



Name of Project:	Isiolo Municipality Solid waste management Plan
County	Isiolo
Municipality:	Isiolo.
Document:	Solid waste Management status.
Total Funding	Kshs 75,396,435.00
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1.0 Introduction

1.0 Background information.

Kenya has a growing human population and rising industrialization of its economy. Although there are laws in place governing waste management, lenient implementation of such laws has led communities to be overwhelmed by their own waste. This situation impacts both the environment and public health. These impacts range from clogged drainage and sewers, waterborne diseases like typhoid, cholera, and diarrhoea, and increased upper respiratory diseases from open burning of the garbage, to malaria. Waste management is mostly the responsibility of county governments. However, such authorities have not prioritized this duty or allocated sufficient resources to carry it out. This has resulted in poor waste management which includes indiscriminate dumping, uncollected waste, and a lack of waste segregation across the country.

Waste transportation is not in line with international best practices. It is conducted using open trucks, hand carts, and donkey carts, among others. Such practices have resulted in littering, making waste visible in public spaces. Nevertheless, some county governments, in line with national legislation, have adopted appropriate transportation trucks, and/or privatized waste management through public-private partnerships (PPP). Due to the absence of adequate disposal sites, waste disposal is also a challenge in Kenya.

Major towns that have designated sites, practice open dumping of mixed waste because they are not adequately equipped. In response to this situation, the National Environment Management Authority (NEMA) has directed county governments to create waste disposal areas, and to undertake basic action to manage them, including fencing, manning, and weighing of the waste.

In this context, Vision 2030 – Kenya’s long-term development plan – acknowledges that efficient and sustainable waste management systems are necessary. In line with Vision 2030, NEMA developed the National Solid Waste Management Strategy directed at assisting the public and institutions to engage in proper waste management by complying with national regulations on the matter.

Municipality Vision

To Develop Isiolo as a Centre of Excellence and a Major Economic Growth Hub in Kenya with Resilient and Inclusive growth through the responsible use of its Natural Resources”

Municipality Mission

It’s to be dedicated in providing fiscally responsible services that maintain a vibrant community.”

Municipality Values

Values are the guiding beliefs and principles of the organization. In Paramount, we value

- Respectful and ethical behaviors.
- Service excellence.
- Responsiveness, accountability, and professionalism.
- Innovation and creativity.
- Teamwork and collaboration.
- Effective, inclusive, and transparent public information and engagement.

Strategic Outcomes

Lastly, strategic outcomes provide a “pathway” to the Vision. Here are Paramount’s:

i. *Safe Community*

Provide a safe place to live, work, and visit.

ii. *Community Health*

Provide diverse recreational and cultural amenities that support healthy lifestyles and a sense of community.

iii. *Economic Health*

Support a healthy, sustainable economy reflecting community values.

iv. *Environmental Health*

Promote, protect, and enhance a healthy and sustainably built and natural environment.

v. *Attractive and Well-maintained Infrastructure*

Develop and maintain City-owned infrastructure, parks, facilities, and amenities that enhance the quality of life and attractiveness of the community.

- vi. ***Efficient, Effective, and Fiscally Responsible*** Deliver an efficient and effective City government in a fiscally responsible, transparent, and collaborative manner

2.0 Isiolo Municipality Solid Waste Management Status.

Solid Waste Management is one of the prioritized projects by Isiolo Municipality. The municipality is the principal institution charged with improving waste collection and management services as per the Urban Areas and Cities Act 2011 and the Municipal Charter.

The municipality is committed to providing efficient waste collection, handling, sorting, and development of waste-to-value products with private sector involvement for long-term sustainability. Isiolo currently produces an estimated 23,500 tonnes of waste annually, which is more than the municipality can collect and properly dispose of with it has three waste collection trucks that have a capacity of 3,600 tonnes of waste annually, assuming 7 collection days per week.

The main gaps identified in the Isiolo Solid Waste Management value chain include:

- Isiolo municipality has very limited collection infrastructure. They have two trucks and a tractor which is insufficient to cover the whole of CBD and the household areas. They do not have other infrastructure such as collection centres.
- The current dumpsite in Isiolo municipality is an open landfill that is not fenced.
- Isiolo municipality needs to do proper zoning for an enhanced collection process.
- Isiolo municipality has 7 licensed private waste operators who collect waste and drop it off in the dumpsite. Few households pay for waste collection services meaning their businesses struggle to become sustainable.
- The waste collected in Isiolo is not weighed so it is difficult to estimate the actual volumes of waste generated in the town. This makes it hard for private sorting and recycling companies to see the value proposition as this is key data that is missing.
- Residents of Isiolo municipality who can't afford waste collection services which are currently at KES. 500 per month look for alternative ways to dispose of waste. This leads to dumping in illegal areas as the county is not able to reach all the households efficiently.
- Isiolo municipality staff have a low capacity to do enforcement – they don't have the vehicles and the staff to manage this effectively to curb illegal dumping.
- Isiolo municipality needs a high budget to ensure they can deal with the whole value chain i.e. improve collection and invest in a new dumpsite. The municipality does not receive funding as and when it needs there are usually budget delays and most of the time these funds are disbursed over time and late.
- The visual outlook of Isiolo town has thus deteriorated leading to outcry from the public that an essential service is not being delivered.

To close these gaps, the following solutions are being proposed by Isiolo municipality.

1. Purchasing of trucks and other equipment needed to improve the collection efforts.
2. Assessing the municipality zoning areas and identifying areas to set up waste collection centres.
3. Setting up the shed at the dumping site to allow sorting space and storage of sorted waste
4. Identifying the stakeholders involved in waste collection in Isiolo and recruiting and capacity building of waste collectors and sorters
5. Sensitising the community of proper waste management practices – working with the other players to ensure all different people are involved and no conflict arises due to the clan-based system in Isiolo.
6. Working with the private operators in Isiolo to put a structure for receiving waste, weighing, and paying waste collectors efficiently.
7. Market linkages to ensure sorted waste can be sold to recyclers
8. Monitoring progress and ensuring project operations can be sustained.
9. Establishing a modern facility landfill and disposing of sites from the current location to accommodate the larger population.
10. Purchase of 10 pcs garbage collection bins for strategic points within urban centre/ CBD for supporting collection services.

3.0 Isiolo Municipality Solid Waste Collection Budget from 2023/2024 To 2024/2025.

The following are key service providers that supported the services within Municipality: -

SNO	Service Providers name.	Budgetary Allocation.	Financial years
1	Ciltacho Holdings Ltd	7,200,000	2021/2022
2	Mulfab Holdings Ltd	8,200,000	2022/2023
3	Mulfab Holdings Ltd	7,200,000	2023/2024
4	Ciltacho Holding Ltd	8950,000	2024/2025
5	Establishing waste facility Through KUSP Program	43,846,435	2024/2025
	Grand Total	75,396,435.00	

4.0 Management measures and actions

In the field of municipal solid waste management, the following measures and actions should be taken:

- At County, we are committed to Formulating and implementing laws and regulations governing municipal solid wastes, improving the system of managing urban refuse with all due haste and gradually introducing a system of fees for the treatment of refuse. Our County attracts tourists we should establish a system for the segregated collection and safe disposal of refuse in the near future, while other

cities will achieve this goal more gradually. Individuals and institutions are encouraged to create professional service companies for municipal solid waste collection, transportation, and safe disposal.

- Take measures to minimize the generation of municipal refuse, Measures will also include providing clean vegetables to urban residents in developing decomposable plastic packaging, gradually implementing the use of garbage bags and segregated disposal, and encouraging waste recycling.
- Promote the safe disposal and recycling of urban refuse in accordance with local conditions. The primary options for the safe disposal and recycling of municipal solid wastes are sanitary landfills and composting, although some cities might employ incineration. By means of high-temperature composting, domestic refuse is now being processed into organic fertilizer and used locally. Monitoring of the rural environment must be improved.
- Establish appropriate economic policies to encourage the development of comprehensive technologies for utilising municipal solid wastes.
- Improve the infrastructure for sanitation by, for example, improving public lavatories, municipal solid waste transfer sites, faeces disposal sites, parking for sanitation vehicles and sanitation works yards. These kinds of improvements to the infrastructure are to be integrated into the design, construction, and operational planning processes for municipal and industrial development.
- Improve technical engineering studies on municipal refuse collection and treatment. Introduce and assimilate advanced technologies from other countries. Emphasize the development of environmentally sound technologies and equipment for use in the reclamation, treatment, and utilization of municipal solid wastes.
- Establish demonstration projects as models for municipal refuse treatment and disposal. These should demonstrate sanitary landfills, high-temperature

composting, and comprehensive recycling. Implement well-designed municipality wide programs for municipal refuse collection and transport.

4.1 Urban Development Plan/Strategy for The KUSP 2 Funding

This plan was developed by the management of the municipality in collaboration with County Project Coordination Team (CPCT) in consultation with the Isiolo Municipal Board. The plan was approved by municipal Board with review and recommendation done by stakeholders meeting held at Isiolo catholic mission, and Kilimani primary school hall held on 20th April 2024. Where the representatives were picked from three wards from the municipality.

5.0 Context

The proposed investments are according to the Isiolo Urban Integrated Development Plan (IDeP) for Isiolo Municipality.

6.0 The main objectives

- a) To develop effective governance and management structures in Isiolo Municipality
- b) To develop sound physical and social infrastructure and service necessary for sustainable urbanization
- c) To promote vibrant economic growth and development that guarantees good quality employment creation and income in the Municipality.
- d) To promote sustainable environmental management and climate change adaptation Plans and investment.
- e) To better mitigate flood risk and improve drainage systems.
- f) To invest in infrastructure of waste management facility in Isiolo municipality

7.0 Investment Prioritization

The priorities of the residents of Isiolo Municipality include:

- Storm water drainage works and improved urban infrastructure
- Relocations of Sanitary Landfills Management and Purchase of Garbage collection vehicles/Trucks for waste Collection management.
- Installation of new street lights, High flood Mast and rehabilitation of high mast in all informal settlements within Isiolo.
- Tarmacking of all access roads within municipality and Opening up of access roads in the neighbourhoods informal centres.
- Spatial planning for Isiolo Municipality.

- Opening of access roads through Cabro works within Isiolo center.
- Town Beautification for 7km within Isiolo resort City and street management.
- Purchase of Firefighting trucks and tools/equipment's
- Restructuring and construction of new and existing of sewerage system for Isiolo municipality residents
- Purchase **office coordination vehicle** and **enforcement vehicle** for an urban enforcement planning and maintaining of urban law and order within municipality.

8.0 Urban Investment Plan and Budget FY 2024/2025.

This financial year the stakeholders recommended to invest in the establishment of urban waste management facility through Relocation of current waste management facility consisting of fence and gates, supply of 10 garbage bins with the installation of the incinerator, purchase of an office and enforcement vehicle, two rooms for security and sanitation block with and erection of 3 no high mast flood lights within Integrated location of Municipality of Isiolo.

9.0 Expected outcomes

- a) Clean and secure Municipality.
- b) Properly managed Municipal infrastructure and Management.
- c) Proper avenues for waste collection in the Municipality.
- d) Well established infrastructure for waste management facility at Municipality.
- e) Improved security and business environment in the Municipality.
- f) Properly drained roads and improved access roads within informal settlements.
- g) Reduced incidents of urban insecurity.
- h) Ease the process of office coordination for effective and efficient services delivery.

10.0 Implementation modalities and timeframe

The responsibility of the implementation of the projects is with the Municipal Manager who is answerable to the Municipal Board and assisted by the technical committee who will be engaged by the board through the County Project coordination team (CPCT) with other staff from County Public Works Departments. On other hand, The Municipal Board will work closely with County Public works as external supervisor to manage project implementation in collaboration with technical team from NPCT as quarterly project supervision and monitoring team.

The procurement for the planned activities will be done through open tenders to allow for transparency in the process and for fair competition among qualified contractors.

All the projects are expected to be completed by the end of June 2025. Unless an unforeseen situation arises which will be documented to justify the occurrence once it happens.

NB/ with availability of budget, the projects will be implemented in FY 2024/2025. The project site was identified and the project's design is ongoing and will be posted for advertisement once the ESIA, Design, is complete. (With availability of funding)

County: Isiolo County

Financial Year: 2024/2025

Municipality Waste Facility Establishment Budget

Municipality	Project	Activity	Timeframe												Implementati on modality	Cost elements	Proposed UDG Budget in Kshs
Isiolo	Relocation of waste management facility consisting of fence and gates, supply of 10 garbage bins with the installation of the incinerator, two rooms for security and sanitation block with and erection of 3 no high mast flood lights within Integrated location of Municipality of Isiolo	Rehabilitatio n of waste management facility consisting of fence and gates, supply of 10 Garbage Bins with installation of the incinerator, two rooms for security and sanitation block, and erection of 3 no high flood masts within the integrated location of Municipality	M	J	J	A	S	O	N	D	J	F	M	A	Municipal Manager/ CPCT Project Supervisor/ Consultants /County Public works	Civil works Rehabilitation fence and gates, supply of 10 Garbage Bins with the installation of the incinerator, two rooms for security and sanitation block, and erection of 3 no high flood masts within the Municipality	57,988,560.40
TOTAL																	57,988,560.40

The Total cost of this will be **Ksh 57,988,560.40** After the full implementation of the proposed integrated works .

WASTE FACILITY PROJECTS DETAILED BUDGET

ISIOLO MUNICIPALITY ITEMISED BUDGET FOR THE KUSP 11 IMPLEMENATATION FY 2024-2025				
SNO	ITEMS	UNIT	UNIT COST	TOTAL
1	Environmental Impact Assessment (ESIA)	1	650,000.00	650,000.00
2	Development of Facility design	1	350,000.00	350,000.00
3	Purchase of 10 no of Garbage Collections Bins	10	650,000.00	6,500,000.00
4	Construction of 3 rooms and sanitation blocks for the services providers	1	4,350,000.00	4,350,000.00
5	Installation of three no high Flood Mast in integrated location.	1	6,600,000.00	6,600,000.00
6	Fencing of the facility with entry and exit gates.	1	10,540,320.60	10,540,320.60
7	Purchase of Enforcement/Office Coordination vehicles.	1	15,750,355.90	15,750,355.90
8	KPLC Connection of Urban estate street lights within Municipality.	1	7,542,123.90	7,542,123.90
9	Installation of the incinerator for the facility.	1	5,705,760.00	5,705,760.00
	GRAND TOTAL			57,988,560.40

Approved by



.....Date.....

Halake Osman Dadacha

Municipality Manager.

Official Stamp