Process Outsourcing (BPO), Wholesale and Retail, Manufacturing, Financial Services and Agriculture and Livestock identified under the economic pillar.

The Kenya Vision 2030 recognizes the importance of development infrastructure as critical for socio-economic transformation. The Infrastructure Sector aspires for a country with modern metropolitan cities, municipalities and towns with infrastructural facilities that meet international standards to make Kenya a globally competitive and prosperous country. The strategies and measures to be pursued in the medium term include; supporting the development of infrastructure initiatives around flagship projects, strengthening the institutional framework for infrastructure development, raising the efficiency and quality of infrastructure as well as increasing the pace of infrastructure projects so that they are completed as envisaged, protecting the environment as a national asset and conserving it for the benefit of the future generations and the wider international community. Other measures include encouraging Private Sector participation in the provision of infrastructure services through the Public-Private-Partnerships (PPPs) framework.

The Government has continued to commit more financial resources for infrastructural development in the last three years for both Recurrent and Development expenditures. The approved Recurrent expenditure budget on Physical Infrastructure Sector increased from Kshs. 32,348 million in 2007/08 financial year to Kshs. 40,844 million in 2009/10 FY. The total actual recurrent expenditure increased from 75.7 per cent in 2007/08 to 95.5 per cent in 2009/10. The upward trend in recurrent expenditure has been due to the increase in the Road Maintenance Fuel Levy Fund levied on petroleum products. Expenditure on roads constituted 54 per cent and 53.8 per cent of the total approved and actual recurrent physical infrastructure expenditure respectively for the FY 2009/10.

The trends in expenditure analysis indicate that there has been a general underutilization of recurrent expenditure. Between 2008/09 and 2009/10, the average underutilization of recurrent expenditure funds stood at 4.5%. The underutilisation is attributed to: Slow and bureaucratic procurement procedures particularly for road maintenance projects which are not synchronized with flow of funds; Delayed exchequer releases especially towards the end of the financial year and in some cases lack of the exchequer releases; and Breakdown of the IFMIS system especially towards end of the financial year when a number of transactions usually delayed due to procurement procedures are being affected.

The approved and actual Development expenditure budget on Physical Infrastructure Sector has been increasing since 2007/08 FY. The total approved expenditure increased from Kshs 65,558 million in FY 2007/08 to Kshs. 109,422 million in FY 2009/10. The total actual expenditure increased from 51,159 million in 2007/08 to Kshs 80,840 million in 2009/10. Expenditure on Roads and Energy accounted for 83.7 per cent and 85.5 percent of the total approved and total actual Development expenditure for the FY 2009/10.

The increased allocation in the original and actual expenditure was in line with Government commitment and recognition of the country's infrastructure including roads, airports, ports, energy generation and supply as being the foundation of the Kenya Vision 2030. The trends in expenditure analysis indicate that there has been a general underutilization of development expenditure. Between 2007/08 and 2009/10, the average underutilization of development expenditure for the period under review stood at 28.7%. The underutilisation is attributed to: Procurement challenges particularly donor funded projects; Inadequate counterpart funding which affects the expenditure on the donor component; and Delayed exchequer releases and disbursement of funds from development partners.

Approved external funding has been increasing over the period under review. The approved external funding increased from Kshs. 28,562 million in 2007/08 to Kshs. 40,455 million in 2009/10. The total actual external funding increased by 56.7 per cent from Kshs 15,698 million in 2007/08 to Kshs. 24,594 million in 2009/10. The major beneficiaries were; Roads and Energy sub-sectors accounting for 59 and 32 per cent respectively during 2009/10 FY. The funding was mainly for the improvement of road network and energy projects.

In FY 2009/10, the total pending bill for the sector was Kshs.14, 071 million. Bills on the development vote were Kshs. 13,387 million while for recurrent was Kshs. 684 million. Roads, Public Works, Housing and Local Government sub-sectors contributed the sector's pending bills in both Development and Recurrent. Most bills emanates from backlog in payment of claims towards closure of financial year. Over the last three years, there has been remarkable improvement in settling pending bills in recurrent vote due to prudent financial management. However, the trend has been rising mainly as a result of delayed payments for contracted civil works and professional services, variation of contracts, austerity measures and delays in exchequer releases to facilitate payments in the development vote. Notably some of the pending bills captured in the table have been settled.

According to Budget Outlook Paper (BOPA) 20011/12 – 2013/14 the Gross sector ceiling for the Physical Infrastructure Sector in Financial Year 2011/12 amounts to Kshs.186, 497 Million. The net recurrent budget ceiling is Kshs. 8,976 Million while Development GOK budget ceiling is Kshs.73,771 Million. However the development sector resource requirement is over and above sector ceiling by Kshs. 78,355 Million. Consequently, sub sectors have undertaken explicit prioritization of programmes to be within the resource envelope to ensure that funds are focused on identified priorities.

The Sector has been implementing key reforms aimed at enhancing efficiency and effectiveness in service delivery. In the Roads sub-sector following the enactment of the Roads Act 2007, the Government has operationalized the three Road Authorities namely; the Kenya National Highways Authority (KeNHA), the Kenya Rural Roads Authority (KeRRA) and Kenya Urban Roads Authority (KURA).

The Government is implementing the Housing policy through implementation of key sub programmes namely the housing development and estates management with various projects. In the Energy sub-sector, the Government has consolidated the Electric Power Act and the Petroleum Act through the Energy Act 2007. The Rural Electrification Authority (REA), the Energy Regulatory Commission (ERC) and the Energy Tribunal have been established. In addition, a state-owned Geothermal Development Company (GDC) has been established to be in charge of geothermal resource assessments and sale of steam to future independent power producers (IPPs) and KenGen for electricity generation; GDC will also sell low-

enthalpy geothermal fluids to other users. Further, Kenya Electricity Transmission Company (KETRACO), which is 100% government owned, has been established to be responsible for construction and maintenance of new power transmission lines. Kenya Power and Lighting Company (KPLC) is responsible for distribution and will keep its current stock of existing 132 kV and 220 kV transmission lines.

In order to enhance the performance of the construction industry as the premier agent for the development and management of infrastructure facilities and services, a Comprehensive Public Works Policy will be implemented through a National Construction Authority (NCA) which will be established. The objective will be to strengthen the capacity of Kenya's construction industry. To this end, a cab Memo on establishment of a NCA has been approved by Cabinet and the bill has been forwarded to parliament for approval. Plans are also underway to strengthen the Engineers Registration Board (ERB), to allow the ERB to provide relevant training, share knowledge and strengthen self regulation and the sanctioning of unprofessional and unethical conduct by practicing engineers and consulting firms.

#### **CHAPTER ONE: INTRODUCTION**

#### 1.1 Background

The Physical Infrastructure Sector consists of Roads; Public Works; Transport; Energy; Local Government; Nairobi Metropolitan Development and Housing Sub-Sectors Poor infrastructure was identified under Economic Recovery Strategy for Wealth and Employment Creation 2003-07 (ERS) as a major constraint to doing business. The Kenya Vision 2030 recognises infrastructure as an enabler for sustained development of the economy and particularly the six key sectors identified under the economic pillar.

The development of high quality infrastructure is critical for socio-economic transformation in the Medium Term. The strategies and measures to be pursued in the Medium Term include; supporting development initiatives around flagship projects, strengthening institutional framework, enhancing efficiency and quality as well as increasing the pace of projects so that they are completed as envisaged, protecting the environment as a national asset and conserving it for the benefit of the future generations and the wider international community. Other measures include encouraging private sector participation in the provision of infrastructure services through the Public-Private-Partnership (PPP) framework.

The Sector aims at improving both the quality and quantity of the existing physical infrastructure facilities in order to contribute to the attainment and maintenance of a sustained economic growth of over 10% per annum by 2012 and beyond. In the long run, the aim is to provide an enabling environment for socio-economic development. This will provide necessary support to the six key sectors and flagship projects which have been prioritized to drive the Kenyan economy towards achieving the aspirations of the Kenya Vision 2030.

The Kenya Vision 2030 like its predecessor the ERS calls for a considerable shift in the manner in which the country deploys her resources to acquire the necessary capacity and access to infrastructure services in their wealth creation through inter alia; Below are the flagship projects in the Sector;

*Nairobi Fresh Produce Wholesale Hub:* The flagship project will be developed under the Public Private Partnership framework to address challenges facing fresh produce marketing and market infrastructure. It is envisioned that the proposed development will be a vehicle towards a centre of excellence in fresh produce marketing. Success of the project will lead to the replication of similar hubs in other major urban areas in Kenya.

**Dredging and Deepening the Mombasa Port**: The dredging of the port to deepen the channel to 16metres will enable larger post-Panama vessels to access the port and thereby remove the risk of the port slowly evolving into a feeder facility which larger vessels have no access. Dredging the port to 16 meters to accommodate panama vessels is underway. Under Port Container Terminal Expansion, Procurement of consultancy for civil works supervision is complete. Awarding of civil works contract is at an advanced stage.

Nairobi Metropolitan Region Rapid Bus Transit System: The Government has laid plans for the development of a rapid bus transport system starting with the following three transport corridors: Athi River Town to Kikuyu Town (approximately 38 km); Thika Town to the Central Business District (approximately 50 kms); and Jomo Kenyatta International Airport to the Central Business District (approximately 25 kms). The Nairobi Metropolitan region

rapid bus transit is expected to be operational in four years time. So far a feasibility study on Mass Rapid Transit System for Nairobi Metropolitan region is being undertaken together with development of commuter rail services in an effort to decongest Nairobi Metropolitan region.

Development of Light Rail for Nairobi and its Suburbs: The area expected to be served by the light rail stretches from Nairobi Railway Station, situated in the Central Business District, to Embakasi/Jomo Kenyatta International Airport, a distance of 15.6 kilometres, and borders the heavily populated industrial area, Makongeni, Makandara, Buru Buru, Doonholm and Pipeline, Jogoo Road, Outer Ring Road, Airport Roads, Mombasa Road, the Airport Siding and the Nairobi-Makandara. It is projected that the new light rail services will serve at least 150,000 daily passengers, which is 5 per cent of the future public transport demand in the Nairobi metropolitan area. To make this possible, a feasibility study for light Rail/Commuters trains to JKIA, CDB and suburbs (Athi River to City Centre, Kikuyu Town to city centre and Thika Town to the Central Business District) is in progress.

Development of a New Transport Corridor to Southern Sudan and Ethiopia: This corridor will link Lamu, Kenya's North Eastern province, Ethiopia and Southern Sudan: The project involves the development of a new transport corridor from the new port at Lamu through Garrisa, Isiolo, Maralal, Lodwar, and Lokichogio to branch at Isiolo to Ethiopia and Southern Sudan. This will comprise a new road network, railway line, oil refinery at Lamu, oil pipeline, Lamu Airport and free port at Lamu (Manda Bay) in addition to resort cities at the coast and in Isiolo. In addition to raising the scope for this region's tourism, agriculture and industrial potential, the project will open up access to Southern Sudan, which has huge unexploited natural resources, including oil. Under this project, major roads linking Kenya to Ethiopia ongoing e.g. Isiolo-Merile is almost complete; Merile-Marsabit is on procurement stage; Marsabit-Turbi has been tendered while discussion with ADB are on-going on Turbi-Moyale road while the World Bank has funded feasibility and design Transport corridor linking Kenya to Southern Sudan. Further, Terms of Reference (TORs) for the feasibility study has been developed and advertised for expression of interest. Consultancy service for the feasibility study and preparation of preliminary designs, master plan for Lamu, and detailed designs for the first three berths awarded. The study was commissioned in June 2010 and will be completed in March 2011.

National Road Safety Programme: The objective of this programme shall be to fast-track implementation of the National Road Safety Action Plan to achieve the targets of reducing the incidence of road crashes and its impact on the Kenyan Economy. To this end, three committees have been formed including: Infrastructure and Engineering, Enforcement and Information and Education committees to spearhead the work of the Council. Some of the measures instituted to reduce overloading include the banning of trucks/trailers with four-axle configurations in line with the agreed Common Market for Eastern and Southern Africa (COMESA) protocol. Modernization of the weighbridges to enable monitoring of operations from a central control room is in progress. Already Mariakani and Athi River weighbridges have been put under private management while axle-weighing are being installed and structures being constructed in 6 weighbridges (Mtwapa, Isinya, Juja, Busia, Mai Mahiu and Eldoret) while 10 mobile weighbridges are in the process of procurement.

Computerised Information Maintenance Management Systems Programme: This will develop three integrated computerised systems to manage our roads, bridges and pavements. The Road Maintenance Management System will be used to monitor the condition of roads,

and manage road maintenance works. The Bridge Maintenance Management System will be used to monitor the condition of bridges on the main roads network and manage maintenance works on those bridges. The Pavement Maintenance Management System will be used for the short- and long-term planning of road resurfacing and rehabilitation works.

Rehabilitation and Maintenance of Airstrips and Airport Expansion and Modernisation: This will involve rehabilitation and expansion of airstrips and airports serving tourist and commercial sites in the country.

Nairobi City Integrated Close Circuit Television System: This will be a system designed to provide 24-hour close circuit television surveillance of the City of Nairobi. It will be integrated into the Nairobi Metropolitan Region's Intelligent Transport Information System. The first phase will cover the City of Nairobi and will eventually be extended to cover the business districts of the Nairobi Metropolitan Region and key intersections and other and other urban areas.

Construction Industry Development Policy: In order to enhance the performance of the construction industry as the premier agent for the development and management of infrastructure facilities and services, a Comprehensive Construction Industry Development Policy to be implemented through a dedicated Construction Industry Development Board will be formulated within 12 months and thereafter consistently implemented. One of its objectives will be to strengthen the capacity of Kenya's construction industry. A cab Memo on establishment of a NCA has been approved by Cabinet and the bill has been forwarded to parliament for approval. Plans are also underway to strengthen the Engineers Registration Board (ERB), to allow the ERB to provide relevant training, share knowledge and strengthen self regulation and the sanctioning of unprofessional and unethical conduct by practicing engineers and consulting firms.

**Public Facilities Improvement Programme:** This programme will target the improvement of the visual appeal and functionality of all public facilities and buildings. In this regard, maintenance and management of public facilities will be enhanced through comprehensive facility management approaches. Citizens will be encouraged to value and respect public facilities through a series of public education and awareness programmes aimed at engendering a sense of civic responsibility and foster nation-building attitudes among all citizens. This programme will be supported by dedicated Computerised Facilities Management Information Systems.

**Rural Electrification Programme:** This programme will facilitate supply of power from the national grid to 460 trading centres and 110 secondary schools among other public facilities. In addition the Programme intends to spend Kshs. 180 million to provide solar electricity generators to 74 public institutions such as secondary schools, boarding primary schools, health centres and dispensaries. Some isolated mini diesel power stations will also be constructed to serve areas which are uneconomical to be supplied power from the national grid.

Geothermal Appraisal at Olkaria IV: Six (6) appraisal wells will be drilled to assess the commercial viability of producing 140 MW of electricity. In the medium the drilling campaign will be stepped up to other areas with geothermal resources to realize adequate steam to produce equivalent 600MWe

*Coal Exploration:* Initial exploratory drilling at Mui Basin in Kitui and Mwingi Districts has indicated the existence of coal in this area. During the MTP period, appraisal drilling and assessment will be undertaken to determine the quantity and quality with a view to ascertaining the commercial viability of the coal deposits. Coal exploration will thereafter be extended to cover other areas such as Karoo in the Coast Province.

*Wind Power Generation:* Wind power generation by KenGen and IPPs is expected to supply a total of about 150 MW.

**Cogeneration:** Power will also be produced in the process of producing sugar. The sugar factories in the country have the potential of producing about 120 MW using bagasse as the base.

Least Cost Power Master Plan: The Plan will identify new generation and supply sources to ensure that the national electricity supply is in tandem with demand taking into account the 15% margin required to ensure security of supply. In light of frequent droughts and the increase in oil prices, emphasis will be placed on the development of alternative energy resources especially geothermal, solar, wind power and coal. Since power projects take time to construct, measures will be taken to fast track implementation of the power projects in the Master Plan to ensure adequate energy supply to meet the demand over the MTP period.

*Capacity Enhancement of the Oil Pipeline:* The flow rate of the Mombasa - Nairobi oil pipeline will be increased from 440,000 litres per hour to 880,000 litres per hour. While the Nairobi - Eldoret oil pipeline will be augmented with a 14-inch diameter parallel pipeline to increase the pumping flow rate from 220,000 litres per hour to 440,000 litres per hour.

**Kenya - Uganda Oil Pipeline:** The two Governments of Kenya and Uganda will partner with a private investor to extend the oil pipeline from Eldoret to Kampala.

**Promotion of LPG Consumption:** A 6,000 ton common user LPG import handling, storage and distribution facilities will be constructed in Mombasa. In Nairobi a 2,000 ton storage and distribution facilities will be constructed. These facilities in Mombasa and Nairobi, which will be undertaken on public-private partnership, are expected to increase the sizes of imported parcel, storage space and supply of sources resulting to reduction of freight costs hence making LPG cheaper in the country.

#### Other Programmes Include;

Installation of physical and social infrastructure in slums in 20 urban areas to formalise slums, permit construction of permanent houses and attract private investment; Production of 200,000 housing units annually by 2012 through a mixture of initiatives in order to fill the huge housing gap in the country (e.g. build/enhance capacity in local authorities to provide serviced land; and/or to produce low-cost housing); Establishment of housing technology centres in each constituency to increase access to decent housing by promoting location-specific building materials and low-cost housing; Establishing a secondary mortgage finance corporation to increase access to housing finance; and Enacting the Housing Bill, 2006 to legislate for a one-stop housing development approvals mechanism to fast-track approval of housing plans and reduce the time cost of construction.

#### **Key Initiatives**

In addition to the flagship projects, a number of initiatives will also be carried out in the next five years.

**Build capacity in Kenya's Urban Planning Departments:** Planning departments will be established in all urban local authorities. Existing central government planners will be redeployed to man the newly-established departments; this will alleviate the current shortage of urban planning capacity at both technical and managerial levels in most local authorities. Install user-friendly approval systems in local authorities.

*Operationalise a National Decentralisation and Devolution Policy*: In order to ensure that urban planning is properly integrated and all inclusive, a national decentralisation/devolution policy will be operationalized to entrench local level participatory planning and development.

Capacity Building for the Building Industry: Capacity building will be supported to enhance planning, implementation and management in the housing sector. Skills inventory will be undertaken in order to focus on priority areas for capacity development. To provide skills and local capacity in this sector, Kenyan companies will compete in local and regional building markets development and a national construction corporation will be established.

Access to Finance: In order to increase access to finance among low-income households and among developers, a secondary mortgage finance corporation, a national housing fund and housing and infrastructure bonds will be established. Mechanisms to support group or cooperative housing schemes will be instituted.

Legislative, Institutional and Regulatory Reforms: To support Vision 2030 aspirations, key legislative, institutional and regulatory reforms will be implemented. The objective of the reforms will be to reduce the housing plans approval period (from more than 180 days to no more than 90 days) and increase by 50 per cent every year the number of contractors in various categories. Further, detailed guidelines will be developed to promote public-private partnerships in the development of the housing sector.

**Low-cost Housing:** Enhance efforts to design and implement truly low-cost housing models/prototypes/pre-approved building plans. This can be promoted through rural technical institutes.

#### Wholesale Hubs and Producer Business Groups (PBG)/Retail Market Pilot Project

The sub sector intends to undertake to create 10 wholesale hubs and 1,000 – 1500 PBG with a pilot project in Maragua. This project will increase whole sale activities within Maragua and its environment. In addition the sub sector will build at least 10 "Tie1" retail markets.

#### **Expansion of Market Outreach**

The sub sector also intends to expand at least 40 markets in cities, municipalities and town councils beside construction of 3 hawkers markets.

#### National Mapping (GIS)/Metropolitan Development

The Sub sector has continued to conduct GIS mapping and planning of various towns countrywide and it intends to prepare six metropolitan development and for special local authorities and border towns and municipalities.

While significant gains in infrastructure development have been realised over the last 5 years, Kenya's global competitiveness is still weak, it is attributed to high cost of doing business. Some of the challenges include; high cost of power, poor road network and poor performance by the Kenya Railways Corporation Concessionaire.

The Sector has been implementing key reforms aimed at enhancing efficiency and effectiveness in service delivery. In the Roads sub-sector following the enactment of the Roads Act 2007, the Government has operationalized the three Road Authorities namely; the Kenya National Highways Authority (KeNHA), the Kenya Rural Roads Authority (KeRRA) and Kenya Urban Roads Authority (KURA).

The Government is implementing the Housing policy through implementation of key sub programmes namely the housing development and estates management with various projects. In the Energy sub-sector, the Government has consolidated the Electric Power Act and the Petroleum Act through the Energy Act 2007. The Rural Electrification Authority (REA), the Energy Regulatory Commission (ERC) and the Energy Tribunal have been established. In addition, a state-owned Geothermal Development Company (GDC) has been established to be in charge of geothermal resource assessments and sale of steam to future independent power producers (IPPs) and KenGen for electricity generation; GDC will also sell lowenthalpy geothermal fluids to other users. Further, Kenya Electricity Transmission Company (KETRACO), which is 100% government owned, has been established to be responsible for construction and maintenance of new power transmission lines. Kenya Power and Lighting Company (KPLC) is responsible for distribution and will keep its current stock of existing 132 kV and 220 kV transmission lines.

In order to enhance the performance of the construction industry as the premier agent for the development and management of infrastructure facilities and services, a Comprehensive Public Works Policy will be implemented through a National Construction Authority (NCA) which will be established. The objective will be to strengthen the capacity of Kenya's construction industry. To this end, a cab Memo on establishment of a NCA has been approved by Cabinet and the bill has been forwarded to parliament for approval. Plans are also underway to strengthen the Engineers Registration Board (ERB), to allow the ERB to provide relevant training, share knowledge and strengthen self regulation and the sanctioning of unprofessional and unethical conduct by practicing engineers and consulting firms.

The Government has, finalized the draft Integrated National Transport Policy paper under the theme "Moving a Working Nation" which prescribes policies aimed at facilitating national and regional integration, promoting trade, economic development, contributing to poverty reduction and wealth creation and the achievement of the objectives of Vision 2030 and beyond.

Some of the achievements in the Sector in 2009/10 include: construction of 385km km of new roads and rehabilitation of 320 km; maintaining of 26 airstrips in National Parks and Reserves; preparation of the National Integrated Transport Policy which has been adopted by the Cabinet; finalization of consultancy report on feasibility study on terminal facilities to handle capacity of 1.2Million TEUs per annum; formation of National Road Safety Council; completion of 6 stalled building projects; construction of 730 Meters of sea wall; construction of 40 footbridges; relocation of 600 Kibera residents to the decanting site; installation of 124 public institutions with PV systems; connecting 1,714 markets and public institutions and

220,000 households to the national grid; completion of 6 bus parks; construction of 6 wholesale markets at an advanced stage; 2 junctions within metro CBD signalized;

#### 1.2 Sector Vision and Mission

The **Vision** is "Provide cost-effective, world-class infrastructure facilities and services in support of Vision 2030".

The **Mission** is "To provide efficient, affordable and reliable infrastructure for sustainable economic growth and development through construction, modernization, rehabilitation and effective management of all infrastructure facilities"

### 1.3 Sector Goals/Strategic Objectives of the Sector

The sector goals are:

- Accelerating ongoing infrastructure development, focusing on quality, aesthetics and functionality of the infrastructure services developed;
- Infrastructure development to support identified flagship projects to ensure contribution to the economic growth and social equity goals;
- Improving efficiency and effectiveness of the infrastructure development process at all levels planning, contracting, and construction;
- Protecting environment as a national asset and conserving it for benefit of the future generation;
- Providing a utility sector (electricity) that is modern, customer- oriented and technologically-enabled to provide efficient, cost-effective, quality services to all citizens; and
- Cultivating social attitude of respect and care for public infrastructure facilities and services amongst all citizens.

The Strategic Objectives are:

- Strengthening the institutional framework for infrastructure development and accelerating the speed of completion;
- Raising efficiency and quality of infrastructure projects and timely implementation of infrastructure projects;
- Developing and maintaining an integrated, safe and efficient transport network;
- Integrating information and communication technologies in the process of infrastructure service provision;
- Benchmarking infrastructure facilities and services provision with globally acceptable performance standards targeting enhanced customer satisfaction;
- Enhancing private sector participation in the provision of infrastructure facilities and services strategically complemented by public sector interventions.

#### 1.4 Sub-Sectors and their Mandates

#### 1.4.1 Roads Sub-Sector

The Sub-Sector is charged with the responsibility of providing and maintaining vital road infrastructural facilities in the country. It is also an advisor to the government on plant and

equipment. The aim of the sub sector is to improve both quality and quantity of the existing facilities to generate more economic growth.

#### Mandate

The sub-sector is responsible for development, rehabilitation and maintenance of road network in the country (classified, urban and rural roads as well as roads in National Parks and reserves).

#### 1.4.2 Public Works Sub-Sector

The Sub-sector is charged with the responsibility of providing and maintaining vital basic infrastructural facilities in the country in close liaison with other relevant ministries and departments. The Ministry's main responsibility is development, maintenance, and rehabilitation of buildings and other public Works in the country. The Ministry is also an advisor to the government on building plans.

#### Mandate

The sub-sector is responsible for development, maintenance and rehabilitation of Government Buildings and Other Public Works in the country.

#### 1.4.3 Transport Sub-Sector

The Transport Sub-sector in Kenya encompasses a transport system comprising of the following modes: road, rail, air and maritime transport. The sector is crucial in the promotion of socio-economic activities and development. An effective, efficient and reliable transport system is a mainspring for rapid and sustained development in terms of national, regional and international integration, trade facilitation, poverty reduction and improvement of welfare of the citizenry.

In the Vision 2030, the transport sub - sector is a key transforming pillar which is expected to play a pivotal role in steering Kenya's economy towards a middle income level by facilitating mobility of people, goods and services.

#### Mandate

The Sub-sector is responsible for transport policy formulation and development of regulatory framework and transport infrastructure.

#### 1.4.3 Energy Sub-Sector

#### Mandate

The sub-sector is responsible for energy policy formulation and implementation.

#### 1.4.5 Local Government Sub-Sector

The Local Government sub sector is focused at improving the infrastructural, governance and managerial capacity of Local Authorities which is geared towards the achievements of Vision 2030. The ministry's main focus is to ensure Operationalization of policy, institutional and legal framework within the local Authorities to enhance service delivery. The activities of the sub-sector are in line with other government policies e.g. Poverty Reduction, equitable

distribution of resources, Employment and Wealth creation, good governance as well as promotion of local economic growth and development.

#### Mandate

Oversight, Management and Development support to National urban and metro areas and towns and county councils

#### 1.4.6 Housing Sub-Sector

The sub-sector is strategic in facilitating production and management of quality, affordable and decent housing in urban areas and improvement of quality shelter in rural areas. This is done through provision of effective and efficient estate management services; improvement of tenancy relations; Housing Policy development; Slum Upgrading; Civil Servants Housing Development; Documentation and Dissemination of Appropriate Low Cost Building Materials and Technologies; Promotion of Public-Private Partnerships in housing infrastructure development; and Mainstreaming of M&E in programmes and projects.

#### Mandate

The sub-sector facilitates development and management of quality and affordable housing for Kenyans.

#### 1.4.7 Nairobi Metropolitan Development Sub-Sector

The sub-sector is mandated to plan the development of integrated roads, bus and rail infrastructure, efficient mass transport system, replacement of slums with affordable low cost/rental housing, efficient water supply and waste management for Metropolitan area among others.

#### Mandate

The sub-sector is responsible for the planning and development of an integrated spatial growth of the Nairobi Metropolitan region.

#### 1.5 Autonomous and Semi-Autonomous Government Agencies (SAGAs)

Between 2006 and 2008 through the Roads Act 2006 and Energy Act 2007, six SAGAs were created as part of the reform agenda for the sector.

#### 1.5.1 Roads Sub-Sector

- 1. The Kenya National Highways Authority (KeNHA): is responsible for the development and maintenance of class A, B and C roads. KeNHA will also advise the Minister responsible for Roads on technical issues such as standards, axle load and research development. KeNHA will also create regions of operations countrywide;
- 2. The Kenya Rural Roads Authority (KeRRA): is responsible for all rural and small town roads of Class D and below including Forest Roads, Special Purpose Roads and Unclassified Roads currently under county councils and town councils. KeRRA will also manage funds allocated to Constituencies;
- 3. Kenya Urban Roads Authority (KURA): is responsible for management and maintenance of all roads within cities and major municipalities. Local Authorities will remain major stakeholders in prioritizing road works to be implemented by KURA;

- 4. The Kenya Wildlife Service (KWS) is a roads agency responsible for roads in National Parks and Game Reserves as well as access roads allocated to KWS by Ministry of Roads; and
- 5. The Kenya Roads Board established by Kenya Roads Board Act 1999: is responsible for funding maintenance of all roads including approval of maintenance work programmes, technical and financial audits of works funded by the Board.

The Government has also approved the transformation of three other departments into Semi-Autonomous Government Agencies (SAGAs). These are:

- 6. Mechanical and Transport Department: is responsible for provision on commercial basis of equipment to the road agencies and private sector for development and maintenance of road infrastructure:
- 7. Materials Testing and Research Department: is responsible for materials testing and research; and
- 8. Kenya Institute of Highways and Building Technology (KIHBT): is responsible for providing infrastructure training to public and private sector staff.

#### 1.5.2 Public Works Sub-Sector

The Ministry does not have SAGAs.

#### 1.5.3 Transport Sub-Sector

- Kenya Civil Aviation Authority (KCAA) is responsible for regulation of the aviation industry and ensuring air safety navigation in the country;
- Kenya Airports Authority (KAA) manages the most important and fastest transport link to the outside world. The Authority ensures that there are adequate efficient and safe airports in Kenya.
- Kenya Ports Authority (KPA) manages the ports, along the coastline that provides the expansive hinterland of mainland Kenya, Rwanda, Burundi, Sudan and Uganda with cheap transport link to the outside world.
- Kenya Ferry Services (KFS) provides free ferry services to the public across the Likoni and Mtongwe channels on the Indian Ocean.
- Kenya National Shipping Line (KNSL) was established with the objective of transportation of bulky cargo as a recommendation adopted at an international forum on shipping development
- Kenya Railways Corporation (KRC) provides rail services that are essential for transportation of commodities to and from the port of Mombasa in addition to providing commuter and passenger services.
- Kenya Maritime Authority (KMA) responsible to regulate and co-ordinate activities in the Maritime industry

#### 1.5.4 Energy Sub-Sector

- 1. Kenya Power and Lighting Company Limited (KPLC) is responsible for electricity transmission and distribution;
- 2. Energy Regulatory Commission (ERC) regulates the entire energy sector and protects interest of stakeholders;

- 3. Rural Electrification Authority (REA) is responsible for accelerating rural electrification at a pace consistent with government policy.
- 4. Energy Tribunal arbitrates disputes between ERC and aggrieved stakeholders in the energy sub-sector.
- 5. Kenya Pipeline Company (KPC): operates the oil pipeline system for the transportation and storage of petroleum products;
- 6. National Oil Corporation of Kenya (National Oil): is responsible for petroleum exploration and fuel marketing;
- 7. Kenya Electricity Generating Company (KenGen) is the main electricity generating company, accounting for 87% of the total installed capacity;
- 8. Kenya Petroleum Refineries Ltd (KPRL) is responsible for crude oil refining in the country.
- 9. Geothermal Development Company (GDC) is responsible for development of geothermal resources.
- 10. Kenya Electricity Transmission Company (KETRACO) is responsible for construction and operation of power transmission lines.

#### 1.5.5 Local Government Sub-Sector

- 1. Local Government Loan Authority (LGLA): established under the act of Parliament Chapter 270 of the Laws of Kenya to secure and operate a revolving fund for lending specifically to local authorities. The Corporation has been inactive and the ministry has restructured it in readiness for commencement of operations;
- 2. Local Authority Provident Fund (LAPF): established under the Local Authority Provident Fund Act, chapter 272 of the Laws of Kenya. It operates a lump sum benefits Scheme for employees in Local Authorities, and the performance of the fund is self sustaining; and
- 3. Kenya Local Government Staff Superannuation Fund: a Pension Scheme Fund administered by Local Authorities.
- 4. National Urban and Metropolitan Areas Development Board: To coordinate creation of other metropolitan areas in the country.

#### 1.5.6 Housing Sub-Sector

The NHC acts as the implementing arm of Government Housing Policy by providing loans to Local Authorities, Companies, Societies, Individuals or Housing organizations for promoting the development of housing schemes or for purchase of land for provision of shelter. The Act also enables NHC to construct dwellings and carry out approved schemes directly.

#### 1.6 Role of Sector Stakeholders

#### 1.6.1 Government

The Government main role will be to undertake investments core and high priority projects that will spur economic growth subsequently creating employment and wealth. The Government proposes to expand provision of infrastructure on a cost recovery basis and in the process increase public financial resources where feasible, and where investment capital costs cannot be recouped; operational, management and maintenance expenditures will be funded from user charges. Transparency in the award of contracts including execution of Government contracts and enforcement of laid down procedures on contractual obligations by both parties during implementation will be ensured.

The Government will endeavour to play a regulatory and facilitative role in the Sector especially where private sector participation is envisaged. One of the areas to encourage private sector participation is the streamlining of tax regimes and other levies in the sector to be more responsive to specific sector needs.

#### 1.6.2 Private Sector Organizations and Professional Bodies

The government has developed a comprehensive privatization program, which includes institutional and regulatory reforms to allow for private sector participation in infrastructure development. The PPP framework has been developed and is expected to enhance private sector participation in the provision of infrastructure facilities and services strategically complimented by public sector intervention.

# **1.6.3** Role of Civil Society Organization

Non-Governmental Organizations, Community Based Organizations, Faith Based Organizations and other special interest groups are involved in the planning, implementation, and monitoring and evaluation of the sector's programmes and activities.

#### 1.6.4 Development Partners and International Organizations

Development partners and international organizations are key partners in the country's infrastructure development process. They compliment government efforts through grants, prioritization of programmes/projects and loans to the sector.

#### 1.6.5 Parliament

The parliament through its specific committees plays a key role in the approval of sector policies and enactment of sector specific legislations which are key in timely projects/programmes implementations.

# CHAPTER TWO: SECTOR PERFORMANCE AND ACHIEVEMENTS DURING THE PERIOD 2007/08-2009/10

# 2.1 Performance of Programmes

**Table 2.1: Performance of Programmes** 

Programme/	Intended Output	Output Achieved	Remarks		
Sub-programme					
Roads	•	•			
Programme Name: Road Development, Maintenance and Management Programme Outcome: Expanded, Rehabilitated and Maintained road network					
Construction of Roads and Bridges	350km	385km	Output exceeded on		
Rehabilitation of Roads and	350 km	320 km of Roads	account of		
Airstrips in Game Parks and	2 Airstrips	Rehabilitated	increased		
Reserves		1 Airstrips Rehabilitated	construction		
Routine Maintenance of Airstrips  Transport	40 Airstrips	26 airstrips maintained	capacity Performance was below target due to transition handicaps on implementation of the Roads Act 2007 and review of the Kenya Roads Board Act 1999.		
Programme Name: National Transp					
Programme Outcome: Efficient tra					
Transport Policy Development	National Integrated Transport Policy	A Sessional Paper on Integrated National Transport Policy	The National Integrated Transport Policy adopted by the Cabinet; Sessional paper not presented to Parliament.		
	Reviewed Bilateral Air Service Agreements	Reviewed Bilateral Air Service Agreements (BASAs) with 15 Countries and negotiated and concluded over 10 BASAs resulting to designation of Fly540 Nairobi –Dar-salaam route and the Mombasa Safari Mombasa Dar-salaam route	Review of the agreements realised the targets. This is enhancing Kenya's business with Regional and International Airlines.		
	Shipping Acts	Reviewed 4 maritime bills and enactment of the Merchant Shipping Act 2009	Review of maritime bills felt short of target because of lack of enough provision.		

Programme/	Intended Output	Output Achieved	Remarks
Sub-programme			
	Reviewed Railway Concession Agreement	Railways Concession Agreement Reviewed and amendment deeds signed	Review was aimed at enhancing operations standards and efficiency
Computerization of Transport Systems	Transport data integration (All data on road transport integrated into data centre)	Net working of the Ministry done by 70%	Not completed due insufficient funds
	Computerisation of Transport Services (Motor Vehicle Services)	Structured cabling in six MVI (Unit) done.	Have adopted the Transport Integrated Management Systems
Port & Kenya Ferry Services	Terminal facilities to handle capacity of 1.2Million TEUs per annum	Consultancy report on feasibility study ready	Construction to start in January, 2011
	Free Port facilities on 3,000 acres at Dongo Kundu Road and Rail to link the free port and the Port.	An Inter Ministerial committee was formed to steer the process.	No fund to compensate the persons to be displaced by the project.
	Fully operational Ferries	Two ferries delivered from German where they were being constructed and are now operational.	More additional ferries required.
Road Transport Safety	Establishment of Road Safety Council	Road Safety Council Formed	The Council is operational but requires funds to fully implement the action plan
Maritime Services Improvement	Policy Guidelines and Regulations developed. Equipped Search and Rescue Centre at Mombasa and Kisumu	Enactment of the Merchant and shipping Act 2009  Mombasa Rescue coordination centre and Kisumu Search and Rescue	Target not realised due to insufficient funds. 100% maritime search and rescue facilities installed
Air Transport services	Expansion of Airports and Rehabilitation of Air Strips	(SAR) centre equipped 40 airstrips rehabilitated and undergoing routine maintenance	Rehabilitation of other airstrips is ongoing
Air Accident Investigation	Air Accident Preventive Reports and establishment of Air Accident	Air Accident Reporting Systems put in place  Air Accident Preventive	Reports done after occurrence of Air Accident Air Accident
	Reporting System	Reports and Guidelines developed	Guidelines being applied.
Rail Services Improvement	Second Lamu Transport Corridor	Procured a Consultant to undertake the Feasibility Study on the Lamu Corridor	Work in progress

Programme/	Intended Output	Output Achieved	Remarks
Sub-programme			
	Upgraded Northern Corridor (from Mombasa to Kampala)	Report for the Second Transport Corridor, design for the Standard railway Line	Re-evaluation of the Transaction advisor
	Foundation for Public Private Venture for development of the Mass Transit Routes namely Athi River to City Centre, Kikuyu Town to city centre and Thika Town to the CBD.	Feasibility Report for light Rail/ Commuters trains to JKIA, CBD and Suburbs in progress.	Construction work to start in January 2011
	Secured Railway Reserve in Kibera and Mukuru/ Relocation	Engagement of Social Expert to advice on relocation.	Relocation plan ready awaiting funding
Public Works			
<b>Programme Name:</b> Government But <b>Programme Outcome:</b> Well constru		nment buildings and offices	
Completion of stalled building projects	13 stalled building projects to be constructed and completed	6 stalled building projects constructed and completed	Inadequate funding affecting implementation
Design, documentation and supervision of construction of new building projects	120 new buildings Designed, documented and supervised	229 new buildings Designed, documented and supervised	Increased human capacity hence the target surpassed
Refurbishment/ maintenance of government buildings	50 buildings rehabilitated and maintained	86 buildings rehabilitated and maintained	Increased human capacity hence the target surpassed
Electrify government building units	20 housing units electrified	40 housing units electrified	Programme ongoing
Design documentation and surpervion of economic stimulus	1325 were designed and documented and are being supervised	1325 were designed and documented and are being supervised	Program on Going
Provision of lightning protection in government buildings in lightning prone areas	12 lightning protection in government buildings in lightning prone areas provided	5 lightning protection in government buildings in lightning prone areas provided	Programme ongoing
Maintain Electrical and mechanical building services in Government buildings	100% Maintenance of electrical and mechanical services	Maintained electrical and mechanical services to 95%	Inadequate fund
Installation of PABX's in government offices and institutions	2 new PABX's in government offices and institutions installed	Nil	Inadequate funds
Programme Name: Coastline Infrastructure and pedestrian access Programme Outcome: Improved accessibility into and out of waters			
Construction and rehabilitation jetties	60% jetties constructed and	66% jetties constructed and Rehabilitated	On going program

Output Output Achieved  ed of sea 730 Meters of sea wall constructed and maintaine	
of sea 730 Meters of sea wall constructed and maintaine	ed were allocated to the
of sea 730 Meters of sea wall constructed and maintaine	ed were allocated to the
constructed and maintaine	ed were allocated to the
	programme
ges to be 40 footbridges constructed	d Completed
1	
and Supply	
	Target achieved
ontracts   contracts procured	
Research	
ouildings 2 areas of buildings resear	rch Inadequate
	personnel for
	research
I	I
Hymner Cettlement	
	volity shalter in mural
	uanty sheller in furai
Delegation of residents for	rom Relocation to pave
	way for
	development of the
ing site   completed	vacated space
Sawaraga lina ta gannagt	
	occupied
. NCC	
Posidents relegated	Construction not
	court order
	court order
2 Zone Compression to ver	
Duningt at 660/ gamenlation	n The project behind
Project at 66% completion	Lschedule
on of level	schedule
on of level gunits,	schedule
on of level g units, y	schedule
on of level g units, y e nursery	schedule
on of level g units, y e nursery e social	schedule
on of level g units, y e nursery e social aarket	schedule
on of level g units, y e nursery e social larket one	schedule
on of level g units, y e nursery e social tarket one re in	schedule
on of level g units, y e nursery e social larket one	schedule
Date I of the decimal of the second of the s	mmon user items and

 $<sup>^{1}</sup>$  For all design and construction of projects, work to be done is apportioned as follows: Site identification and preparation of PDP (10%), cadastral survey and approval (10%); architectural, civil, electrical and mechanical designs and bill of quantities (10%); tendering and award (10%); construction 60%.

Programme/	<b>Intended Output</b>	Output Achieved	Remarks
Sub-programme			
	housing	formed	are critical avenues
	cooperatives in		of mobilising
	informal		resources for
	settlements within		housing and
	selected project		improved tenure
	areas		arrangements
	Design and	0.5 Km of access road in	Completed and in
	Construction of 0.5	Kibera completed	use
	Km of access road	-	
	in Kibera (Phase I)		
	to completion		
	Design and	Road under construction in	Project at 72%
	Construction in	Mombasa; market sheds and	performance level
	development and	high mast lights in Nyeri;	1
	rehabilitation of 7	classrooms blocks in	
	Social and Physical	Kakamega; classroom block	
	Infrastructure in	and maternity hospital in	
	main Provincial	Nakuru and classroom block	
	Towns and key	and a social hall in Kisumu	
	urban centres to		
	75%		
	Design and	1.35 Km of access road in	Completed and
	Construction of	Langata Nairobi completed	opened for use
	1.35 Km of access		
	road in Langata,		
	Nairobi		
	Design and	7 Km of Trunk sewerage	Project on course
	Construction of 7	line and 5 Km of Trunk	and is at 74.77%
	Km of Trunk	water line are near	level
	sewerage line and 5	completion	
	Km of Trunk water	•	
	line in Thika Town		
	to 70%		
	Design and	Phase 1 complete, 2 <sup>nd</sup> phase	On course
	Construction of 7	commenced	
	Km of Trunk		
	sewerage line and 2		
	Km of Trunk water		
	line in Athi River		
	Town to 70%.		
	Design and	design and construction	On course and at
	Construction of 6	works near complete	84.26 %
	Km of Trunk	F	
	sewerage line and		
	0.60 Km of anti-		
	malarial drainage		
	in Eldoret Town.		
	Design and	26 acres of land opened up	
	construction of	for housing development	
	infrastructural	- 11 mounts do veropinent	
	services (e.g.		
	access roads,		
	water, sewerage)		
	on 20 acres of land		
	for housing		
	development.		
	Identification and	10 heet practices in housing	The best prestices
	identification and	19 best practices in housing	The best practices

Programme/	<b>Intended Output</b>	Output Achieved	Remarks
Sub-programme	documentation of 14 Best Practices in Housing and Human Settlements	and human settlements identified	were documented and an exhibition held.
	Establish 15 constituency Appropriate Building Technologies (ABTs) Centres	20 constituency ABTs centres established	Positive variance resulted from fast-tracking the process of securing land and cost sharing from CDF kitty in some constituencies
	Hold 30 workshops for training, demonstration and dissemination of Appropriate Building Technologies (ABTs) in all provinces	61 workshops were conducted	Objective of these workshops is to disseminate and demonstrate utilisation of ABTs. Over-performance due to community awareness
	Disburse Kshs. 450m as loans to civil servants to purchase or develop houses.	Kshs.509m loans advanced for direct purchase or construction of housing	Approximately KShs. 3.4B has been disbursed for direct of houses from Civil Servants Housing Scheme (CSHS) and the open market or construction
	Design and Construction of 526 housing units for sale to Civil Servants in Ngara Phase II, commercial centre and nursery school	77.04% of design and construction complete	On course
	Design and Construction of 220 housing units for sale to Civil Servants (in Ngara Phase I-130, Nyeri Road – 40 and Kilimani - 50).	95% design and construction works	Ngara project behind schedule
	Design and Construction of 280 houses along Jogoo Road	54% design and construction works	Behind schedule though it has registered improved performance
	Design and construction of 22 housing units in Makueni Road- Kileleshwa to 99%	92.9% complete	Project behind schedule
Sub-Programme 2: Estates Management	Refurbish 2,220 government houses Register 1,000	2,274 government houses refurbished 1321 Government houses	Target surpassed  Over-performance

Programme/	Intended Output	Output Achieved	Remarks
Sub-programme			
	government houses	registered	due to a previous backlog
	Security fencing for 525 government houses	583 government houses fenced	Target realised.
	Maintenance of civil works	Sewerage systems overhauled (15 sites)     Electrification of 240 units including electricity meter separation	
	Renovation of Protection House and Bima towers Mombasa	<ul> <li>Design and tendering completed</li> <li>Renovations commenced</li> </ul>	Protection house to be completed in 2010/2011
	Purchase of plots at	Negotiations done	
	Upper Hill Provision of offices to district stations	Partial payment made     Renovations, upgrading and extensions for 10 stations completed	
	Prepare Draft Building Laws and Regulations	Draft finalised	
	Resolve rent tribunal cases within 2 months after close of defence hearing	706 cases were resolved within 2 months	Target met, no pending cases
	Finalize the Landlord and Tenant Bill 2007	Done	The Bill has been approved by the Cabinet awaiting publication by AG
	Hold 4 public fora to sensitize the public on the activities of the Rent Tribunal	Six (6) sensitisation for a were held	The objective of holding these fora is educate the public on Tribunal services
	Establish 4 rent restriction tribunal stations at satellite locations	4 rent restriction tribunal stations at satellite locations	These satellite stations decentralise RRT services
Energy			
Programme Name: Energy Dev Programme Outcome: Improve			
Sub-Program 1: Rural Electrification	To provide solar PV systems in 60 public institutions in ASAL areas	124 installed with PV systems	Set target was achieved and even surpassed
	Construct 8 new mini grids and associated diesel power generation stations in ASAL	Civil work for 8 mini grids completed	Tenders for installation of machines was cancelled and advertised afresh.

Programme/ Sub-programme	Intended Output	Output Achieved	Remarks
Zaz programmo	To electrify 880 markets and public institutions	1,714 markets and public institutions connected	Targets achieved and exceeded
Sub-Programme 2: National Grid System Enhancement & Development	Connect 200,000 households with electricity	220,000 households connected	The target was exceeded due to increased funding from initial Kshs 2.5 billion to Kshs 3 billions.  100,000 connections were done under Rural Electrification programme.
	Project preparation for 260km 400kV Line Singida - Arusha - Nairobi Transmission line constructed	Project preparation and award of tender for construction	Bids invited Tenders to be opened in February 2010.
	Project preparation and mobilization of finances for 686km 500kV HDVC, 400kV sub-station to import 300 MW Ethiopia – Suswa Interconnector constructed	Feasibility study completed. Bids for construction being prepared	
	Project preparation and mobilization of finances 200 Km 220 KV Olkaria - Lessos Transmission Line	Feasibility study updated and EIA prepared.	
	Bidding process for 200 Km 220 KV Lessos - Tororo Transmission Line	Bidding process on going	
	200 km of 1500 Km 132KV Back- Bone Transmission Lines	Grid extended by 90 km	
Sub-Programme 3: Exploration and development of geothermal energy resources	Construction of 35MW Olkaria II third unit	Construction of 35 MW unit completed	Targets achieved
	Drill 6 geothermal production wells for 140 MW Olkaria I capacity enhancement	6 production wells drilled Optimization study completed indicating additional 140MW available	Targets achieved
	Drill 10 geothermal production wells for 140 MW Olkaria IV power plant	10 production wells drilled Optimization study completed indicating additional 140MW available	Targets achieved

Programme/ Sub-programme	Intended Output	Output Achieved	Remarks
Sub-Programme 4: Exploration, exploitation, distribution, infrastructure enhancement and substitution of fossil energy	Drilling of 15 coal appraisal wells	20 coal appraisal wells were drilled	First well started on 2/7/09 and the last well completed on 2/8/2010
resources	Procure of JV partner. Construction of 300MW coal fired power plant to start	JV partner procured	KCAA has denied permission to construct the plant at Dongo Kundu. New site for plant is being sought
	contractor mobilization and commencement on construction of 325 km 14 inch oil pipeline from Nairobi to Eldoret	agreements prepared tenders awarded awaiting signing negations with lenders on- going	there has been delays in obtaining financing for the project
	Completion of project scoping phase for 352 km 10-inch diameter oil pipeline from Eldoret to Kampala constructed  Finalization of land valuation	§ Tenders evaluated and contract awarded. § Detailed engineering design on going. § Draft project agreements prepared	§ Following discovery of oil in Uganda, consideration of having a reversible pipeline being considered. § Final investment decision not yet done by the project developer
	Award tender and begin construction of 6,000 tonnes bulk LPG storage 12-inch LPG from Kipevu to Changamwe for distribution constructed.	Technical and financial evaluation done and report being finalized	The new shareholders of KPRL(ESSAR) have requested for information to understand the basis of the project
	Award tender and begin construction of 2,000 tonnes LPG storage and distribution facilities in Nairobi constructed  Assess petroleum	Sourced Joint Partner (BPCL)  Assessment carried and a	There has been delays in finalizing project business plan and the preliminary engineering design by BPCL Sedimentary basin
	potential in Nyanza Tertiary Rift.	report produced	with potential identified.
Sub-Programme 5: Wood fuel Resources Development	Increase acreage on wood fuel plantations by 1400 hectares	1400 Hectares achieved	Target achieved
	Increase households using energy saving stoves & charcoal	50%	Target achieved

Programme/	Intended Output	Output Achieved	Remarks
Sub-programme			
	kilns from 47% to 50%		
Sub-Programme 6: Development of Renewable Energy Technologies	Increase solar power generation by 75 Kwp	260Kwp solar PV installed	Targets achieved and even surpassed
	Project preparation for 300 MW Wind Power Plant in Marsabit	Project preparation progressed	§ Project preparation on going
	§ Signing of PPA with KPLC § Award of tender for construction of plant	PPA negotiations approved	§ PPA negotiations have been approved by E.R.C.
	Increase wind power generation by 5.1 MW at Ngong	5.1 MW achieved	Targets achieved earlier than scheduled
Sub-Programme 7: Energy Efficiency Enhancement	Three investment grade energy audits in industrial establishments	Carried three audits	Target achieved
	Carry out a sector Environmental and Social Impact Assessment studies	Study carried out and report produced	Target achieved
	Carry out feasibility study on liquefied natural gas Plant and import facility	Sourcing for a consultant to carry out the study	Target achieved
Local Government	<u> </u>		
Programme Name: Local Authority			
Programme Outcome: Improved in		gement in Local Authorities	
Sub- Programme 1: Urban and Cou	Reconstruction of 92.37km of access	60.67 km completed and under use	Inadequate funds
	roads to bituminous standard	under use	
	Completion of 8 bus parks	6 Bus parks completed	Inadequate funds
	Pilot Geographical information System (GIS)	Base maps, attribute data Prepared	
	Develop urban Strategic plan, Digital Mapping and Planning of 23 urban centres	-Five (5) completed and launched	Inadequate funds
	Develop National urban development policy	Draft concept paper	Concept paper awaiting cabinet approval

Programme/	Intended Output	Output Achieved	Remarks		
Sub-programme					
	Carry out solid	Two completed	Inadequate funds		
	waste management	r	1		
	studies in four (4)				
	major towns.				
	Construction of 8	4 kms of storm water	Inadequate funds		
	kms of storm water	drainage constructed	_		
	drainage				
	Rehabilitate 9	Tender awarded for two	Delay in		
	primary schools in	schools	procurement due to		
	poor urban areas		donor		
			conditionalities		
	Upgrade Physical	One completed	Four (4) awaiting		
	and social		Donor no objection		
	infrastructure in				
	five (5) informal				
	settlements	D 10 11 11	T 1 . C		
	Purchase five (5)	Procured 3 and handed over	Inadequate funding		
	fire ambulances for 5 LAs				
Sub- programme 2:Market Develop		l			
Sub- programme 2: Warket Develop	Carry out	3 feasibility studies done	Inadequate funds		
	feasibility studies	3 leasibility studies dolle	madequate runds		
	for 10 wholesale				
	Market hubs				
	Construction of 10	Construction of five (5)	Inadequate funds		
	wholesale markets,	commenced	madequate rands		
	Construction of 43	14 completed	Inadequate funds		
	retail markets,	- · · · · · · · · · · · · · · · · · · ·	madequate rands		
	Construction of 4	One completed and one	Inadequate funds		
	hawkers markets	under construction	Thatequate rands		
	Construction of	Construction of 210 ESP	Validation of CDF		
	210 Economic	markets commenced	tender award		
	Stimulus markets				
	(ESP)				
Sub- Programme 3: Local Authori	ty Management and A	Advisory Services			
	175 LAs on	175 LAs Performance			
	Performance	contracts signed			
	contracts				
	Undertake 20	34 Audit inspections			
	Audit inspections	undertaken			
	Implementation of	175 LAs on RRI			
	RBM (RRI) in 175				
	LAs	2000 4 4 177			
	2000 ex street	2000 street children			
	children	rehabilitated			
	rehabilitated Review and	CEDTE Charteries -1			
	Launch of SFRTF	SFRTF Strategic plan launched			
	5 year Strategic	launched			
	Plan				
	Support the	Drop in centres in nine (9)			
	implementation of	towns supported			
	Drop-in-centres in	towns supported			
	Nine (9)				
	Leasing of the	Centre leased	There is intention		
	Nyeri Children and	Contro reaseu	of purchasing the		
	Youth Centre.		centre		
	1 outil Contro.	ı	Contro		

Programme/	Intended Output	Output Achieved	Remarks	
Sub-programme				
Sub – Programme 4: Reform in Lo	ocal Government.		,	
	Development and dissemination of Governance and Service Delivery Tools in 15 LAs	Service delivery tools developed and disseminated in 15 LAs	EU contract ended in September, 2010 More funds needed to disseminate the tools to the remaining LAs(160)	
	Develop LGSRS (Local Government sector reform Strategy)	LGSRS (Local Government sector reform Strategy) developed		
	Implementation of Higher Performance Account in 175 LAs	Higher performance account implemented in 175 LAs		
Nairobi Metropolitan Developmen				
<b>Programme:</b> Metropolitan infrastructure, <b>Outcome:</b> : Improved infrastructure,	security and quality of	life in NMR		
Metropolitan mobility and transpo				
Rehabilitate Metropolitan Roads	10 km bitumen road rehabilitated	5 km bitumen road rehabilitated	To run for 2 financial years	
Traffic management	2 junctions within metro CBD signalized	2 junctions signalized		
	To prepare 4 documents for decongestion tendering process	Tendered 4 number projects for decongestion	To implement this financial year	
Metropolitan infrastructure & util				
Housing& slums reduction	Preparation of 13 advisory plans for slums in the Metro Region	Advisory plans for 13 slums in place	Done	
	Conduct 1 pilot housing study	1 slum reduction pilot housing study done	Done	
Water & sewerage works	Relocate water and sewerage line along Thika road in liason with Nairobi water Company	Truck line relocated	No cost was incurred by the Ministry	
Metropolitan planning, promotion		Research Sub-Programme	Ιο .	
General administration	Improvement of work environment	Offices completed	On going	
	Staffing levels Improved Governance	Approved establishment Implemented policies	Ongoing Ongoing	
	MTEF policy direction	Ministerial Budget	Ongoing	
	Improved service delivery	Ministerial service delivery charter developed	Awaiting Dissemination	
Land use Planning	Preparation of Metro spatial plan	Draft Metro spatial plan in place	Ongoing	
Nairobi metropolitan board	Oversight for the metropolis	Draft metro by law By laws compendium	Not done	

Programme/	Intended Output	Output Achieved	Remarks
Sub-programme			
		Database on report	
		Workshop reports	
Safety and Security Sub-Programm	ne		
Installation of security floodlights	Install 300 Street	300 number of Street light	
	light	installed and 24 hours	
		guaranteed security	
Procurement of fire fighting	Procure 10 fire	10 fire engines and 5	
engines and ambulances	engines and 5	ambulances procured	
	ambulances	_	
Creation of Nairobi metropolitan	Procure vehicles	10 vehicles procured for	
police	for rapid response	rapid response of the police	
	of the police		

# 2.2 Key Indicators of Sector and Sub-Sector Performance

#### **Roads**

Key indicators and their performance in the Sub Sector are as follows;

- No of Kilometres of Roads and Bridges Constructed
- No of Kilometres of Roads and Bridges Rehabilitated
- No of Kilometres of Roads and Bridges Maintained
- No of Designs of Roads and Bridges
- No of Graduates in Capacity building to improve local construction capacity
- No of Kilometres of Roads and Airstrips maintained in Game Parks and National Reserves

#### **Transport**

- Docking of Panamax vessels
- % reduction in road accidents and fatalities (number of accidents and fatalities on monthly or on annual basis)
- Number of rehabilitated and maintained airstrips across the country
- Number of operational international airports
- Percentage of freight by rail from the port of Mombasa in relative to the freight on road
- Reduction of the cargo dwelling time at the port
- Number of air accidents investigations reports
- Feasibility study report for the Lamu port Southern Sudan Transport Corridor
- Number of berths in the port of Lamu
- Transport data centre established
- Light Railway Line constructed within the City

#### **Public Works**

Key indicators and their performance in the Sub Sector are as follows;

- Number of stalled Government building projects completed
- Number of Design, documentation and supervision of new Government Buildings
- Number of Government buildings constructed and Maintained
- Kms of coastline infrastructure constructed and Maintained
- Number of design documentation and construction of foot bridges
- Number of construction standards and research done

#### **Housing**

Sub-sector performance as highlighted in section 2.1 above has the following key indicators;

- Number of physical and social infrastructure installed in slums and informal settlements.
- Number of Constituency Appropriate Building Technology Centres established.
- Numbers of Acres opened up for housing development through housing infrastructure development.
- Housing development initiatives.
- Number of refurbished and secured government houses.
- Number of resolved rent tribunal cases.

## **Energy**

- Number of solar electricity generators (PVs) installed in public institutions and facilities:
- Number of mini grids and associated diesel power generation stations constructed
- Number of public institutions and market centres connected with electricity;
- Number of new households connected with electricity;
- Number of kilometres of transmission and distribution lines constructed;
- Number of substations constructed / rehabilitated;
- Number of exploration and production geothermal wells drilled;
- Construction of 35MW Olkaria II third unit;
- Drilling of 15 coal appraisal wells;
- Construction of 300MW coal-fired power plant;
- 352 km 10-inch diameter oil pipeline from Eldoret to Kampala constructed;
- Tender for construction of 2,000 tonnes LPG storage and distribution facilities in Nairobi awarded;
- Acreage of wood fuel plantations increase d by 1400 hectares
- Number of households using energy saving stoves & charcoal kilns increased

#### LOCAL GOVERNMENT

- Number of markets/wholesale hubs constructed
- Number of Kms of access road constructed
- Number of bus parks constructed
- Number of reforms institutionalized in LAs
- Number of LAs put under performance contracting

#### **METROPOLITAN**

#### Access, mobility and connectivity through effective transportation

- Pedestrianisation (NMT-4KM)
- Plan and design Pedestrianisation Thika and Mavoko Municipalities
- Number of Bitumen road constructed
- Urban traffic control for management of traffic in the city of Nairobi
- Number of metropolitan spatial plan
- Number of physical development plans within NMR
- Number of strategic environmental assessments for landfills in NMR
- Metropolitan observatory and resource centre (MO & RC).
- Number of refuse truck for MLAs

- Established parks and Metro Square Programme (Metro tower & Metro squares).
- Number of street/public lights installed in various parts of the NMR
- Number of fire officers trained in the NMR on fire disaster preparedness/management and fire drills and lectures
- Property and street addressing within NMR
- Number of ambulances and fire engines/ land Rover procured

#### 2.3 Expenditure Analysis

#### 2.3.1 Analysis of Recurrent Expenditure

**Table 2.2: Analysis of Recurrent Expenditures for the Sector (Kshs. Millions)** 

	Approved Estimates			Actual Expenditures			
Sub-Sectors	2007/08	2008/09	2009/10	2007/08	2008/09	2009/10	
Roads	24,400	21,159	21,852	17,277	20,647	20,969	
Transport	4,021	3,214	3,389	3,937	3,191	3,286	
Public Works	792	991	1,671	709	929	1232	
Housing	1,766	1,715	1,836.5	1,293	1,433	1,515.3	
Energy	322	365	409.3	290	348	362	
Local Government	1,005	1,296	11,348	963	1,078	11,330	
Nairobi Metropolitan Development	42	268	338	39	266	299	
TOTAL	32,348	29,008	40,843.8	24,508	27,892	38,993.3	

The table above indicates that both the approved recurrent expenditure budget on Physical Infrastructure Sector increased from Kshs. 32,348 million in 2007/08 financial year to Kshs. 40,844 million in 2009/10 FY. The total actual recurrent expenditure increased from 75.7 per cent in 2007/08 to 95.5 in 2009/10. The upward trend in recurrent expenditure has been due to the increase in the Road Maintenance Fuel Levy Fund levied on petroleum products. Expenditure on roads constituted 54 per cent and 53.8 per cent of the total approved and actual recurrent physical infrastructure expenditure respectively for the FY 2009/10.

The trends in expenditure analysis indicate that there has been a general underutilization of recurrent expenditure. Between 2008/09 and 2009/10, the average underutilization of recurrent expenditure funds stood at 4.5%. The underutilisation is attributed to: Slow and bureaucratic procurement procedures particularly for road maintenance projects which are not synchronized with flow of funds; Delayed exchequer releases especially towards the end of the financial year and in some cases lack of the exchequer releases; and Breakdown of the IFMIS system especially towards end of the financial year when a number of transactions usually delayed due to procurement procedures are being affected.

#### 2.3.2 Analysis of Development Expenditure

**Table 2.3: Analysis of Development Expenditures for the Sector (Kshs. Millions)** 

	Approved Estimates			Actual Expenditures		
Sub Sectors	2007/08	2008/09	2009/10	2007/08	2008/09	2009/10
Roads	33,682	46,437	58,491	24,597	36,279	36,577
Transport	4,789	2,482	5,792	3,324	2,013	3,548

	Approved Estimates			Actual Expenditures		
Sub Sectors	2007/08	2008/09	2009/10	2007/08	2008/09	2009/10
Public Works	1,705	2,287	3,971	1,454	2,137	3,007
Housing	1,364	2,066	2,074	1,284	1,900	2063
Energy	21,075	31,260	33,118	17,704	30,560	32,513
Local Government	2,973	2,375	4,556	2,796	2,057	1,988
Nairobi Metropolitan Development	0	1,650	1,420	0	1,150	1,144
TOTAL	65,588	88,557	109,422	51,159	76,096	80,840

The approved and actual development expenditure budget on Physical Infrastructure Sector has been increasing since 2007/08 financial year as presented in the table above. The total approved expenditure increased from Kshs 65,558 million in FY 2007/08 to Kshs. 109,422 million in FY 2009/10. The total actual expenditure increased from 51,159 million in 2007/08 to Kshs 80,840 million in 2009/10. Expenditure on Roads and Energy accounted for 83.7 per cent and 85.5 percent of the total approved and total actual Development expenditure for the FY 2009/10.

The increased allocation in the original and actual expenditure was in line with Government commitment and recognition of the country's infrastructure including roads, airports, ports, energy generation and supply as being the foundation of the Kenya Vision 2030. The trends in expenditure analysis indicate that there has been a general underutilization of development expenditure. Between 2007/08 and 2009/10, the average underutilization of development expenditure for the period under review stood at 28.7%. The underutilisation is attributed to: Procurement challenges particularly donor funded projects; Inadequate counterpart funding which affects the expenditure on the donor component; and Delayed exchequer releases and disbursement of funds from development partners.

## 2.3.3 Analysis of Externally Funded Programmes

**Table 2.4: Analysis of Donor Funded Programmes (Kshs. Millions)** 

	Approved	d Estimates		Actual Ex	xpenditure	
	2007/08	2008/09	2009/10	2007/08	2008/09	2009/10
Roads						
Revenue	2,980	1,140	1,099	1,644	857	465
AIA	14,070	20,813	27,022	7,375	14,869	14,070
Sub-total	17,050	21,953	28,121	9,019	15,726	14,535
Transport						
Revenue	2,980	1,140	1,099	1,644	857	465
AIA	493	271	1,701	80	140	166
Sub-total	3,473	1,411	2,800	1,724	997	631
Housing						
Revenue	0	0	0	0	0	0
AIA	8	25	50	8	25	50
Sub-total	8	25	50	8	25	50
Energy						
Revenue	1,959	2,119	1,693	856	2,119	1,699
AIA	5,269	6,382	6,352	3,288	5,412	6,240
Sub-total	7,228	8,501	8,045	4,144	7,531	7,939
<b>Local Government</b>		·				
Revenue	173	113	784	173	113	784
AIA	630	1,088	655	630	1,088	655

	Approved Estimates			Actual Ex		
	2007/08	2008/09	2009/10	2007/08	2008/09	2009/10
Sub-total	803	1,201	1439	803	1,201	1439
TOTAL	28,562	33,091	40,455	15,698	25,480	24,594

The table above shows that approved external funding has been increasing over the period under review. The approved external funding increased from Kshs. 28,562 million in 2007/08 to Kshs. 40,455 million in 2009/10. The total actual external funding increased by 56.7 per cent from Kshs 15,698 million in 2007/08 to Kshs. 24,594 million in 2009/10. The major beneficiaries were; Roads and Energy sub-sectors accounting for 59 and 32 per cent respectively during 2009/10 FY. The funding was mainly for the improvement of road network and energy projects.

## 2.4 Review of Pending Bills

### 2.4.1 Recurrent Pending Bills

Table 2.5: Analysis of Recurrent Pending Bills (Kshs. Millions)

Sub Sector	Due to	Lack of li	quidity	Due to Lack of provision		
	2007/08	2008/09	2009/10	2007/08	2008/09	2009/10
Roads	25	152	126	59	377	389
Transport	0	3	33	0	0	0
Public Works	5	52	7	0	5	0
Housing	53	0	7	0	0	0
Energy	0	0		0	0	0
Local Government	0	0	0	0	0	5
Nairobi Metropolitan	0	0		0	0	0
TOTAL	83	207	290	59	382	394

### 2.4.2 Development Pending Bills

Table 2.6: Analysis of Development Pending Bills (Kshs. Millions)

Sub Sector	Due to La	ck of liquid	dity	Due to Lack		
	2007/08	2008/09	2009/10	2007/08	2008/09	2009/10
Roads	0.4	0.5	1,801	6,000	9,000	10,000
Transport	0	0	0	0	0	0
Public Works	943	113	0	0	300	740
Housing	21	0	2	0	0	0
Energy	0	0	0	0	0	0
Local Government	0	0	0	0	0	844
Nairobi Metropolitan	0	0	0	0	0	0
TOTAL	964.9	113.5	1,803	6,690	9,633	11,584

In FY 2009/10, the total pending bill for the sector was Kshs.14, 071 million. Bills on the development vote were Kshs. 13,387 million while for recurrent was Kshs. 684 million. Roads, Public Works, Housing and Local Government sub-sectors contributed the sector's pending bills in both Development and Recurrent. Most bills emanates from backlog in payment of claims towards closure of financial year. Over the last four years, there has been

remarkable improvement in settling pending bills in recurrent vote due to prudent financial management. However, the trend has been rising mainly as a result of delayed payments for contracted civil works and professional services, variation of contracts, austerity measures and delays in exchequer releases to facilitate payments in the development vote. Notably some of the pending bills captured in the table have been settled. The Kenya Urban Transport Infrastructure Project (KUTIP) bill came about as a result of the suspension of the credit However, the credit arrangement came to a close on 30th June 2005. arrangement. Notwithstanding the closing of credit agreement the government had a contractual obligation to pay for the works done and certified. The conditions of the contract had spelt out that the employer shall pay contractor the amount certified by the project manager within 21 days of the date of each certificate. If the employer makes late payment, the contractor shall be paid interest on late payment in the next payment. Interest shall be calculated from the date by which payment should have been made up to the date when the late payment is made at the prevailing rate of interest for commercial borrowing for each of the currencies in which payment is made. The last time Treasury authorized payment of KUTIP bills was 2008/09 as at 31st march 2009 KUTIP bills was standing at Kshs. 300Million, since it has continued to remain outstanding it is accruing interest and likely to create litigation cases.

# CHAPTER THREE: MEDIUM TERM PRIORITIES AND FINANCIAL PLAN FOR THE MTEF PERIOD 2011/12-2013/14

# 3.1 Prioritization of Programmes and Sub-programmes

# 3.1.1 Programmes and their Objectives

Table 3.1: Programmes and their Objectives

Programme	Objectives
Roads	Objectives
Road Development, Maintenance and	To expand, rehabilitate and maintain the road
Management Management	network in addition to building capacity for road
Trianagement	construction
Transport	Construction
Transport Management and Safety	To develop and review policies and regulatory
Transport Tranagement and Surety	guidelines that guarantee provision of efficient, safe
	and reliable transport services
Transport Infrastructure Development	To develop, expand and modernise Transport
	Infrastructure System to facilitates efficient trade
	and mobility
Public Works	1
Government Buildings	To provide a better Working Environment and
	ensure efficient use of Government Investment.
Coastline Infrastructure and pedestrian access	To improve accessibility to coastal towns,
	neighbouring island and areas of difficult Terrain.
Procurement, Warehousing and Supply	To ensure efficient utilization of common user
, 2 11 3	items
Construction Standards and Research	To ensure provision of improved building materials
	and methods in construction
General administration and planning support	To provide policy guidelines, coordination and
programme	provision of support services
Housing	
Housing Development and Human Settlement	To facilitate access to decent and affordable
Programme	housing and improved living conditions in informal
	settlements in urban areas, improved quality shelter
	in rural areas and efficient and effective managed
	government estates / plots
Energy	
National Electrification Programme	Increase Access to Electricity
Renewable Energy Resources Programme	Development of Renewable Sources of Energy
Petroleum Exploration and Distribution	Security of Fossil Fuel Resources
Programme	
Centralised Support Services Programme	Performance Improvement
Local Government	
Local Authority management and development	To enhance good governance and service delivery
	in LAs
Nairobi Metropolitan Development	
Metropolitan infrastructure and services	To enhance infrastructure connectivity and
	accessibility, safety and security that facilitates
	within the metropolitan area.

# 3.1.2 Programmes, Sub-programmes, Expected Outcomes, Outputs and Key Performance Indicators for the Sector

Table 3.2: Programmes, Sub-programmes, Expected Outcomes, Outputs and KPI

Programme/Sub-programme	Key Outputs	Key Performance Indicators
Roads	v ±	v
Programme: Road Development, Ma	intenance and Management	
Programme Outcome: Efficient and		
Construction of Roads and Bridges	500 Kilometres constructed	No. of kilometres of roads constructed
Rehabilitation of Roads and Bridges	650Kilometres rehabilitated	No. of Kilometres rehabilitated
Maintenance of Roads and Bridges	52,245 Kilometres maintained	No. of Kilometres maintained
Design of Roads and Bridges	10 designs completed	No. of designs completed
Capacity building to improve local construction capacity	350 graduates trained	No. of successful graduates
Construction and maintenance of	2 airstrips constructed to bitumen	No. of airstrips Constructed
airstrips in Game Reserves and	standard and operationalized	•
National Parks	26 airstrips maintained	No. of airstrips maintained
Routine Maintenance of Roads in Game Parks and National Parks	500km	No. of km of roads maintained
Transport	I	
Programme 1: Transport Managemen	nt and Safety	
Programme Outcome: Efficient and		
General Administration Planning and Policy Development	Developed 50 year National Transport master plan	50 year transport master plan developed
	Finalized Mass Rapid Transport Systems report	Consultancy report on the Mass Rapid Transport System
	Transport Policies, guidelines developed and legislations initiated.	Number of Transport Policies, guidelines and legislations.
	Developed Transport Integrated Management System	Functional Integrated Transport System
	Developed Transport Data Centre	Fully operational data centre
Marine Transport Services Management	5 Kenyan trained in sea farers	Number of Kenyans trained in seafarers
	4 Maritime Conventions Ratified and domesticated	Number Maritime convention ratified and domesticated
	10 Awareness campaigns on maritime industry	Number of awareness campaigns undertaken
	9 Maritime bills Reviewed	Number of Maritime bills Reviewed.
	Updated and modernized Maritime	Number of Bills with
	Laws	incorporated International
		Maritime Conventions
Road Transport Safety	Reduced Road Accidents and	% reduction in number of Roads
	Incidences by 50%	Accidents and Incidences
	Established National Road Safety	Established semi-autonomous
	Authority	Authority
	Developed road crash data management	Road crash data management
	system	system developed
	210 road safety awareness campaign	Number of road safety

Programme/Sub-programme	Key Outputs	Key Performance Indicators
		campaigns
	Documentation of all the black spots	Documented list of all black
	across the country	spots in the country
	Erection of road studs in all black spot	Number of roads sections with
	areas	roads studs at black spot areas
Rail Transport Services	Improved Efficiency in Railway	% Increase of tonnes of Cargo
Management	Transport Services	transported by rail
_	_	% Increase of people using
		railway transport annually
Air Transport Services Management	Air accidents investigations reports	Number of air accidents reports
		against the total number of air
		accidents occurred
	Maintained secure and safe airspace	Number of International Airlines
		using our airports/airspace
	6 Airstrips Rehabilitated	No. of airstrips rehabilitated
	2 New BASAs negotiated and	Number of new BASAs
	concluded	negotiated and concluded
	3 Air Services Conventions and	No. of protocols and convention
	Protocols Ratified	ratified
D A.T. L.C.	9 existing BASAs reviewed	Number of BASAs reviewed
Programme2: Transport Infrastructu		
Programme Outcome: Sustained ed Development of Air Transport	Expansion of Kisumu International	Expanded Kisumu International
Infrastructure	Airport	Airport
mnastructure	Constructed	Completed terminal building
	Terminal building at Jomo Kenyatta	Completed terminal building
	International Airport	
	Constructed Second runway at Jomo	Second operational
	Kenyatta International Airport	Runway constructed
	Improved and modernised Jomo	% Increase in annual handling
	Kenyatta International Airport	capacity from the current 2.5
		million passengers
	Expanded runway facilities of the 40	Number of runway facilities
	airstrips	expanded
	Developed Aircraft Accident	Operational Aircraft Accident
	Investigation Laboratory	Investigation Laboratory.
Development and Expansion of	Dredged Mombasa Port to 16 Metres	Number of metres dredged
Ports facilities		Docking of post panamax
	Destruction Total Destruction 2 000 const	vessels
	Duty Free Trade Port on 3,000 acres land at Dongo Kundu	Detailed Dongo Kundu development master plan
	land at Dongo Kundu	development master plan
		Detailed engineering design for
		the duty fee trade port
		Actual construction work
	Expanded Mombasa Container	Number of TEUS in million
	Terminal facilities to a capacity of 1.2	handling capacity
	million TEUSs per annum	
	Single window System Established	Established single window
		System
Development of Railway network	Feasibility study for the Standard	Feasibility Study Report
•	Gauge Railway Line (Mombasa to	
	Malaba 1200 km)	
	Upgraded existing Railway Line to	Number of Kilometres of
		existing Railway Line upgraded
	Standard Gauge (Mombasa to Malaba	chisting Kanway Line upgraded
	1200 km)  Constructed Light Rail Line.	to Standard Gauge  Number of Kilometres of Light

Programme/Sub-programme	Key Outputs	Key Performance Indicators
Trogrammo duo programmo	Interchange Link from JKIA- CBD	Rail Constructed in every route
	15.6 km	
	Thika Town-CBD 50 km	
	Athi River-CBD	
	Kikuyu Town- CBD	
	Detailed design report for the first 3	Detailed design for the first three
	berths in Lamu Port	berths
	3 Berths Developed in Lamu Port	Number of berths developed in Lamu Port
	Completed Lamu Port Southern Sudan-	LAPSSET study report
	Ethiopia(LAPSSET) Transport Corridor study	
	40 Metres Railway Reserve area	Number of Metres of Railway
	secured	Reserve secured
	40 Metres Secured Railway Reserve	Number of Metres of Secured
	area fenced	Railway Reserve area fenced
Public Works		
Programme: Government Buildings	F	· •
	ng Environment and Efficient use of Gover	
Completion of stalled projects	20 projects to be constructed.	Number of Projects Completed
Refurbishment/maintenance of buildings	100 building to be refurbishment and maintained.	Number of Projects Completed
Construction of new Buildings	80 projects to be completed	Number of Projects Completed
Electrify of government Building.	50 units to be electrified	Number of Projects Completed  Number of units electrified
Provide lightening protection in	15 premises to be protected	Number of premises protected
government building	To promises to be protected	Reduced incidence of lightening.
Installation of PABX'S in	5 PABX to be installed	Number of PABX'S Installed
government offices and institution		
<b>Programme:</b> Coastline Infrastructure		
Programme Outcome: Improved acc		
Construction and Rehabilitation of	One jetty to be constructed two jetties to	Number of jetties Completed
jetties	be rehabilitated in Lamu and Kwale counties.	
Construction and Rehabilitation of seawalls	1760 meters of seawall to be completed	Meters of Sea wall Completed
Construction of footbridges	200 foot bridges to be constructed	Number of footbridges Completed
Programme: Procurement, warehous	ing and supply	
Outcome: Efficient utilization of com		
Procurement, warehousing and supply	45 Term Contracts Procured	Number of Term Contracts Procured
<b>Programme:</b> Construction Standards		
Outcome: Improved building materia		
Construction Standards and	3 areas of buildings research	Number of research topics
Research	undertaken	completed
Housing	LIV Cod	
Programme: Housing Development:		ammal sattlamanta in value areas
	sing and improved living conditions of info and efficient and effective managed gover	
Housing Development	30 constituency Appropriate	No. of constituency ABTs
Troubing Development	Building Technologies (ABTs)	Centres established
	Centres established	Cond of Osmonshod
	• 2300 new trainees in use of ABTs	No. of trainees trained on
	Review progress in the	use of ABTs
	implementation of approved	No of sensitization
	housing sector incentives.	workshops held
	Comprehensive national housing	Survey report
	survey	

Programme/Sub-programme	Key Outputs	Key Performance Indicators
	Design and construct 400No. housing units at Kibera Soweto East village Zone A	No. of housing units
	Design and construct 400 housing units, one primary school, one nursery school, one social hall, one market centre and one health centre in Mavoko, Athi River	<ul> <li>No. of housing units</li> <li>No. of social infrastructure facilities</li> </ul>
	Development and rehabilitation of 7 social and physical infrastructure in main provincial towns	No. of social and physical infrastructure facilities
	Operationalise 50 housing cooperatives in informal settlements	No. of housing cooperatives
	Mobilise Kshs.15 M from operational housing cooperative	Amount of savings in Kshs.
	Implementation of Kenya Informal Settlements Improvement Programme (KISIP) in 10 informal settlements	<ul> <li>Project Appraisal Document (PAD)</li> <li>No. informal settlements with improved infrastructure and tenure status</li> </ul>
	<ul> <li>100 acres of land opened up for housing development in nine (9) towns</li> <li>20 km of trunk sewerage lines in 5 provincial towns</li> <li>10 km of water line in 5 provincial towns</li> <li>70 km access roads to bitumen/murram standards in Nairobi</li> </ul>	<ul> <li>No. of acres of land opened up</li> <li>No. of km of housing infrastructure</li> <li>No. of km of roads</li> </ul>
	2,000 housing units developed/ purchased under Civil Servants Housing Scheme	<ul><li>No. of housing units developed</li><li>Amount of loans disbursed</li></ul>
Estates Management	7,500 government housing units refurbished	No. of Government housing units refurbished
	900,000 sq ft of office space acquired in Nairobi	No. of additional office space in sq ft
	4,650 plots/estates secured	No. of estates/plots with Government houses secured
	100% registration of Government houses	No. of govt houses registered
	Maintenance of civil works i.e. upgrading infrastructure in government estates e.g. sewerage systems	No. of upgraded infrastructure
	Building register and housing data inventory computerized	Soft copy of building register and inventory
	Offices provided to more district stations	No. of offices available
	Maintenance policy formulated Building Laws and Regulations Finalised	Policy Building Laws and Regulations
	Timely resolution of Rent Tribunal cases  5 public fora to sensitize public on Rent	Time taken to dispose of cases after closure of defence hearing No. of fora
Energy	Tribunal activities 2 defunct RRT stations revived	No. of RRT stations revived

Programme/Sub-programme	Key Outputs	Key Performance Indicators
National Grid System	1. <b>90 km</b> Chemosit – Kisii 132 kV line	Number of kms of power
	2. <b>60 km</b> Kisii – Awendo 132 kV line	transmission lines constructed,
	3. <b>93 km</b> Kamburu – Meru 132kV line	rehabilitation and energised
	4. <b>320 km</b> Rabai – Garsen – Lamu 220	
	kV line	
	5. <b>450 km</b> Mombasa – Nairobi 400 kV	
	line	
	6. <b>180 km</b> Kilimambogo – Githambo 132 kV line	
	7. <b>50 km</b> Thika – Kiganjo 132 kV line	
	8. <b>110 km</b> Nanyuki – Nyahururu line	
	132 ky	
	9. <b>110 km</b> Lessos – Karbanet line 132	
	kv	
	10. <b>100 km</b> Olkaria – Narok line132 kv	
	11. <b>80 km</b> Bomet – Sotik line132 kv	
	12. <b>185 km</b> Mwingi – Kitui – Wote –	
	Sultan Hamud line 132 kv	
	13. <b>70 km</b> Iciara – Kieni – Embu line 132 kv	
	132 kV 14. <b>233 km</b> Lessos – Tororo line220 kV	
	15. <b>200 km</b> Kindaruma – Mwingi -	
	Garissa line220 kv	
	16. <b>60 km</b> Kitale – Eldoret line132 kv	
	300,000 additional customers	No. of customers connected
	connected	
	Policy Paper on Nuclear Energy	Policy document on Nuclear
	Descrit on Electric records	Energy
	Report on Electric power system stability study	Electric power system stability study report
	300 acres of land acquisition for power	No. of acres of land acquired
	generation using LNG, CNG and Coal	140. of acres of land acquired
	55MW of wind power plant	55MW wind power station
	constructed at Ngong hills	T T T T T T T T T T T T T T T T T T T
	120MW of Emergency power	No. of MW of Emergency
	electricity	power procured
Geothermal and Coal	20 geothermal wells drilled by GDC	No. of Geothermal production
Exploration	and 12 wells by Contractor	wells drilled
	140 MW at Olkaria I	Additional geothermal power by
	140 MW at Olkaria IV	Additional geothermal power by
	140 WW at Olkaria IV	2014
	2 geothermal areas assessed	No. of Geothermal areas
	_ 5-54-6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	assessed
	15 coal exploration holes drilled	No. of Coal exploration holes
	-	drilled
	2 drilling rigs	Procurement of drilling rigs
	Geothermal wells drilling materials	Procurement of geothermal
	procured	drilling materials for Olkaria I &
		IV, Menengai I, II & III steam
	1	fields
D 150 150	1 report on coal reserve assessment	Coal reserve assessment report
Rural Electrification	1000 public institutions connected	Rural public institutions
		connected with electricity
	180 PVs installed	Public institutions installed with
		solar electricity generators (PVs)
		in ASAL areas.

Programme/Sub-programme	Key Outputs	<b>Key Performance Indicators</b>
<b>Programme :</b> Renewable Energy Re	sources	
Programme Outcome: Clean Energy		
Wood fuel Resource Development	320 Ha of trees planted	Acreage of trees planted
	2 new Energy centres established	No. of new energy centres established
	3200 improved cook stoves/charcoal kilns	Households/institutions with improved cook stoves / charcoal kilns
	2 pilot research projects	No. of pilot research projects established
Renewable Energy Technologies	20 wind masts and data loggers; Updated Wind Resource Atlas	No. of wind masts and data loggers installed Updated Wind Resource Atlas
	Feasibility study	Use of solar water heaters in tea factories and abattoirs
	Report on small hydro power sites	Feasibility study on 14 small hydro power sites
	1 Biogas digester installed	Number of Biogas digester installed
	3 Public buildings efficiently lighted (Nyayo House, Harambee House and Treasury Building)	Number of Public buildings efficiently lighted (Nyayo House, Harambee House and Treasury Building)
	Policy on development of biofuels	Number of Policy on development of biofuels
	6 Energy Audit carried out	No. of Industries Audited for Energy efficiency
	2 institutions with biogas digesters	No. of institutions with sewage based biogas digesters
	24 schools with cook stoves	No. of schools with cook stoves
	2 community small hydro power	No. of community small hydro
Programme: Petroleum Exploration	stations c	power stations
	a in the unlicensed blocks to attract investm	nent and increase security of
Petroleum Exploration and Distribution	1 Seismic Survey of unlicensed Blocks carried out	Seismic Surveys report
	1 Gravity Survey of unlicensed Blocks conducted	Gravity Surveys report
	2 petroleum promotion international conferences held	No. of promotional conferences of Petroleum Blocks to international companies
	National Petroleum Data Centre established	National Petroleum Data Centre established
	30% market share for National Oil	Expansion of National Oil market share
	Report prepared	Study on procurement of national strategic stocks of petroleum products
	Regulation enforcement	Maintenance of minimum operational stocks by oil marketing companies
	Standardized values fitted in all LPG cylinders	Accessibility of branded LPG in the market
<b>Programme :</b> Centralised Support Pr	ogramme	

Programme/Sub-programme	Key Outputs	Key Performance Indicators
Programme Outcome: Efficient de	elivery of services	
Administrative Services	Administrative services offered	Efficient administration in the
		Energy sub - sector
	Integrated Energy Sector Information	Ministry linked with its
	Management System	Parastatals
Planning and Project Monitoring	Planning services offered	Efficient planning in the Energy
		sub - sector
Financial Services	Financial services offered	Efficient financial management
		in the Energy Sub - sector
Local Government		
Programme: Local Authority mans		
	and management in Local Authorities	DI CD 1
Sub Programme 1:	Construction of ten(10) bus parks	No of Bus parks constructed
Urban and County Development	Design, Documentation and	Number of design reports, tender
	supervision of 13(hubs, wholesale,	Documents and EIA reports
	retail) markets	prepared.
	Design, Documentation and	Number of design reports, tender
	supervision of 210 Livestock Markets	documents and EIA reports
	1	prepared.
	Development of National Urban	Policy Paper
	Development Policy	
	Development of urban database and	Number of LAs with GIS/LIS
	implementation of GIS / LIS in LAs	
	Upgrading of four (4) Informal	Number of informal settlements
	settlements	upgraded
	Solid waste management studies in two	No. of studies carried out
	towns carried out	
	Construction of forty(40) km of storm	Number of Kilometres
	water drainage	constructed
	Feasibility study on establishment of	Feasibility study report
	Fire and Disaster Management carried	
	out	
	Construction of 102 km of roads	Number of kilometres
		constructed
	Kazi Kwa Vijana(175 LAs) (KKV) /	Number of KM of drainage
	Kenya Youth Empowerment Project in	cleaned,
	39 counties;	No. of trees planted;
	200 km of drainage cleaned;	No. of culverts cleaned;
	Culverts cleaned;	area of bush cleared.
	200 km of bush cleared;	N. I. C.C. III
	Construction of fire and disaster	Number of fire and disaster
	response centres in four (4) counties	response centres constructed
	Purchase of assorted fire fighting	Number of fire equipments purchased
	equipments for 4 LAs Implementation of Kenya Municipal	Monitoring and evaluation
	Programmes (KMP) in fifteen(15) LAs	_
	Flogrammes (KWF) in inteen(13) LAS	reports
	Implementation of Kisumu Urban	No. of schools constructed
	Programme (KUP)	1.5. of Selfoots constitueed
	Construction and upgrading of nine (9)	Number of schools constructed
	Schools in Nairobi and Mombasa	and upgraded
	Sensitization & dissemination of	Number of officers in LAs
	Building code, Standards and safety in	sensitized
	LAs	
Sub Programme 2:	Construction of six (6) Wholesale hubs	Number of Wholesale hubs
Market development	Construction of SIA (0) WHOLESAIC HUDS	constructed

Programme/Sub-programme	Key Outputs	Key Performance Indicators
	Construction of twelve (12) Wholesale	Number of wholesale markets
	Markets	constructed
	Construction of twenty three (23)	Number of Retail markets
	Retail Markets	constructed
	Construction of 210 livestock Markets	Number of livestock markets
		constructed
	Construction of 2,000 Modern Kiosks	Number of kiosks constructed
	in 10 major towns	
Sub Programme 3:	Conduct Thirty four(34) inspections	Number of inspections
Local Authority Management and	7.0	conducted
Advisory Services	Performance contracting in 175 LAs	Number of LAs on Performance Contracts
	Landamentation of DDM(DDI) in I Ac	
	Implementation of RBM(RRI) in LAs	Number of LAs on RRI
	Rehabilitation of 2000 ex street	Number of ex street children
	children	rehabilitated
	Purchase of Model Street Families	Rehabilitation facility purchased
	Rehabilitation Facility Nyeri Children and Youth Empowerment	
	Centre(CYEC)	
	Support 8 street children Drop – in –	Number of Drop- in- centres
	centres	supported
Sub Programme 4:	Installation of LAIFOMS (Local	
Reform in Local Government	Authority Integrated Financial	No. of LAs on LAIFOMS
	Operation Management Systems) in 92	
	LAs Dissemination of Performance	No of LAs implementing the
	improvement tools in 175 LAs	tools(manuals)
	Implementation of Local Government	Level of Implementation of
	reform strategy in LAs	strategy in LAs
Nairobi Metropolitan Development		
Programme 1: Metropolitan Infras		I
Metropolitan mobility and transport	50 Km of strategic roads constructed, and rehabilitated	No. of Km of roads constructed, and rehabilitated
	Develop Metro urban Transport	Urban Transport Information
	Information System	System in place
	50 Signalized junctions in Nairobi	No. of signalized
	Metropolitan Region	junctions
	1 Bus Rapid Transit developed	Bus Rapid Transit developed
		and operational
Metropolitan infrastructure & utilities social and infrastructure	Develop & implement urban – design	An Urban design in place
facilities	Study on Pilot housing project in Thika & Movoko slums elimination	Feasibility report done
identities	2 Pilot Metro market in Thika and	Feasibility report and market
	Kiambu	constructed
	Study on Pilot landfill project at Thika	Feasibility report and project
	& Nairobi in Solid Waste Management	initiated
	20 Water tanks constructed in the	Number of (100-200 m <sup>3</sup> )
	Metro Region  Develop flood mitigation plan	capacity water tanks constructed Flood mitigation plan in place
	Construction of 120 boreholes in water	Number of boreholes sunk
	deficit counties	within the four Metro counties
	Spatial plan for Metro region	Spatial development plan in
		place and implemented
	Develop Metro Region GIS map	GIS map in place and
	Conduct Naingli Materia 12 D	implemented  Essaibility report
	Conduct Nairobi Metropolitan Region	Feasibility report

Programme/Sub-programme	Key Outputs	Key Performance Indicators
	Branding study	
	Develop 3 Metro environmental parks	Number of parks & reserves
	& reserves	developed
Safety and Security sub- programme	Install 67 No. high mast Metro Wide	Number of high mast security
Outcome: A safe and secured	security lighting	lights installed in NMR
Metropolis for 24 hour economy	Install 30,000 No. CCTV for integrated	Number of CCTV Cameras
	urban surveillance system	installed in NMR
	1 No. emergency service control room	Initialize and operationalised
		emergency service control room
	Capacity build 45 officers in	Number of trained officers on
	emergency services	rapid response
	Procure 10 No. ambulances	No. of ambulances procured and
		distributed

## 3.1.3 Programmes by Order of Ranking

- Road Development, Maintenance and Management Programme
- National Electrification Programme
- Government Buildings
- Local Authority Management and Development
- Transport Infrastructure Development
- Housing Development and Human Settlement Programme
- Coastline Infrastructure and Pedestrian Access
- Metropolitan Infrastructure and Services
- Transport Management and Safety
- Renewable Energy Resources Programme
- Petroleum Exploration and Distribution Programme
- Procurement Ware Housing and Supply
- Construction Standards and Research
- Centralized Support Services.

## 3.2 Analysis of Resource Requirement by:-

## **3.2.1** Sector

Table 3.3: Analysis of Resource Requirement (Kshs. Millions)

	Estimates	Estimates	Projected Estimates	
	2010/11	2011/12	2012/13	2013/14
Recurrent	48,229.83	59,791.88	66,097.77	69,800.75
Development	135,470.36	212,705.38	265,513.96	245,729.02
Total	183,700.19	272,497.26	331,611.73	315,529.77

#### 3.2.2 Sub-Sectors

**Table 3.4: Recurrent Resource Requirements by Sub-sector (Kshs. Millions)** 

Sub-sector	Estimates	Estimates	Projected Estimates	
	2010/11	2011/12	2012/13	2013/14
Roads	25,548	31,040	31,659	34,264
Transport	4,430	6,357	9,895	8,922
Public Works	1,470.72	1,827	2,210	2,377.2

Sub-sector	Estimates	Estimates	Projected Estimates	
	2010/11	2011/12	2012/13	2013/14
Housing	977.8	2,170	2,193	2,255
Energy	2,283.31	2,682.88	2,853.77	3,087.55
Local G.	13,201	15,135	16,700	18,300
Nairobi Metro.	319	580	587	595
Total	48,229.83	59,791.88	66,097.77	69,800.75

Table 3.5: Development Resource Requirements by Sub-sector (Kshs. Millions)

Sub-sector	<b>Estimates</b>	<b>Estimates</b>	Projected Estimates	
	2010/11	2011/12	2012/13	2013/14
Roads	79,194	86,276	92,871	96,026
Transport	7,213	13,378	17,676	14,026
Public Works	5,051.50	9,561	8,662	7,318
Housing	2,982.0	11,045.0	11,192.0	11,930
Energy	34,072.86	65,448.38	66,836.96	55,879.02
Local G.	5,799	17,865	19,300	21,700
Nairobi Metro.	1,158	9,132	48,976	38,850
Total	135,470.36	212,705.38	265,513.96	245,729.02

# 3.2.3 Programmes and Sub-Programmes

Table 3.6: Resource Requirements by Programme and Sub-Programme ((Kshs. Millions)

Sub-sector	Estimates	Estimates	Projected	Estimates
	2010/11	2011/12	2012/13	2013/14
Roads				
Programme: Road Development, Main	ntenance and	Management		
Construction of Roads and Bridges	33,820	34,458	47,342	50,300
Rehabilitation of Roads and Bridges	37,112	44,730	45,505	46,035
Maintenance of Roads and Bridges	27,888	31,770	28,608	30,240
Design of Roads and Bridges	5,208	6,208	2,050	2,860
Capacity Building for Road Construction	150	150	195	205
Infrastructure development in National Parks and Reserves	564	1,000	830	650
Total	104,742	118,316	124,530	130,290
Transport				
Programme 1: Transport Management and Safety				
General Administration Planning and Policy Development	589	992	1,142	1,111
Marine Transport Services Management	518	578	609	620
Road Transport Safety	123	1,010	720	737
Management of Rail Transport	150	300	300	300
Air Transport Services Management	2,358	2,720	2,765	2,795
Sub-total for P.1	3,738	5,600	5,536	5,563

Sub-sector	Estimates	Estimates	Projected	Estimates
	2010/11	2011/12	2012/13	2013/14
Programme 2: Transport Infrastructure Development.				
Development of Air Transport Infrastructure	3,251	7,294	12,144	8,494
Development and Expansion of Ports facilities	3,025	1,776	1,176	1,176
Development of railway network	1,629	5,065	8,715	7,715
Sub-total for P.2	7,905	14,135	22,035	17,385
TOTAL	11,643	19,735	27,571	22,948
Housing	1	•		
Programme: Housing Development and Human Settlement Programme				
Sub-Programme 1: Housing Development	2,617.50	10,385.00	10,573.00	11,035
Su-Programme 2: Estates Management	1,342.30	2,830.00	2,812.00	3,150
Total	3,959.80	13,215	13,385	14,185
Public Works				
Programme 1: Government Buildings				
Sub Programmes				
Completion of stalled projects	4,285.60	5,600	5,471	5,100
Refurbishment/maintenance of projects	179.4	80	292	500
Construction of New Buildings	236.6	1,785	1,335	1,072
Total for Government Buildings	4,701.60	7,465	7,098	6,672
Programme 2: Coastline Infrastructure and pedestrian access				
Construction and Rehabilitation. of jetties and seawalls	479.1	882	1,066.75	606
Construction of footbridges	450	1,844	1,263.25	850
Total for Coastline &Pedestrian Infrastructure.	929.1	2,726	2,330	1,456
Programme 3: Procurement, Warehousing and Supply				
Procurement, Warehousing & supply	49.14	66	78	98.7
Total for Procurement, Warehousing & Supply	49.14	66	78	98.7
Programme 4: Construction Standards and Research				
Construction standards and Research	30.14	47	40	42.5
Total for Construction Standards and Research	30.14	47	40	42.5
Programme 4: General Administration and Services				

Sub-sector	Estimates	Estimates	Projected	<b>Projected Estimates</b>	
	2010/11	2011/12	2012/13	2013/14	
General administration planning & support programme	812.64	1,084	1,326	1,426	
Total for General administration planning &support programme	812.64	1,084	1,326	1,426	
Total	6,522.6	11,388	10,872	9,695	
Energy					
Programme 1: National Electrification Programme					
National Grid System	16,076.34	22,765.47	24,656.83	20,215.21	
Geothermal and Coal exploration	12,362.25	27,817.23	26,785.24	19,443.03	
Rural Electrification	6,133	14,440	14,917.80	15,934.85	
Sub-total for P.1	34,571.6	65,022.70	66,359.87	55,593.09	
Programme 2: Renewable Energy Resources Programme					
Wood fuel Resources Development	294.06	326.37	375.13	394.6	
Renewable Energy Technologies	605.46	592.29	745.38	849.41	
Sub-total for P.2	899.52	918.66	1120.51	1244.01	
Programme 3: Petroleum Exploration and Distribution Programme	404.45	26625	0.47.00	000 20	
Petroleum Exploration and Distribution	404.46	866.05	947.89	999.38	
Sub-total for P.3	404.46	866.05	947.89	999.38	
Programme 4: Centralized Support Service Programme					
Administrative Services	439.26	1,253.78	1,191.11	1,080.96	
Planning and Project Monitoring	15.41	38.27	39.88	15.97	
Financial Services	25.9	31.8	31.45	33.14	
Sub-total for P.4	480.57	1,323.85	1262.44	1130.07	
Total	36,356.14	68,131.26	69,690.71	58,966.55	
Local Government					
Programme: Local Authority Management and Development					
Sub Programme 1: Urban and County development	2,989	9,865	10,800	12,700	
Sub Programme 2: Market development	2,810	8,000	8,500	9,000	
Sub Programme 3: Local Authority Management and Advisory Services	901	1,835	2,400	3,000	
Sub Programme 4: Reform in Local Government	12,300	13,300	14,300	15,300	
Total	19,000	33,000	36,000	40,000	
Nairobi Metropolitan	<u> </u>		<u> </u>		
Programme: Metropolitan Services					

Sub-sector	Estimates	Estimates	Projected	Estimates
	2010/11	2011/12	2012/13	2013/14
Sub Programme 1: Metropolitan mobility and transport Programme	1,291	3,000	32,500	27,382
Sub Programme 2: Metropolitan social infrastructure & quality of life programme	126	3,800	6,063	5,063
Sub Programme 3: Metropolitan planning, promotion, administration and Research programme	19	1,112	7,200	5,200
Sub Programme 4: Safety and emergency programmes	41	1,800	3,800	1,800
Total Expenditure	1,477	9,712	49,563	39,445
GRAND TOTAL	183,700.56	273,497.26	331,612	315,529.75

# **3.2.4 Devolved Levels-Counties/Districts** No submissions

## 3.2.5 Economic Classification

Table 3.7: Resource Requirements by Economic Classification (Kshs. Millions)

Sub-sector	Estimates	Estimates	Projected	Estimates			
	2010/11	2011/12	2012/13	2013/14			
Roads							
Current Expenditure							
Compensation of Employees	1,097	1,598	1,691	1,750			
Use of Goods and Services	1,021	1,522	1,725	1,880			
Current Transfer Govt Agencies	21,430	25,920	26,038	28,319			
Other Recurrent	2,000	2,000	2,205	2,315			
Sub Total	25,548	31,040	31,659	34,264			
Capital Expenditure	, ,	,	,	,			
Acquisition of Non-Financial Assets	317	583	349	367			
Capital Transfers to Government Agencies ((Road Authorities))	78,138	85,513	91,499	94,806			
Capital Transfers to KWS	564	1000	830	650			
Other development	175	180	193	203			
Sub-total Sub-total	79,194	87,276	92,871	96,026			
TOTAL	104,742	118,316	124,530	130,290			
Public Works							
Current Expenditure							
Compensation of Employees	994.66	1,015	1,043.80	1,065.20			
Use of Goods and Services	429.83	711	1,041.30	1,156			
Current Transfer Govt Agencies	0	0	0	0			
Other Recurrent	46.23	101	125	156			
Sub Total	1,470.72	1,827	2,210.10	2,377.20			

Sub-sector	Estimates	Estimates	Projected Estimates	
	2010/11	2011/12	2012/13	2013/14
Capital Expenditure	1		4	
Acquisition of Non-Financial Assets	89	106	149	159
Capital Transfers to Government Agencies	0	0	0	0
Other Development	4,962.90	9,455	8513	7,159
Sub totals	5,051.90	9,561	8662	7,318
TOTAL	6,522.6	11,388	10,872	9,695
Housing	, ,		, ,	,
Current Expenditure				
Employee Compensation	305	320	333	345
Use of Goods & Services	639.8	1,130	1,135	1,180
Current transfers Govt Agencies	15	700	700	700
Other Current	18	20	25	30
Sub Total	977.8	2,170	2,193	2,255
Capital Expenditure				
Acquisition of Non-Financial Assets	2,282	11,045	11,192	11,930
Capital transfers to Govt Agencies	700	0	0	0
Other Development	0	0	0	0
Sub Total	2,982	11,045	11,192	11,930
TOTAL	3,959.80	13,215	13,385	14,185
Transport				
Current Expenditure				
Compensation of Employees	354	603	654	700
Use of Goods and Services	1,272	2,050	5,842	4,889
Current Transfer Govt Agencies	2,804	3,704	3,399	3,333
Other Recurrent	0	0	0	0
Sub Total	4,430	6,357	9,895	8,922
Capital Expenditure				
Acquisition of Non-Financial Assets	1,960	7,537	6,935	6,485
Capital Transfers to Government Agencies	5,253	5,841	10,741	7,541
Other Development	0	0	0	0
Sub Total	7,213	13,378	17,676	14,026
TOTAL	11,643	19,735	27,571	22,948
Nairobi Metropolitan	·			
Current Expenditure				
Compensation of Employees	114	120	125	130
Use of Goods and Services	0	0	0	0
Current Transfer Govt Agencies	0	0	0	0
Other Recurrent	205	460	462	465
Sub Total	319	580	587	595
Capital Expenditure				
Acquisition of Non-Financial Assets	0	0	0	0

Sub-sector	Estimates	Estimates	<b>Projected Estimates</b>	
	2010/11	2011/12	2012/13	2013/14
Capital Transfers to Government Agencies	0	0	0	0
Other Development	1,158	9,132	48,976	38,850
Sub Total	1,158	9,132	48,976	38,850
TOTAL	1,477	9,712	49,563	39,445
Local Government		,		Ź
Current Expenditure				
Compensation of Employees	204	272	283	294
Use of Goods and Services	697	1,563	2,117	2,706
Current Transfer Govt Agencies	12,300	13,300	14,300	15,300
Other Recurrent	0	0	0	0
Sub Total	13,201	15,135	16,700	18,300
Capital Expenditure			•	
Acquisition of Non-Financial Assets	5,799	17,865	19,300	18,700
Capital Transfers to Government Agencies	0	0	0	0
Other Development	0	0	0	0
Sub totals	5,799	17,865	19,300	21,700
TOTAL	19,000	33,000	36,000	40,000
Energy				
Current Expenditure				
Compensation of Employees	223.24	396.12	411.96	454.43
Use of Goods and Services	229.15	283.4	320.81	360.63
Current Transfer Govt Agencies	1,800.50	1,935.50	2072.5	2,220.50
Other Recurrent	30.29	67.85	48.5	51.97
Sub Total	2,283.29	2,682.87	2,853.77	3,087.53
Capital Expenditure				
Acquisition of Non-Financial Assets	15,910.20	40,683.15	40,798.66	29,419.72
Capital Transfers to Government Agencies	17,543.80	23,071.55	24,283.86	24,552.59
Other Development	618.85	1,693.68	1,754.43	1,906.70
Sub totals	34,072.85	65,448.38	66,836.95	55,879.01
TOTAL	36,356.14	68,131.26	69,690.72	58,966.57
GRAND TOTAL	183,700.56	273,497.26	331,612	315,529.77

# 3.3 Analysis of Resource Requirements Vs Allocation

## 3.3.1 Recurrent

Table 3.8: Analysis of Resource Requirements Vs Allocation (Kshs. Millions)

Sub-sector	Estimates	Requirements Vs Allocation		
	2010/11	Requirement- 2011/12	Allocation- 2011/12	Variance
Roads	25,548	31,040	25,646	-5,394.0
Transport	4,430	6,357	3,816	-2,541.0
Public Works	1,470.72	1,827	1,519.04	-308.0
Housing	977.8	2,170	1,702	-468.0
Energy	2,283.29	2,682.87	2,381	-301.9
Local Govt	13,201	15,135	14,243	-892.0
Nairobi Metro	319	580	334	-246.0
Total	48,229.81	59,791.87	49,641.04	-10,150.83

## 3.3.2 Development

Table 3.9: Analysis of Resource Requirements Vs Allocation (Kshs. Millions)

Sub-sector	Estimates	Requirements Vs Allocation		
	2010/11	Requirement	Allocation	Variance
		2011/12	2011/12	
Roads	79,194	87,276	81,299	-5,977
Transport	7,213	13,378	9,255	-4,123
Public Works	5,051.9	9,561	6,052	-3,509
Housing	2,982	11,045	2,782	-8,263
Energy	34,072.85	65,448.38	44,880	-20,568
Local Govt	5,799	17,865	4,486	-13,379
Nairobi Metro.	1,158	9,132	1,558	-7,574
Total	135,470.75	213,705.38	150,312	-63,393

# **3.3.3** Devolved Levels-Counties/Districts No submissions

# 3.3.4 Semi Autonomous Government Agencies

## Recurrent

Table 3.10: Resource Requirements Vs Allocation by SAGAs (Kshs. Millions)

Sub-sector	Estimates	Requirem	ents Vs Alloc	ation
	2010/11	Requirement	Allocation	Variance
		2011/12	2011/12	
Roads				
KeNHA	150	170	150	-20
KeRRA	300	350	300	-50
KURA	50	400	50	-350
KWS	0	0	0	0
Sub-total	500	920	500	-420
Transport				
KMA	135	135	135	0
KCAA	0	0	0	0
KFS	300	300	300	0
Sub-total	435	435	435	0
Energy				
KETRACO	400	450	416	-34
GDC	700	750	728	-22
REA	700	735	717	-18
Sub-total	1,800	1,935	1,861	-74
Total	2,735	3,290	2,796	-494

## Development

Table 3.11: Resource Requirements Vs Allocation by SAGAs (Kshs. Millions)

Sub-sector	Estimates	Requirements Vs Allocation		
	2010/11	Requirement	Allocation	Variance
		2011/12	2011/12	
Roads				
KeNHA	18,982	27,000	19,982	-7,018
KeRRA	14,046	18,000	14,746	-3,254
KURA	1,245	4,455	1,450	-3,005
KWS	564	829	764	-65
Sub-total	34,837	50,284	36,942	-13,342
Transport				
KMA	0	0	0	0
KCAA	0	600	0	-600
KFS	37	37	37	0
Sub-total	37	637	37	-600
Energy				

Sub-sector	Estimates	Requirements Vs Allocation		
	2010/11	Requirement	Allocation	Variance
		2011/12	2011/12	
KETRACO	7,829	10,502.60	9,199	-1,303.6
GDC	11,562	26,925.33	15,286	-11,639.3
REA	3,583	10,900	4,436	-6,464.0
Sub-total	22,974	48,328	28,921	-19,406.9
Total	57,808	99,049	65,900	-33,348.9

# 3.3.5 Programmes and Sub-programmes

Table 3.12: Requirements Vs Allocation by Programmes/Sub-programmes (Millions)

Programme/Sub-programme	Estimates		ents Vs Alloc	
	2010/11	Requirement- 2011/12	Allocation- 2011/12	Variance
Roads				
Programme: Road Development, M	laintenance ar	nd Management Pr	rogramme	
Construction of Roads and Bridges	33,820	34,458	32,372	-2,086
Rehabilitation of Roads and Bridges	37,112	44,730	42,956	-1,774
Maintenance of Roads and Bridges	27,888	31,770	28,608	-3,162
Design of Roads and Bridges	5,208	6,208	2,050	-4,158
Capacity Building for Road Construction	150	150	195	45
Infrastructure development in National Parks and Reserves	564	1,000	764	-236
Total	104,742	118,316	106,945	-11,371
Transport				
Programme 1: Transport Managem	ent and Safet	y		
General Administration Planning and Policy Development	589	992	645	-347
Marine Transport Services Management	518	578	518	-60
Road Transport Safety	123	1,010	123	-887
Rail Transport Services Management	150	300	150	-150
Air Transport Services Management	2,358	2,720	2,380	-340
Sub-total for P.1	3,738	5,600	3,816	-1,784
<b>Programme 2:</b> Transport Infrastruc	ture Developr			
Development of Air Transport Infrastructure	3,251	7,294	3,501	-3793
Development and Expansion of Ports facilities	3,025	1,776	3,025	1249
Development of railway network	1,629	5,065	2,729	-2336

Programme/Sub-programme	Estimates	Requirem	ents Vs Alloca	ation
	2010/11	Requirement- 2011/12	Allocation- 2011/12	Variance
Sub-total for P.2	7,905	14,135	9,255	-4880
Total	11,643	19,735	13,071	-6,664
Public Works				
Programme 1: Government Build	lings			
Sub Programmes				
Completion of stalled projects	4,285.6	5,600.0	4,886.6	-713.4
Refurbishment/maintenance of	179.4	80.0	209.4	
projects				129.4
Construction of New Buildings	236.6	1,785.0	302.5	-1,482.5
<b>Total for Government Buildings</b>	4,701.60	7,465	5,398.5	-2,066
Programme 2: Coastline Infrastru	cture and pe	destrian access		
Construction and Rehabilitation of	479.1	882.0	579.64	-302.4
jetties and seawalls				
Construction of footbridges	450.0	1844.0	671.5	-1172.5
Total for Coastline & Pedestrian	929.1	2,726	1,251.14	-1474.86
Infrastructure.			·	
Programme 3: Procurement, War	ehousing and	l Supply		
Procurement, Warehousing &	49.14	66	49.9	-16.15
supply				
Total for Procurement,	49.14	66	49.9	-16.15
Warehousing & Supply				
<b>Programme 4: Construction Stand</b>	dards and Re	search		
Construction standards and	30.14	47	31.98	-15.02
Research				
<b>Total for Construction</b>	30.14	47	31.98	-15.02
Standards and Research				
Programme 4: General Administr	ation Service	s		
General administration planning	812.64	1,084	839.54	-244.46
&support programme				
Total for General administration	812.64	1,084	839.54	-244.46
planning &support programme				
Total	6,522.6	11,388	7,571.04	-3,816.96
Housing				
<b>Programme:</b> Housing Developmen	t and Human	Settlement Program	mme	
Sub-Programme 1: Housing	2,617.50	10,385	2,964	-7,421.1
Development				
Sub-Programme 2: Estates	1,342.30	2,830	1,520	-1,310.1
Management	207000	4.6.7	4.40.1	0.501.5
Total	3,959.80	13,215	4,484	-8,731.2
Energy				
Programme 1: National Electrific	ation Progra	mme		

Programme/Sub-programme	Estimates	<u> </u>			
	2010/11	Requirement- 2011/12	Allocation- 2011/12	Variance	
National Grid System	16,076.3	22,765.5	20,873	-1,892.5	
Geothermal and Coal exploration	12,362.3	27,817.2	16,142	-11,675.2	
Rural Electrification	6,133.0	14,440.0	7,716	-6,724.0	
Sub-total for P.1	34,571.6	65,022.7	44,731	-20,291.7	
<b>Programme 2: Renewable Energy</b>	Resources P	rogramme			
Wood fuel Resources Development	294.06	326.37	229	-97.4	
Renewable Energy Technologies	605.46	592.29	463	-129.3	
Sub-total for P.2	899.52	918.66	692	-226.7	
Programme 3: Petroleum Explora	tion and Dist	tribution Progran	nme		
Petroleum Exploration and Distribution	404.46	866.05	650	-216.1	
Sub-total for P.3	404.46	866.05	650	-216.1	
Programme 4: Centralized Suppo	rt Service Pr	ogramme			
Administrative Services	439.26	1,253.78	1,122	-131.8	
Planning and Project Monitoring	15.41	38.27	39	0.7	
Financial Services	25.9	31.8	27	-4.8	
Sub-total for P.4	480.57	1,323.85	1,188	-135.9	
Total	36,356.14	68,131.26	47,261	-20,870.3	
<b>Local Government</b>					
<b>Programme: Local Authority Man</b>	nagement and	d Development			
Sub Programme 1: Urban and County development	2,989	9,865	2,486	-7,379	
Sub Programme 2: Market development	2,810	8,000	2,000	-6,000	
Sub Programme 3: Local Authority Management and Advisory Services	901	1,835	943	-892	
Sub Programme 4: Reform in Local Government	12,300	13,300	13,300	0	
Total	19,000	33,000	18,729	-14,271	
Nairobi Metropolitan					
Sub Programme 1: Metropolitan mobility and transport Programme	1,291	3,000	1,324	-1,676	
Sub Programme 2: Metropolitan social infrastructure & quality of life programme	126	3,800	226	-3,574	
Sub Programme 3: Metropolitan planning, promotion, administration and Research programme	19	1,112	143	-969	

Programme/Sub-programme	Estimates	Requirements Vs Allocation		
	2010/11	Requirement- 2011/12	Allocation- 2011/12	Variance
Sub Programme 4: Safety and emergency programmes	41	1,800	199	-1,601
Total Expenditure	1,477	9,712	1,892	-7,820
GRAND TOTAL	183,700.56	273,497.26	199,953	-73,544

## 3.3.6 Economic Classification

Table 3.13: Requirements Vs Allocation by Economic Classification (Kshs. Millions)

Sub-sector	Estimates	<b>Estimates</b>	<b>Projected Estimates</b>	
	2010/11	2011/12	2012/13	2013/14
Roads		<u>.</u>		
Current Expenditure				
Compensation of Employees	1,097	1,598	1,691	1,750
Use of Goods and Services	1,021	1,522	1,725	1,880
Current Transfer Govt Agencies	21,440	25,920	26,038	28,319
Other Recurrent	2,000	2,000	2,205	2,315
Sub Total	25,558	31,040	31,659	34,264
Capital Expenditure		,		
Acquisition of Non-Financial Assets	317	583	349	367
Capital Transfers to Government Agencies ((Road Authorities))	78,120	84,884	91,499	94,806
Capital Transfers to KWS	564	829	830	650
Other development	175	180	193	203
Sub-total	79,176	86,476	92,871	96,026
TOTAL	104,734	117,516	124,530	130,290
Public Works	1	1		,
Current Expenditure				
Compensation of Employees	994.66	1,015	1,043.80	1,065.20
Use of Goods and Services	429.83	711	1,041.30	1,156
Current Transfer Govt Agencies	0	0	0	0
Other Recurrent	46.23	101	125.45	161
Sub Total	1,470.72	1,827	2,210.55	2,382.20
Capital Expenditure	1 /	, ,	, ,	/
Acquisition of Non-Financial Assets	89	106	149	164
Capital Transfers to Government Agencies	0	0	0	0
Other Development	4,962.50	9,455	8,513	7,159
Sub totals	5,051.50	9,561	8,662	7,323
TOTAL	6,522	11,388	10,873	9,705
Housing		<i>j</i>	- 1	. , , , , , , , , , , , , , , , , , , ,

Sub-sector	Estimates	Estimates	Projected Estimates	
	2010/11	2011/12	2012/13	2013/14
Employee Compensation	305	320	333	345
Use of Goods & Services	639.8	1,130	1,135	1,180
Current transfers Govt Agencies	15	700	700	700
Other Current	18	20	25	30
Sub Total	977.8	2,170	2,193	2,255
Capital Expenditure				
Acquisition of Non-Financial Assets	2,282	11,045	11,192	11,930
Capital transfers to Govt Agencies	700	0	0	0
Other Development	0	0	0	0
Sub Total	2,982	11,045	11,192	11,930
TOTAL	3,959.80	13,215	13,385	14,185
Transport				
Current Expenditure				
Compensation of Employees	354	603	654	700
Use of Goods and Services	1,272	2,050	5,842	4,889
Current Transfer Govt Agencies	2,804	3,704	3,399	3,333
Other Recurrent	0	0	0	0
Sub Total	4,430	6,357	9,895	8,922
Capital Expenditure				
Acquisition of Non-Financial Assets	1,960	7,537	6,935	6,485
Capital Transfers to Government Agencies	5,253	5,841	10,741	7,541
Other Development	0	0	0	0
Sub Total	7,213	13,378	17,676	14,026
TOTAL	11,643	19,735	27,571	23,248
Nairobi Metropolitan	1			
Current Expenditure				
Compensation of Employees	114	120	125	130
Use of Goods and Services	0	0	0	0
Current Transfer Govt Agencies	0	0	0	0
Other Recurrent	205	460	462	465
Sub Total	319	580	587	595
Capital Expenditure				
Acquisition of Non-Financial Assets	0	0	0	0
Capital Transfers to Government Agencies	0	0	0	0
Other Development	1,158	9,713	48,563	38,850
Sub Total	1,158	9,713	48,563	38,850
TOTAL	1,477	10,293	49,150	39,445
<b>Local Government</b>		- · , · ·	- ,	7
Current Expenditure				
Compensation of Employees	204	272	283	294
_				

Sub-sector	Estimates	Estimates	<b>Projected Estimates</b>	
	2010/11	2011/12	2012/13	2013/14
Use of Goods and Services	697	1,563	2,117	2,706
Current Transfer Govt Agencies	12,300	13,300	14,300	15,300
Other Recurrent	0	0	0	0
Sub Total	13,201	15,135	16,700	18,300
Capital Expenditure				I
Acquisition of Non-Financial Assets	5,799	17,865	19,300	18,700
Capital Transfers to Government Agencies	0	0	0	0
Other Development	0	0	0	0
Sub totals	5,799	17,865	19,300	21,700
TOTAL	19,000	33,000	36,000	40,000
Energy				
Current Expenditure				
Compensation of Employees	223.24	396.12	411.96	454.43
Use of Goods and Services	229.15	283.4	320.81	360.63
Current Transfer Govt Agencies	1,800.50	1,935.50	2,072.50	2,220.50
Other Recurrent	30.4	67.85	48.5	51.97
Sub Total	2,283.29	2,682.87	2,853.77	3,087.53
Capital Expenditure	,			1
Acquisition of Non-Financial Assets	15,910.20	40,683.15	40,798.66	29,419.72
Capital Transfers to Government Agencies	17,543.80	23,071.55	24,283.86	24,552.59
Other Development	618.86	1,693.68	1,754.43	1,906.70
Sub totals	34,072.86	65,448.38	66,836.95	55,879.01
TOTAL	36,356.15	68,131.26	69,690.72	58,966.57
GRAND TOTAL	183,692.94	273,278.26	331,199.72	315,839.57

#### **CHAPTER FOUR: CROSS SECTOR LINKAGES**

## 4.1 Analysis of other Sector Linkages to the Sector

Physical Infrastructure Sector is one of the key players in rapid and sustainable economic growth and development. There are strong linkages both (forward and backward) with other sectors. The envisaged economic growth of 10% in the Vision 2030 can only be achieved and sustained with an efficient and functioning physical infrastructure.

The Sector interlink virtually with all other sectors. The sector facilitates production, trade and reduction in the cost of doing business. To enhance the tourist attraction, physical infrastructure is one of the players in facilitating mobility.

The Sector recognizes the importance of protecting and conserving the environment and thus why in every physical infrastructure projects there is always an undertaking of the environmental Impact assessment. Physical infrastructure projects are labour intensive and therefore require both the skilled and the unskilled manpower.

The table below illustrates the linkages between the Physical infrastructure and all other MTEF sectors;

MTEF Sectors	Medium Term Plan Sectors	Linkage with Physical
		Infrastructure
Agriculture and	Land reforms and Agriculture and	The Physical Infrastructure Sector
Rural Development	Rural Development	plays an important role in
		facilitating production, trade and
		reducing the cost of transportation
		of agricultural produce through
		provision of motorable roads. The
		sector relies on provision of power
		for its primary industries and
		lighting the rural population.
		Local Authorities provide infrastructural facilities which
		support industrial development
		and provide market facilities for
		agricultural produce.
Trade ,Tourism	Tourism, Manufacturing,	The Physical Infrastructure Sector
and Industry	Wholesale and Retail and	provides roads which facilitates
ľ	Business Process Outsourcing	trade between market destinations
		and contributes to improved
		tourism road networks. Road
		safety is ensured for the tourists
		and other road users. Nairobi
		metropolitan is implementing
		measures to make Nairobi a 24
		hour trading city and regional hub
		for trade. The sector is also
		implementing measures for
		improving and attracting
		investment through provision of

MTEF Sectors	Medium Term Plan Sectors	Linkage with Physical
		Infrastructure
		affordable power for primary and
		secondary industries
Environment	Environment, Water and	The Physical Infrastructure Sector
,Water and	Sanitation	recognizes the importance of
Irrigation		protecting and conserving the
C		environment during
		implementation of infrastructure projects. Environmental Impact Assessment is now mandatory
		•
		before undertaking
		implementation of all projects to ensure that the activities carried out do not impact negatively on the environment. The Sector
		ensures provision of safe water,
		effective sewage disposal and
		management of solid waste. The
		main user of the Meteorological
		department is Civil Aviation in the
		*
		Transport Sub- sector where they
		advice the department on weather
		status.
Human Resource	Education and Training, Health,	The Infrastructure Sector provides
Development	Human Resource development,	employment opportunities through
	Employment	its labour intensive programmes.
		The Sector also improves
		infrastructural services such as
		power, roads, buildings etc to
		education, health and other social
		facilities thereby improving living
		standards. The Sector is
		implementing programmes taking
		into account the issue of HIV and
		AIDS scourge.
Research	ICT, Science Technology and	The Physical Infrastructure Sector
,Innovation and	Innovation	is involved in research on
Technology	inio vation	construction materials and
recimology		technologies, dissemination of
		research findings and promotion
		of wider application of innovative
		materials and technologies .The
		Sector is adopting new emerging
		ICT technologies in delivery of its
		services.
Governance	Security, Peace Building and	GJLO plays important role in
,Justice, Law and	Conflict Management,	sector's legal reform agenda
Order	Governance and Rule of Law, Decentralization	through enactment of legislations

MTEF Sectors	Medium Term Plan Sectors	Linkage with Physical
		Infrastructure
		2006 and the Merchant and
		Shipping Act 2009. Further, the
		Sector plays a critical role in the
		integration of EAC.
Public	Public Sector Reforms	In every undertaking, planning is
Administration and		an important element. The Sector
International		relate to the Physical
Relations		Infrastructure on issues of national
		development planning and public
		expenditure management, budget
		tracking and monitoring and
		evaluation of development
		programmes and activities as well
		as access to support services.
Special	Gender, Vulnerable Groups and	The Physical Infrastructure Sector
Programmes	the Youth, Equity and Wealth	is currently implementing
	Creation	infrastructure projects such as in
		roads and energy to disadvantaged
		areas of the country.
National Security	Security	The Physical Infrastructure Sector
		facilitates the national security
		sector through provision of
		infrastructural services such as
		roads, energy and building.
		Patrolling Kenyan waters for the
		security of vessels destined to our
		country. All important in
		improving the country's security.
Macro Working	Financial Services	Financial services are expected to
Group		complement and also supplement
		government funds in planning for
		and implementation of Physical
		Infrastructure Sector programmes.

Physical Infrastructure Sector is an important catalyst of private sector activities because of its facilitative role in enhancing the business operations of the private sector investment. Investment in infrastructure also acts as an incentive to provide private sector investment. The private sector on the other hand is an engine through which the Physical Infrastructure Sector can achieve employment creation and income generation objectives while at the same time partnering in the achievement of the physical infrastructure targets of delivering on projects and programmes. Resources from this Sector when mobilized can supplement government funds in planning for and implementation of Physical Infrastructure Sector activities and programmes.

Private sector organizations are endowed with both human and financial resources that could supplement government's effort. Areas of linkages range from consultancy services on planning of programmes/projects, drawing designs, implementation to programme/project Monitoring and evaluation. The private sector is also a reservoir of human labour (an

important factor of production) from which the Physical Infrastructure Sector draws manpower for its construction projects. Other areas of collaboration include Research & Development with Institutions of higher learning in areas of research on best building/construction practices and technology as well as low cost building materials. This has the potential of lowering cost of construction to the benefit of the low income group and general economy. The private sector also provides consultancy in drawing designs for construction projects, undertake construction, are producers and suppliers of building materials and equipment as well as provide finances (for example housing finance) that are greatly used in Physical Infrastructure Sector. For instance in the housing sub-sector banking and Non-Bank Financial Institutions (NBFIs e.g. Housing Finance and Building Societies) play a critical role in bridging the financial gap required for Housing development, through mortgages and loans. Thus developing Private Public Partnerships (PPPs) will enhance the existing collaboration.

## 4.2 Cross Sector Linkages and its Impacts on Resource Allocations

It is recognized that Physical Infrastructure Sector is a player in rapid and sustainable economic growth and development. There are strong linkages (both forward and backward) with other sectors. Vision 2030 envisages an economic growth rate of 10% annually. This growth can only be achieved and sustained with an efficient and functioning infrastructure through adequate resource allocation.

The Sector is an important prerequisite in creating and supporting business environment that facilitates private sector investment, growth and job creations. Accelerating development in disadvantaged areas e.g. Arid and Semi-Arid lands, heavy investment in physical infrastructure is necessary to open up these areas for investment in other sector. Investment in physical infrastructure requires large amount of resources and therefore should continue to be a priority area in resource allocation.

#### CHAPTER FIVE: EMERGING ISSUES AND CHALLENGES

### Nairobi Metropolitan

- **Inadequate funding:** The Sub-sector has continued to have a decrease in funding levels from 2 Billion on 2008/09 to 1.1 Billion in 2009/10. This has affected completion of flagship projects that were anticipated in Vision 2030.
- Staff level not fully addressed: The Sub-sector encounters capacity gaps as it continued to operate with a deficit between the authorized posts and the staff in post. This in turn implied existence of technical and support services gaps which impacted negatively on service delivery. In addition, the Sub-sector faced constraints related to inadequacies of appropriate skills in some cadres of staff that are necessary for the effective performance of some technical tasks
- **Inadequate Office Accommodation:** The number of staff in the Ministry has been rising progressively against the available space in KICC, the Sub-sector faces serious accommodation problems and requires additional space.

#### **Energy**

- **Inadequate power supply capacity**: The demand for electricity is growing faster than the ability to install additional generation capacity. This has arisen because of inadequate budgetary support to facilitate timely implementation of generation projects based on the rolling Least Cost Power Development Plan.
- Over-reliance on hydropower: Hydro power in Kenya constitutes 70 80% of the total electrical power. This over reliance has exposed the country to power rationing in times of drought resulting to use of very expensive emergency power generation.
- **Inability of KPLC to connect all customers**: KPLC is not able to connect electricity to all customers who would like to be connected to the national grid due to overstressed distribution network and shortage of transformers.
- **High cost of power**: The cost of power is high compared to our competitors such as Egypt and South Africa due to high system losses, poor economies of scale, accumulation of fuel cost recovery surcharge and appreciation of the Kenya shillings.
- Weak transmission and distribution network: The transmission and distribution system is weak resulting in high system losses, frequent power outages and low quality of supply which increase the cost of doing business.
- **Dependence on donor financing**: With the power utilities having a weak capital base, and given that power generation projects are capital intensive, the country has been over relying on donors for financing, which has not been sufficient.
- Long lead times in the development of power infrastructure: Power generation, transmission and distribution infrastructure is capital intensive and take inordinately long time from conception to commission.
- Low investments in power sector by private investors: Many Independent Power Producers (IPPs) are not interested in investing in the power sector, and those few who show interest take too long to implement projects and sometimes demand enormous terms such as very high generation tariffs, government guarantees and letters of credit covering several months of payment for both capital and energy charges.
- **High cost of rural electrification**: Due to very high cost of extending the national grid, low densities of customers connected per km of line or per step down transformer.

- Low countrywide electricity access at 22% of the total population and 10% of rural population and very slow increase in number of connections.
- **Inadequate sea- port facilities** for handling imported coal and natural gas which are cheaper primary energy resources than petroleum oil-based fuels for power generations.
- **High and ever rising prices of fossil fuels**: Kenya has been adversely affected over the years by the high and ever rising prices of crude oil in the international market and subsequent increases in the prices of petroleum products.
- Unsecure oil supply: Due to fragility of the world market, high prices of oil, proliferation of sub-standard fuel dispensing facilities, under-dispensing of products, adulteration of motor fuels, dumping of export products and limited distribution infrastructure in the rural areas.
- Obsolete oil refinery: The oil refinery in Mombasa is not only uneconomic to operate but also produces petroleum products which do not meet international quality standards and inadequate LPG quantities which do not match local and export demand.
- Constrained oil pipeline system: There is inadequate pipeline capacity to transport oil products from Mombasa to Nairobi and to Western Kenya.
- Unsustainable biomass use: has led to deforestation and land degradation.
- Addressing food security issues when developing the bio-diesel industry: developing bio diesel industry is sometimes in conflict with food security issues.

#### Roads

- The sub-sector's allocation has never matched the resources required to provide reliable road (both classified & unclassified) network in the country.
- Inadequate plant and equipment under the Mechanical and Transport fund to meet the ever increasing demand
- Slow procurement and disbursement procedures on the Development co funded projects.
- Huge maintenance backlog of the road network. This has reduced the uptake of new projects.
- Lack of adequate local construction capacity.
- Encroachment of road reserves by private developers.
- Enforcement of the axle load limits
- The reduction of maintenance fund for DE/Other roads and eventual equal distribution of the 10% Fuel Levy Funds meant for maintenance to all constituencies. This has led to a thin spread of financial resources across all the constituencies which does not result into meaningful road maintenance works. The funds are very minute to make any difference in a constituency's road network.
- The management of the Constituency Road Maintenance Funds through the legislative arm of the Government as represented by the CDF mechanism.
- Managing stakeholder expectations and maintaining the existing goodwill.
- Lack of technology to stabilize murram roads in the parks and reserves.

#### **Local Government**

• The factoring of Contribution In-lieu of Rates as part of sub-sector budget ceiling is wrong and disadvantages the allocation to the sub-sector because the funds are disbursed to the local Authorities in respect to land, buildings and forests that belong to other government Ministries and departments.

- Disaster Management preparedness: There's need to enhance disaster preparedness in all Local authorities.
- Inadequate human resource capacity. Most local authorities do not have the capacity required for smooth operations and implementation of projects in the Local authorities.
- Inadequate funding in Recurrent and Development vote
- Solid waste management:- currently only four towns are covered
- Storm water drainage: There is need to have proper drainage system for storm water and sewerage.
- Increased demand for development and refurbishment of various types of markets as outlet for agricultural, livestock and other products as well as avenue for employment generation.
- Mainstreaming of Monitoring and evaluation

#### **Public Works**

- The newly created districts require funds for construction of field offices, operations & maintenance.
- Increased demand for new office space and facilities at the Sub-sector's headquarter.
- Construction and maintenance of seawalls and jetties has emerged as a major life improving program for the residents of the coastal region.
- There is increased demand for foot bridges in the countryside due to the social impact created by the already completed ones.
- Shortage of professional and technical staff, which impacts negatively to the Subsector in discharge of its mandate.
- Delay in establishment of National Construction Authority (NCA) to enhance efficiency and coordination in the building construction Industry.
- Inadequate funding in Recurrent and Development vote.
- Increased demand on innovations and research in building technology.
- Mainstreaming of Monitoring and Evaluation of projects.

#### Housing

- Lack of comprehensive housing sector legislation (legal framework) that has led to uncoordinated housing sector operations thus limiting the Sub-sector's operations in housings sector.
- Lack of research and development programme to support Appropriate Building Materials and Technology.
- Under-occupancy of government quarters due to insecurity and low maintenance levels; and lack of inventory of government quarters and their occupation.
- Low level of funding by government to housing sector development and lack of maintenance policy & integrated legal framework.
- Lack of guidelines to harmonize leasing of government offices and residential accommodation leading to payment for unused and under-used space.
- Escalating prices of building materials.

### **Transport**

• The challenge for the Port of Mombasa is not only that of attracting and servicing increased traffic from the hinterland within Kenya and from the neighbouring countries but also that only small sized vessels are calling at the port while larger post-panamax vessels cannot access the port due to its shallow channel.

- The existing railway track is still a one metre gauge whose capacity is limited.
- The over-reliance on one transport corridor.
- Apart from the increasing demand for an efficient public transport system in the City of Nairobi, the prevailing traffic congestion and environmental pollution in the City still remains a major challenge in the transport sector.
- The rapidly growing aviation industry in Kenya faces major challenges including inadequate; regulations and enforcement, oversight and accident investigation capacity, air transport infrastructure and limited capacity in local training institutions. The aircraft accidents that have occurred in the recent past and the real threat to aviation security that is faced today make it more compelling for the country to work harder towards improving the safety of the airspace and aviation security in order to sustain the growth.
- The sub-sector is undertaking restructuring of technical departments and hence need for more training fund to train new officers, serving and re-designated.
- Fragmented transport systems
- Low investment in transport infrastructure
- Inappropriate Institutional framework
- Slack enforcement of rules and regulations
- Safety/Security at Ports and Airports
- Out-dated legislation
- Lack of standardized curriculum and conflict of interest by the police who test the students and instructors prior to licensing.

#### **CHAPTER SIX: CONCLUSION**

The Physical Infrastructure Sector has the necessary capacity to implement the stated programmes and projects as clearly outlined in the expected outputs. The impact of these programmes/projects activities in the sector have a multiplier effect on the social dynamics and reduction of poverty levels and contribute to the achievement of the Kenya Vision 2030. The sector will continue to implement the following programmes: Roads development, maintenance and management; Transport Management and Safety; Transport Infrastructure Development; Local Authority management and development; Housing development and human settlements; Government Building; Coastline Infrastructure and pedestrian access; Procurement and warehousing supply; construction and standard research; Metropolitan infrastructure and services; National Electrification; Renewable Energy Resources, and Petroleum Exploration and distribution.

In the Local Government subsector, the local authorities form engines of development at the grassroots hence there's need to put more emphasis in to the projects meant to benefit the Local Authorities. However, the sub-sector has grossly been underfunded notwithstanding the previous years of budgeting with very crucial projects and activities not undertaken due to lack of budgetary allocation. It's anticipated that funding to the projects will be enhanced to facilitate timely completion. Further, it is envisaged that the Treasury will clear the current debts owed to the local authorities in terms of Contribution in Lieu of Rates (CILOR), which have been crowding out funding to critical services. This will contribute positively to development in the LAs due to improvement in revenues.

Sufficient investments in the Public Works sub-sector are required to facilitate provision of adequate building space for all stakeholders in Government. It is therefore necessary to develop innovative ways of resource mobilization and prudence utilization for optimal growth.

With rapid population and urbanization, proliferations of informal settlements increasingly continue to pose social and economic challenges for the housing sub sector. This can be mitigated by aggressive investment in housing infrastructural facilities and provision of appropriate incentives to foster private sector participation in housing development. Various legislative frameworks relevant to housing such as Building Laws; Housing Bill, Tenant and Landlord Bill need to be fast tracked for enactment to spur growth in the housing sector.

Metropolitan development sub sector has experienced inadequate funding although this has been rising gradually. However, as a result of the continuous capacity building in terms of personnel, facilities and equipment, the sub sector's actual expenditure has been increasing progressively. It is envisaged that the increase in resource allocation as well as the progressive capacity building will enable the sub - sector deliver its services through effective project implementation.

Successful implementation of projects in the roads' sub-sector will be realized if effective collaboration with key stakeholders is enhanced. It is notable that liquidity levels for road contractors have increased on account of reduction of withheld VAT from 16% to 8%. However the refund systems of input VAT continues to be too bureaucratic causing undue delays in the refund. The sub sector has endeavoured to address the challenge of outstanding bills, through timely completion of ongoing projects and did not take to start any new projects

to ensure that ongoing ones are adequately funded and are completed on time. Further, reduction of the percentage earmarked for maintenance of Class DE/Other roads to 10% and equal distribution of the same across all constituencies continues to impact negatively on road maintenance.

The energy sub-sector is critical in ensuring sufficient and efficient power supply. However, it continues to experience inadequate power supply capacity resulting to over-reliance on hydro power. Some of the challenges experienced by the sub sector include inability of KPLC to connect all customers due to weak transmission and distribution network; high cost of power compared to other regional players; dependence on donor financing and their stringent conditionalities, and ever rising prices of fossil fuels prices.

Transport sub-sector provides leadership in Transport policy development and therefore requires enhanced empowerment to facilitate effective co-ordination. With Kenya being strategically located with good access to sea and air connections to most parts of the world, there is pressure to ensure safety in all modes of transport. Piracy in Kenyan water is a concern and requires the concerted efforts and collaboration of the sub-sector and that of Defence by increasing the patrolling in the Kenyan waters along the Indian Ocean. As the road infrastructure is improved, there is need to ensure safety. To do this, road safety awareness campaigns, erection of studs in black spot and adoption of best tested and piloted systems will be enhanced. Effective sub-sector capacities are a pre-requisite in transforming challenges into opportunities through efficient programme implementation.

#### CHAPTER SEVEN: RECOMMENDATIONS

- Encourage public-private partnership in the sector by providing the necessary incentives.
- Enhance infrastructure financing initiatives such as infrastructure bonds.
- Mobilize adequate financial and human resources to ensure timely implementation of planned projects and retention of professional and technical staff.
- Promote research and development and carry out demonstration on the manufacture of cost effective appropriate technologies.
- Improve the sector's capacity in terms of personnel, facilities and equipments should be sustained so that the sector is able to move towards achieving an optimal level of output.
- Increased use of the local contractors to enhance their capacity.
- The sector to maintain the positive trend on absorption of budget allocation over recent financial years.
- All on-going and stalled projects be adequately funded to ensure that they are completed to contribute to sustainable economic growth.
- Mainstream Monitoring and Evaluation in project implementation.
- Fast track review of out-dated laws and implementation of supportive legal framework.
- Review of the Roads Act 2007 and Kenya Roads Board Act 1999 to allow for a higher percentage for roads maintenance for class DE/Other roads and equitable distribution of the same and restructuring of constituency roads committee.
- Operationalize the Integrated Transport Data System and enhance coordination between traffic enforcement agencies.
- Enforcement of safety and security at Ports, Airports and in the Metro region.
- Diversify energy sources such as fossil, geothermal, nuclear, bio-diesel, bio-gas, wind and solar and promote energy conservation technologies including use of improved charcoal stoves and jikos.
- Mitigate against the impact of high cost of housing.
- CILOR being a transfer fund should be treated separately like LATF so that it does not affect the sub sector's ceiling, treasury should clear outstanding rates to the Local Authorities and it should clear all pending bills relating to KUTIP and any other.

# REFERENCES

- Kenya Vision 2030 and its 1<sup>st</sup> MTP
- Handbook of National Reporting Indicators
- Physical Infrastructure Sector Report 2010/11-2012/13
- 2009/10 MPERs