

# REPUBLIC OF KENYA



## MURANG'A COUNTY ASSEMBLY

### SECTORAL COMMITTEE ON WATER AND IRRIGATION

REPORT OF THE WORKSHOP ON DEPARTMENTAL  
WORK PLAN AND PROPOSED PROJECTS FOR FY  
2022 -2023 HELD ON JANUARY 31 - FEBRUARY 2,  
2023 AT SUN STAR HOTEL NAIROBI

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## 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 departmental work plan for FY 2022 – 2023 held at Sun Star Hotel Nairobi on January 31 – February 2, 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:

- |                          |                          |
|--------------------------|--------------------------|
| 1. Grace W. Thiong'o     | - Senior Clerk Assistant |
| 2. 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-

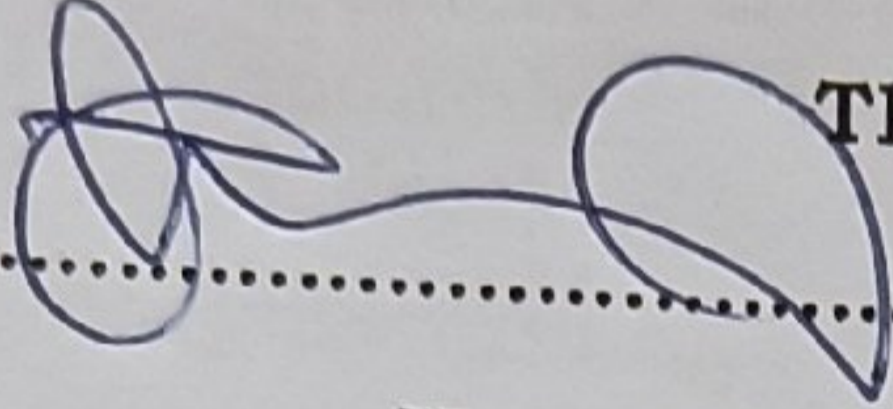
- Investigate, inquire to, and report on all matters relating to the mandate, management, activities, administration, operations and estimates of the assigned departments;
- Study the programme and policy objectives of departments and the effectiveness of the implementation;
- Study and review all county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

Every Kenyan has a right under Article 43(1) (d) of the Constitution of Kenya 2010 to clean and safe water in adequate quantities. Having clean water is vital to our individual health, our collective agricultural needs, and the needs of our environment. It is the foundation of all life and important to sanitation, human rights, urbanization, sustainability and economic growth

Water is one of the natural resources, which is found in adequate amount. It is an essential source for the existence of life on the planet earth. It is widely used for various purposes such as drinking, washing, bathing, cleaning, cooking, irrigation, and other industrial and domestic uses.

The water harvesting and storage should deal with policy formulation and regulation for water harvesting and storage for public and domestic use. It focusses on increasing availability of strategic and domestic capacity of water for use by the County residents at all times including water for economic uses.

The departmental work plan should clearly articulate the required steps to achieve a stated goal by setting demonstrable objectives and measurable deliverables that can be transformed into concrete actions. The Executive department on Water and Irrigation submitted the Departmental work plan for FY 2022 – 2023 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 adoption of a Committee's report on the same.

The Committee in a sitting resolved to hold a three days' workshop from January 31 – February 2, 2023 at Sun Star hotel Nairobi to scrutinize the document before inviting the County Executive Committee Member in charge of Water and Irrigation on Thursday February 16, 2023 at 12.00 pm to respond to the concerns of the members from the report.

## 3.0 SCRUTINY OF THE DEPARTMENTAL WORK PLAN FOR FY 2022 – 2023

Members were taken through the proposed projects for FY 2022 – 2023 as follows:-

Project Name	Location	Proposed Activities	Budget	Key Deliverable	%completion	%completion	%completion	%completion
					Q1	Q2	Q3	Q4
Borehole drilling, equipping, including solar installation	1.Gitugi Borehole 2.Gaturi Borehole 3.Ithiru Borehole	Drilling, equipping with elevated tank, and solar system installation	55 m	11 New Boreholes Drilled, equipped and commissioned	0	0	60	100

on	4. Mbiri Borehole	"		oned				
	5. Kangema Borehole	"						
	6. Kambiti - Mihang'a Borehole	"						
	7. Muthithi Borehole	"						
	8. Kakuzi Borehole							
	9. Makuyu Borehole							
	10. Wempa Borehole							
	11. Kahumbu Borehole							
Borehole Rehabilitation and installation of solar power system	1. Ngatho Borehole	Elevated tank and solar system	15m	10 boreholes rehabilitated and equipped with solar systems	0	0	80	100
	2. Kirwara Borehole	Elevated tank and solar system						
	3. Gitura Borehole	Elevated tank and solar system						
	4. Ngelelya Borehole	Elevated tank and solar system						
	5. Kenol Borehole	Elevated tank and solar system						
	6. Kwa Mukundi Borehole	Elevated tank and solar system						
	7. Kihiu Mwiri Borehole	Elevated tank and solar system						
	8. Kigio Borehole	Solar system						
	9. Machegecha Borehole	Elevated tank and solar system						
	10. Gatunyu market Borehole	Elevated tank and solar system						

Water Storage Program Purchase of Plastic Mold water tanks	Needy Institutions across the County	Procurement, delivery and issue of tanks to ECD Centres and Needy Community Projects	15 m	75 water tanks each purchase, delivered and installed using elevated structures	0	0	80	100
Rehabilitation of Methi Swan Dam at Kabati	Methi – Kabati area	Rehabilitation of dam spillway, embankment and desilting	5 m	Rehabilitated dam	0	0	90	100
<b>Total</b>			<b>85 M</b>					

### 3.1 BILLS OF QUANTITY FOR DRILLING A BOREHOLE

The Committee was further taken through the Bills of quantity for drilling a borehole as follows.

<b>Bills Of Quantity For Drilling A Borehole (ALL PROVISIONAL)</b>						
<b>S/No</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Total Cost</b>	
1.	Drilling hydrological survey, siting, report filling and authorization	L/S	1	70,000	70,000	
2.	Mobilization/Demobilization of drilling rig and personnel to and from site	L/S	1	100,000	100,000	
3.	Set up and dismantle equipment at site	L/S	1	20,000	20,000	
4.	Allow a P.c sum of One hundred thousand for engineers staff supervision	L/S	1	100,000	100,000	
5	Drilling of a borehole 8" dia. from 100 meters	Meter	100	3,500	350,000	
6	Drilling of a borehole 8" dia. from 200 meters	Meter	100	4,000	400,000	

7.	Drilling of a borehole 8" dia. from 200 meters upto 250 meters	meter	50	4,500	225,000
8	Supply and Installation of 152 mm steel plain casings	Meter	200	3,500	700,000
9	Supply and Installation of 152 mm slotted plain casings(screens)	Meter	50	4,500	225,000
10	Borehole development by jetting with compressed air	L/S	1	40,000	40,000
11	Borehole test pumping to ascertain yield	Hrs.	24	4,500	108,000
12	Supply of 2.4 mm graded gravel pack material	Ton	10	13,000	130,000
13	Borehole Logging and water Sampling	Logs	125	100	12,500
14	152 mm borehole cap	No.	1	6,300	6,300
15	Full water sample-chemical, bacteriological analysis	No	1	25,000	25,000
16	Reporting and filing of water analysis	L/S	1	30,000	30,000
17	provide for the supply and instillation of submersible pump model Varuna or any other equally approved of capacity 5m <sup>3</sup> /hr at a head of 180m and install solar power model GD 100- 5R 5G -4-PV	L/S	1	977,000	977,000
18	Provide for the design and construction of a water kiosk 3 m above ground level, size 3m x 3m, with 4No columns to support a 10,000 litres plastic water tank above of approved make.	No	1	750,000	750,000
	<b>SUB TOTAL</b>				<b>4,268,800.00</b>
	Add 16% V.A.T				683,008.00
	<b>GRAND TOTAL TAKEN TO FORM OF TENDER</b>				<b>4,951,808.00</b>



**BILLS OF QUANTITY FOR A BOREHOLE REHABILITATION AND SOLARISATION**

Members scrutinized the bills of Quantity for a borehole rehabilitation and installation of Solar Power System as follows:-

Bills Of Quantity For A Borehole Rehabilitation and Solarisation					Market Survey
S/No	Description	Unit	Quantity	Unit Cost	Total Cost
5.	Mobilization/Demobilization of machines and personnel to and from site	L/S	1	70,000	70,000
6.	Allow a P.c sum of fifty thousand for engineers staff supervision	L/S	1	50,000	50,000
7.	set up and dismantle at site	L/S	1	20,000	20,000
8.	Borehole test pumping to ascertain yield	Hrs	24	4,500	108,000
9.	Reporting and filing of water analysis	L/S	1	30,000	30,000
10.	Provide for the supply and installation of UPVC heavy duty pipes to replace the GI pipes	No	60	2,000	120,000
11.	provide for the supply and instillation of submersible pump model Varuna or any other equally approved of capacity 5m <sup>3</sup> /hr at a head of 180m and install solar power model GD 100- 5R 5G -4-PV	No	1	977,000	977,000
<b>SUB TOTAL</b>					<b>1,375,000.00</b>
Add 16% V.A.T					220,000.00
<b>GRAND TOTAL TAKEN TO FORM OF TENDER</b>					<b>1,595,000.00</b>

Members raised the following questions from the report which the CEC was to respond in the Committee meeting scheduled on Thursday 16, 2023.

1. As per the approved supplementary budget, the water department had a budgetary allocation of 65m, whereas the total budget in the work plan is 85m, please explain the discrepancy.
2. The report indicates that, there are water tanks to be distributed to needy ECDE centers across the County, what will be the criteria in choosing the schools to benefit?
3. Do we have any operational irrigation schemes in the county? If yes, where are they located and what is their rating in terms of positive impact to the community.
4. What is the justification of the projects in the work plan as key areas of priority?

#### **4.0 MEETING WITH THE COUNTY EXECUTIVE COMMITTEE MEMBER IN CHARGE OF WATER AND IRRIGATION**

The Committee assembled in the Speakers Board room on Thursday February 16, 2023 to meet the County Executive Committee Member in charge of Water and Irrigation to further discuss and clarify on the departmental work plan for FY 2022 – 2023. Two departmental Officers accompanied the CEC to the meeting, the Director of Water Services and Acting Director Irrigation.

The CEC explained to the Committee that,

- 1) The proposed departmental Supplementary Budget was initially Kshs. 65 Million, but was increased by Kshs. 20 Million totaling Kshs. 85 Million.
- 2) Out of the approved Kshs. 85 Million, Kshs. 30 Million was to cater for departmental pending bills.
- 3) The remaining Budget, the department considered drilling of 11 new boreholes, equip with elevated tanks and solar system installation at a cost of Kshs. 55 Million. The proposed new boreholes are;-

1. Gitugi Borehole
2. Gaturi Borehole
3. Ithiru Borehole
4. Mbiri Borehole
5. Kangema Borehole
6. Kambiti –Mihang'a Borehole
7. Muthithi Borehole
8. Kakuzi Borehole
9. Makuyu Borehole
10. Wempa Borehole
11. Kahumbu Borehole

Members noted that, due to the constraint of the Budget, most of the proposed projects in the work plan would not to be undertaken in this financial year as planned. Members in consultation with the CECM resolved to prioritize the same in the next financial year.

#### **5.0. COMMITTEE OBSERVATIONS**

After scrutiny, the Committee observed the following from the report

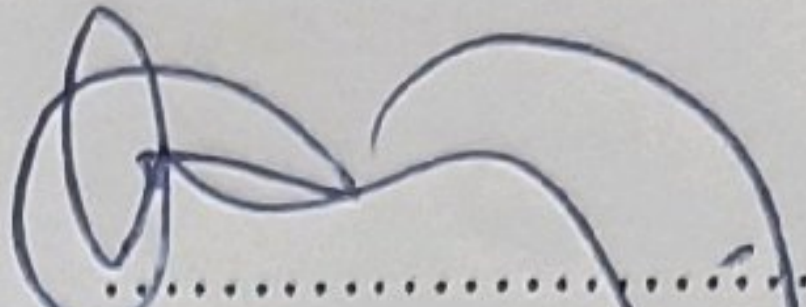
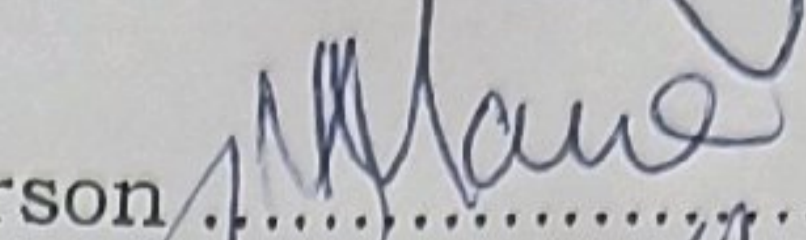
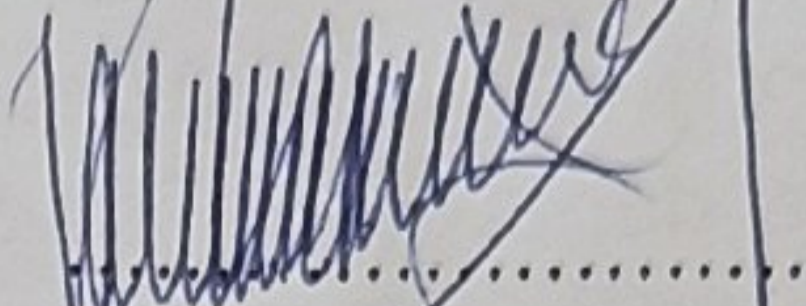
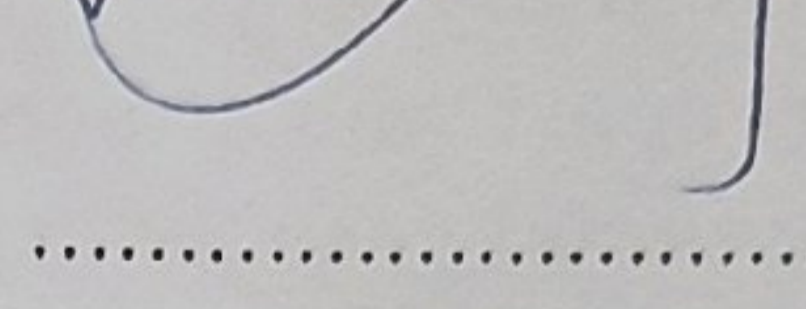
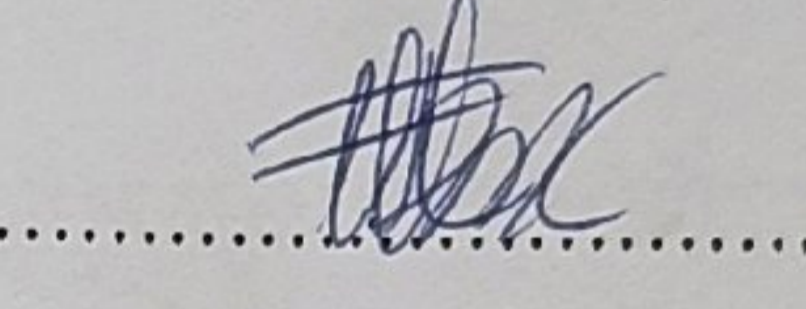
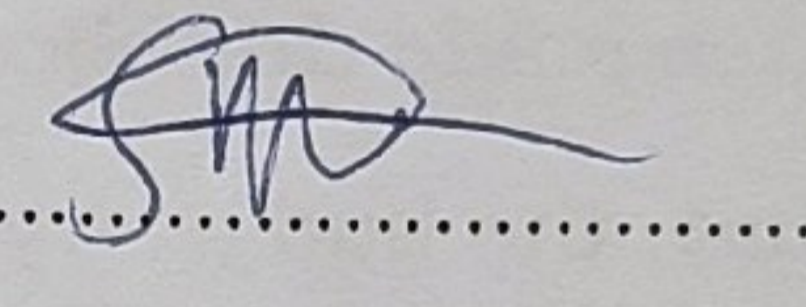
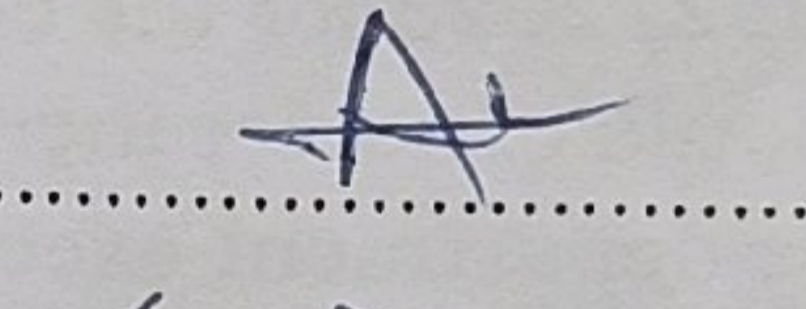
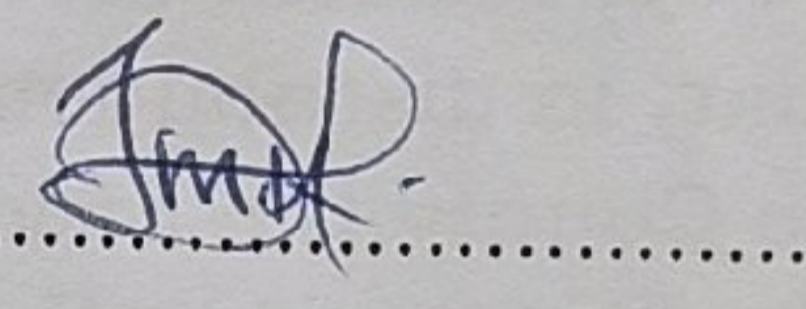
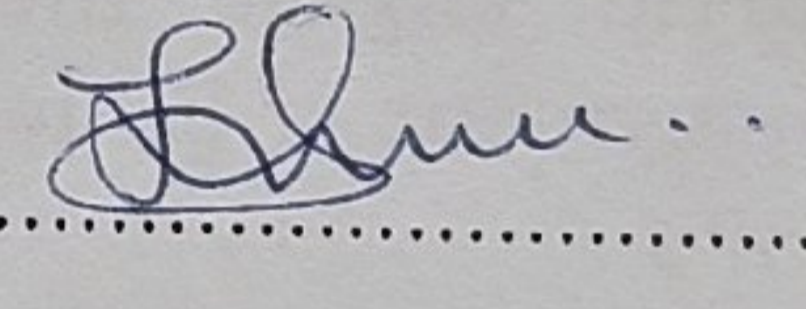
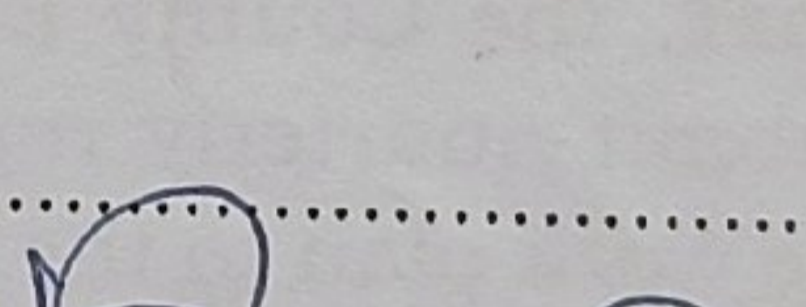
- 1) That as per the recommendations of the Committee during the scrutiny of the supplementary budget to have budgetary allocation for the department of water increased, the County Executive Committee Member for Water lobbied for the same and an increase of Kshs. 20 Million was made increasing the budget from Kshs. 65 Million to Kshs. 85 Million.

- That the department of Water has pending bills totaling to approximately Kshs. 30 million and the CECM had written to the CECM in charge of Finance to furnish the department with a list the actual pending bills.
- 3) That, the Department had proposed to purchase 75 water tanks for needy ECDE centers across the County with an allocation of Kshs. 15 Million. The distribution of the same will be two tanks per ward in consultation with the Education department and the elected area Member of County Assembly (MCA).
  - 4) That, the department had proposed drilling of 11 new boreholes across the County in the financial year 2022/2023 at the cost of Kshs. 55 million.
  - 5) That, the department had proposed rehabilitation of 10 boreholes across the County in the financial year 2022/2023 at the cost of Kshs. 15 Million.
  - 6) That, the department had proposed rehabilitation of Methi Swan Dam at Kabati this financial year at the cost of Kshs. 5 Million.
  - 7) That, the report was attached with Bill of Quantities for the proposed projects for the financial year 2022/2023.

## **6.0 COMMITTEE RECOMMENDATIONS**

The Committee made the following recommendations;

1. **That**, the budgetary allocation of Kshs. 85 Million in the financial year 2022/2023 for the department of water was insufficient and the County should consider increasing the allocation in subsequent years to enable the department execute its mandate effectively.
2. **That**, in distribution of water tanks to the needy ECDE centers across the County the Executive Committee Member for Water and Irrigation should engage the area Member of County Assembly and the department of Education in determining the beneficiaries of the water tanks .
3. **That**, the County Executive Member for Water and Irrigation should submit quarterly reports on implementation status of the projects in the work plan to the Committee. This will greatly assist the members in monitoring progress of the approved projects.

NAME	DESIGNATION	SIGNATURE
Hon. Edwin Mwangi Wairagu	- Chairperson	
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	
Hon. Alex Ndunda Makau	- Member	
Hon. Jane Mukami Kigotho	- Member	
Hon. Jeremiah Clement Gichobe	- Member	
Hon. Steven Muigai Kimani	- Member	
Hon. Mark Gicheru	- Member	