REPUBLIC OF KENYA



MURANG'A COUNTY ASSEMBLY Received Clerk's Office	
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MURANG'A COUNTY ASSEMBLY

SECTORAL COMMITTEE ON WATER AND IRRIGATION

REPORT OF THE WORKSHOP ON SCRUTINY OF THE STATUS AND DISTRIBUTION OF COUNTY OWNED DAMS AND WATER PANS IN MURANG'A COUNTY HELD ON FEBRUARY 19 -20, 2023 AT SPORTS VIEW HOTEL KASARANI, NAIROBI

CAHBRC List in the OP 26/4/23

1.0 Preface

On behalf of the Sectoral Committee on Water and Irrigation, it is my pleasure and duty to present the report of the workshop on scrutiny of the status and distribution of dams and water pans in Murang'a County held at Sports View Hotel, Kasarani in Nairobi on February 19 -20, 2023.

1.1 Committee Membership

1. Hon. Edwin Mwangi Wairagu	 Chairperson
2. Hon. Margaret Wanjiku Gichia	- Vice Chairperson
3. Hon. Hon. John Ngugi Kibaiya	- Member
4. Hon. Kenneth Kamau Mwangi	- Member
5. Hon. Dinah Damaris Muthoni Kagiri	- Member
6. Hon. Samson Mukora Ngigi	- Member
7. Hon. Alex Ndunda Makau	- Member
8. Hon. Jane Mukami Kigotho	- Member
9. Hon. Jeremiah Clement Gichobe Mbatia	- Member
10. Hon. Steven Muigai Kimani	- Member
11. Hon. Mark Gicheru	- Member

Committee Secretariat

The Secretariat supporting the Committee comprises of the following staff:

 Grace W. Thiong'o 	 Senior Clerk Assistant
Josphat Muraya	- Clerk Assistant
3. Grace W. Kabutha	- Hansard Reporter
4. Mary Njambi Kamau	- Researcher
5. David Kimani Waithira	- Sergeant At Arms

1.1 Committee Mandate

Pursuant to Standing Order 204, the Committee on Water and Irrigation is mandated to consider all matters related to implementation of specific national government policies on water for both domestic and industrial use, irrigation, water pans, dams, storm water and sanitation services

Further, Standing Order 195(5) provides that, the functions of a sectoral committee shall be to-

- (a) Investigate, inquire to, and report on all matters relating to the mandate, management, activities, administration, operations and estimates of the assigned departments;
- (b) Study the programme and policy objectives of departments and the effectiveness of the implementation;
- (c) Study and review all county legislation referred to it;
- (d) Study, assess and analyze the relative success of the departments as measured by the results obtained as compared with their stated objectives;

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- (e) Investigate and inquire into all matters relating to the assigned departments as they may deem necessary, and as may be referred to them by the Assembly;
- (f) To vet and report on all appointments where the Constitution or any law requires the Assembly to approve, except those under Standing Order 189 (Committee on Appointments); and
- (g) Make reports and recommendations to the Assembly as often as possible, including recommendation of proposed legislation

1.3 ACKNOWLEDGEMENTS

The Committee wishes to sincerely thank the Offices of the Speaker and the Clerk of the County Assembly for the support and services extended to the Members to enable the Committee complete this report. The Committee lastly thanks the Secretariat for their dedicated effort and hard work.

On behalf of the Committee, I now have the honor and pleasure to present this report.

Thank you							
Signed	•••••						
Hon. Edwin Mwangi	Wairagu						
(Chairperson)							
Dated	2023						

2.0 BACKGROUND

A dam is a structure built across a river or stream to hold backwater. The purpose of a dam is to impound (store) water, wastewater or liquid borne materials for any of several reasons, such as flood control, human water supply, irrigation, livestock water supply, and energy generation, containment of mine tailings, recreation, or pollution control. A dam can also be used to collect water or for storage of water which can be evenly distributed between locations. Dams generally serve the primary purpose of retaining water, while other structures such as floodgates or levees (also known as dikes) are used to manage or prevent water flow into specific land regions. One of the advantages of dams and reservoirs is they are constructed to store surplus waters during wet periods, which can be used for irrigating arid lands. One of the major benefits of dams and reservoirs is that water flows can be regulated as per agricultural requirements of the various regions over the year

Water pans are a simple method of storing water, particularly relevant for livestock farmers in arid areas. Pans are dug in low-lying land, normally in flat area. They collect water from small streams and rivulets, which flow over the surrounding land during rainfall. Farmers can have access to water for use in the farm even in times of drought by building water pans to harvest and conserve the commodity. Farmers can have access to water for use in the

The Executive department on Water and Irrigation submitted the report on the status and distribution of dams and water pans in Murang'a County on January 23, 2023 through the Office of the Clerk. The report was further forward to the Committee on Water and Irrigation for scrutiny and report back to the House through a Committee's report on the same.

The Committee in a sitting and resolved to hold a two days' workshop from February 19 -20, 2023 at Sports View hotel Kasarani, Nairobi to scrutinize the document and write report on the same for adoption in the House.

3.0 <u>SCRUTINY OF THE STATUS AND DISTRIBUTION OF DAMS AND</u> WATER PANS IN MURANG'A COUNTY

3.0. Members were taken through the status and distribution of dams and Water Pans in Murang'a County as follows;-

	Name of Dam/Pan	Locality	Estimat ed Targete d Benefici aries (HH)	Functiona 1/Non functional	Use (Domestic, Livestock, Electricity , Irrigation)	Physical Status (silted, breached , etc)	Remarks/Req uired Interventions
1	Katipanga /Ngimu Dam 1	Kimorori area in Wempa ward	50	Non functional	livestock watering	Silted ,no spillway & dilapidat ed dam wall	Requires redesign & reconstruction

3	Katipanga /Ngimu Dam 2	Kimorori area in Wempa ward	300	Non functional Functional	Livestock watering Domestic,	Silted & dilapidat ed spillway	Requires de silting , spillway rehabilitation & fencing Requires de
	main/Ngi mu Dam 3	area in Wempa ward			minor irrigation & livestock watering	Have moderate water level ,silted & dilapidat ed spillway	silting , spillway rehabilitation & fencing
4	Punda Milia Dams	Punda Milia in Makuyu ward,	700	Functional	Domestic Irrigation Livestock	Silted. Have moderate water level	Dams require de-silting , spillway reconstruction & fencing
5	Iganjo/Sil anga water pan	Iganjo area in Kamahu ha ward	200	Non functional	Dried up	Silted up	Requires reconstruction of water pan
6	Kaharati/ Silanga Dam	Kaharati area in Kamahu ha ward	200	Partially Functional	Domestic & Livestock	Dam wall and Spillway demolish ed. Dam area completel y encroach ed.	Requires desilting, re-design and construction of dam wall and spillway.
7	Dera Dam	Makuyu , Kambiti ward	300	Functional	Domestic , minor irrigation & livestock watering	Good. Has moderate water level.	Rehabilitation of spillway, fencing & de silting required
8	Githanji Dam	Kenol area in Wempa ward	350	Functional	Domestic , minor irrigation & livestock watering	Good. Has moderate water level	Requires desilting, construction of spillway and fencing

9	Mariki 1 Dam	Maragua, Samar area Nginda ward	300		Domestic Irrigation Livestock	Good. Have moderate water level.	Requires reinforcement of dam wall and construction of spillway.
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10	Mariki 2	1	100	I D 1	- ·	1	
10		Maragua,	400	Functional	Domestic	Good. Have	Requires
	Dam	Samar			Irrigation	moderate	design and
	1	area			Livestock	water level.	construction
		Nginda					of spillway
		ward	ĺ				and watering
		waiu					troughs for
							livestock
							away from
							the dam wall
							and improved
							fencing
							around the
							dam.
11	Mariki 3	Maragua,	450	Non	Dried up	Silted up and	Occupies a
	Dam	Samar		functional	_	dam wall	big surface
		area				completely	area.
		Nginda				breached	However it is
		ward				breached	completely
		ward					encroached
							and its
							reservoir area
							is sub-
							divided and
							sold to
			1				private
1							developers.
			1				It's one of the
1			1				major storage
							facility
							compared
							with other
							dams in the
							vicinity. If
							reclaimed
							and re-
							constructed
				e			it can be the
				1	1		best source
				1			of irrigation
							water in the
							whole of
			- 1		1		Kamahuha
							and Kambiti
							locations.
							The dam site
							is occupied
							by absentee
							landlords
							who have
							leased the
							farms to the
							locals.

12	Gakoigo Dam	Maragua, Nginda ward	400	Functional	Domestic Livestock Coffee pulping	Silted up. Moderate water level	Requires desilting and improvement by constructing a strong dam wall to impound more water. Dam vital for irrigation water
13	Methi- Swani Dam	Makuyu, Wempa ward	350	Partially Functional	Domestic Irrigation Livestock	Poor, silted. Dam completely dry, encroachment of catchment reservoir, underground seepage and broken down spillway.	Requires desilting and repair of the spillway.
14	Kiangamba Water pan	Maragua ridge Kambiti ward	50	Partially Functional	Livestock	Poor. Silted	Requires desilting & reservoir enlargement
15	Maragua Ridge Water Pan	Maragua, Maragua ridge ward	100	Partially Functional	Domestic Livestock Irrigation	Poor. Silted up.	Requires desilting
16	Mugira Dam	Makuyu, Kambiti ward	250	Functional	Domestic Livestock Irrigation	Fair, clean water. Silted and spillway eroded and cut away thus emptying the dam and reducing its retention capacity.	Requires desilting, redesigning and construction of spillway. Best for domestic and irrigation use. Dam area enclosed by adjacent farmers.
17	Marema and 49 Dams	Makuyu, Kambiti ward, Marema farm	60	Partially Functional	Domestic Irrigation	Heavily silted and spillway damaged	Requires desilting, fencing, design and construction of a spillway.

18	Kianduru	Makuyu,	65	Partially	Domestic	Heavily silted	Requires de-
	Dam	Makuyu		Functional	Irrigation	and bushy,	silting,
		ward				Dam	fencing,
						encroached,	protection of
						illegal farming	springs that
						along dam	feed the dam
						catchment,,	and clear
						not properly	demarcation
						demarcated,	of dam area.
						little water,	
						fed by three	
						springs	
19	Kitune	Makuyu,	40	Partially	Domestic	Heavily silted	Requires de
	Water Pan	Kambiti		Functional	Livestock	and requires	silting &
		ward				outlet	increase
						construction	reservoir
							capacity

20	Mitubiri	N/-1-	200	D	[D	0:14 1	
20		Mak	300	Functio	Domestic	Silted,	Requires
	Dam	uyu,		nal	Irrigation	spillway	de-silting,
		Wem				damaged	repair of
		pa					spillway,
		Ward					clear
		,					demarcatio
		Kihiu					n of dam
		mwir					area,
		i					fencing and
-							controlled
							abstraction.
							Dam is
							being used
							for
							horticultura
							1 farming
							adjacent to
							it.
21	Gikono	Mak	450	Functio	Domestic	Encroached.	Spillway
	Dam	uyu,		nal	Irrigation	Dam has a	requires re-
		Wem			Livestock	lot of water,	design and
		pa				poorly	constructio
		Ward				utilized, no	n. Riparian
		,				economic	reserve
		Mitu				activity	requires
		mbiri				apart from	protection
		area				small-scale	since
						irrigation	people have
						through	cultivated
						siphoning of	up to dam
						water.	edge, a
							water
							project is
							necessary

			_				
							to supply the locals with water.
22	Wairuri dam	Mara gua, Sam ar Kam ahuh awar d	50	Partiall y Functio nal	Domestic Irrigation Livestock	Silted	Requires reconstructi on of dam wall & increase reservoir capacity
23	Kiboko dam	Mara gua wem pa ward	35	Partiall y Functio nal	livestock	Silted	Requires reconstructi on of dam wall & increase reservoir capacity
24	Muli dam	Mara gua kam biti ward	500	Functio nal	Domestic Irrigation Livestock	Partially silted	Requires de silting & fencing
25	Makuyu dam	Mara gua mak uyu ward	80	Functio nal	Domestic Livestock	Silted	Requires de silting, fencing, reconstructi on of dam wall, spillway & increase reservoir capacity
26	Mariira Dam	Kigu mo, kang ari ward	80	Functio nal	Livestock Irrigation	Heavily silted. Owned by Kenyatta ATC, Mareira.	Institutiona 1 dam. Requires de-silting and rehabilitatio n

27	Matunda	<u>Gatanga</u>	•	Func	Domestic	Silted	Requires de-
	Dam	Sub-county		tiona	Livestock	up,	silting,
		Kakuzi/Ru		1	Irrigation	Vegetati	catchment
		biru/Kaku			Fishing	on	conservation,
		zi			Leisure	growth,	spillway
						pollutio	Redesign and
						n by	construction,
						livestock	construction

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28 Nginyi Dam " 80 Func tiona l " " " " " " " " " " " " " " " " " "							800	AND THE PROPERTY OF THE PROPER
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Hon. Speaker, the Committee members came up with the following observations and recommendations

4.0 COMMITTEE'S OBSERVATIONS

- 1. The members noted that most of the dams and water pans are located in the semi arid areas within the County.
- 2. It was noted that most of the dams are used for harvesting water for domestic and livestock consumption and irrigation purposes.
- 3. Most of the dams requires de-silting, fencing, rehabilitation thus increase in reservoir capacity
- 4. Members observed that, most of the dams are partially functional and non-functional hence not serving the residents efficiently

5.0 COMMITTEE'S RECOMMENDATIONS

- 1. **THAT**, the County Executive in charge of Environment to formulate policies that will guide in the management and operations of County owned dams and Water pans to be adopted in the Assembly.
- 2. That, the CEC in charge of Water and Irrigation to factor the rehabilitation of the dams and water pans which are partially functional and non-functional in the next financial year Budget 2023 2024.
- 3. That, the County Executive Committee Member in charge of Water and Irrigation to consider desilting all the Water Dams in Murang'a County. This will enable the same to hold more water levels to satisfy the area residents.
- 4. That, the Department to consider fencing all the Water dams and Water pans in Murang'a County to avoid endangering of Children and Livestock from drowning in the said facilities.
- 5. The CECM in charge of Environment and Natural Resources to consider planting of bamboo trees along the dam's water banks. This will control flooding of the dams during rainy seasons.
- 6. That, the CECM in charge Water and Irrigation to consider construction of separate water drinking points from the main dams for the livestock consumption.
- 7. That, due to the high increase in population in Mitubiri Ward, thus increase in water consumption, the CEC to consider pumping water uphill from Mitubiri dam for irrigation purposes by the residents.
- 8. That, the CEC to factor constructions of two dams in Gitugi ward to serve the residents of Ruiru and Yakarengo since the area is too dry.

9. That, the County Executive Member for Water and Irrigation should submit quarterly reports on implementation status of the dams and water pans for consideration and monitoring by the Committee.

SIGNATURE **DESIGNATION** NAME - Chairperson Hon. Edwin Mwangi Wairagu Hon. Margaret Wanjiku Gichia - Vice Chairperson Hon. Hon. John Ngugi Kibaiya - Member Hon. Kenneth Kamau Mwangi - Member Hon. Dinah D. Muthoni Kagiri - Member Hon. Samson Mukora Ngigi - Member - Member Hon. Alex Ndunda Makau - Member Hon. Jane Mukami Kigotho - Member Hon. Jeremiah Clement Gichobe

- Member

- Member

Hon. Steven Muigai Kimani

Hon. Mark Gicheru