

**DETAILS OF PUBLIC CONSULTATION FOR NANYUKI WATER AND SANITATION COMPANY LTD  
(FOR THE PERIOD 2024/2025 – 2028/2029)**

**1.0 Cost and Revenue Structure for the Tariff Period**

Expenditure Item	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29
Operations	254,368,165	273,611,924	280,566,805	287,554,942	294,970,118	300,381,699
Maintenance	52,833,985	58,683,250	50,523,746	52,279,640	54,127,659	56,211,377
Regulatory Levy	15,381,399	15,561,344	19,867,604	21,554,628	22,496,680	23,551,278
<b>Total O&amp;M Costs</b>	<b>322,583,549</b>	<b>347,856,518</b>	<b>350,958,155</b>	<b>361,389,209</b>	<b>371,594,457</b>	<b>380,144,354</b>
Investment Costs	43,443,030	34,846,885	40,219,817	46,743,480	55,828,880	45,999,057
Debt Repayment	844,025	16,964,090	16,964,090	15,671,940	15,671,940	15,671,940
<b>Total Costs</b>	<b>366,870,604</b>	<b>399,667,493</b>	<b>408,142,062</b>	<b>423,804,629</b>	<b>443,095,277</b>	<b>441,815,351</b>
<b>Total Billing (KShs)</b>	<b>384,534,980</b>	<b>389,033,612</b>	<b>496,690,106</b>	<b>538,865,690</b>	<b>562,417,009</b>	<b>588,781,949</b>
Collection Efficiency (%)	96%	95%	95%	95%	95%	95%
Projected Revenue	369,791,873	369,581,931	471,855,601	511,922,405	534,296,159	559,342,852
O&M Cost Coverage	115%	106%	134%	142%	144%	147%
Total Cost Coverage	101%	92%	116%	121%	121%	127%

**2.0 Proposed Change in Water Tariff Structure for the Period**

Proposed Tariff for Nanyuki & Water Sanitation Co. Ltd.				
Consumer Categories	Consumption Block (M <sup>3</sup> )	Current Tariff (Kshs/M <sup>3</sup> )	Consumption Block (M <sup>3</sup> )	Proposed Tariff (Kshs/ M <sup>3</sup> )
Domestic/Residential	1-6	54	1-6	62
	7-20.	59	7-20.	86
	21-50	65	21-50	90
	51-100	75	51-100	95
	101-300	102	101-300	115
	>300	124	>300	130
Multi-Dwelling Units (>5 units with a shared connection)		N/A	Per M3	86
Commercial/Industrial	1-50	65	1-50	90
	51-100	75	51-100	95
	101-300	102	101-300	115
	>300	124	>300	130
Government/Institutions	1-50	65	1-50	90
	51-100	75	51-100	95
	101-300	102	101-300	115
	>300	124	>300	130
Public Schools, Colleges and Universities	1-600	54	1-600	90
	601-1200	65	601-1200	115
	>1200m3	75	>1200m3	130
Unique Consumer Categories	Yard Pats	54	Per M3	86
	Kiosks	35	Per M3	35

Customers with non-functional meters shall be billed based on the average of the last three months' bills

### 3.0 Sewerage Tariff Structure for the period 2024/2025 to 2028/2029

#### a) Consumers with a Water Connection

Sewerage will be charged at 75% of the water volumes, billed at the tariff for water specified (in 2.0) above for all customer categories.

#### b) Consumers without a Water Connection

Sewerage consumers without a water connection shall be charged as follows:

- Single dwelling Domestic unit: Ksh. 300 Per Month
- All other categories: 75% of the Volume of water consumed as per the metered source at the rates specified (in 2.0) above.

### 4.0 Indexation

The utility's tariffs for water and sewerage shall be eligible for annual indexation as per the Water Services Regulatory Board (WASREB) regulations. The inflation adjustment shall come into effect after a full year of implementation, on the 15th day of July every year, and shall remain in force until the 14th day of July the following year.

### 5.0 Miscellaneous Charges

Item/ Service	Charge (Ksh.)
<b>Water Deposit</b>	
<b>Category of consumer</b>	
Domestic	2500
Retail shops less than 10m <sup>3</sup>	3000
Retail shops more than 10m <sup>3</sup>	3,500
Bar, and restaurants less than 15 m <sup>3</sup>	4000
Bar, restaurants more than 15 m <sup>3</sup>	6,000
Hotel class "A" and "B" less than 150 m <sup>3</sup>	12,000
Hotel class "A" and "B" more than 150 m <sup>3</sup>	15000
Hotel class "C" and 'D' less than 150 m <sup>3</sup>	18000
Hotel class "C" and 'D' more than 150 m <sup>3</sup>	20,000
Hospitals more than 150 m <sup>3</sup>	20,000
Health centres less than 150 m <sup>3</sup>	12,000
Schools and other institutions more than 200 m <sup>3</sup>	20,000
Schools less than 200 m <sup>3</sup>	10,000
Minor construction sites of more than 200 m <sup>3</sup>	15,000
Major construction sites more than 300 m <sup>3</sup>	50,000
Light industries less than 200 m <sup>3</sup>	30,000
Medium industrial between 200 m <sup>3</sup> and 300 m <sup>3</sup>	50,000
Heavy industries of more than 300 m <sup>3</sup>	100,000
Water Kiosks	5,000
Customers with only sewer connection are to be charged a deposit equivalent to a water connection	
<b>Other Charges</b>	

Item/ Service	Charge (Ksh.)
<b>Service</b>	
New water connection fee – Connection size: ½ inch to 1 inch	2,500
New water connection fee – Connection size: 1.5 inches to 3 inches	7,500
New water connection fee – Connection size above 3inches	15,000
Water Reconnection fee – at meter point	1,000
Water Reconnection fee – at mains	5,000 and double deposit
Tanker – 8000, 16,000 litres	2,500, 5,000 respectively per tanker within NAWASCO's area for all consumers
Sale of water Per M <sup>3</sup> at bowsing point (own tanker)	KSh. 86
Replacement of stolen or damaged meters	100% of the market cost of the meter
Meter testing on request	500
Sewer Connection- Residential/ Domestic	5,000
Sewer Connection- Commercial, Government, Schools, Universities and Colleges	7,500
Sewer Connection- Industrial	15,000
Private sewer unblocking	2,500
Leak detection services	1,000
Sewer Reconnection fee	15,000
Statement of account fees	200
For cutting off the supply at the request of the consumer	200
For turning on the supply otherwise than in respect of a first connection	200
Exhauster Services (Company Exhauster)	5,000 for other customers and 4,000 for informal settlements
Private Exhausters (Dumping into the company's sewer system)	15,000 per Truck per month
<b>Penalties</b>	
Illegal water connection, -Commercial, Industry, Construction (Fraud)	100,000 plus estimated consumption during the period of illegality
Illegal water connection, (Fraud) – Domestic	30,000 plus estimated consumption during the period of the illegality
Overcharging (fraud) at water kiosk	15,000
Illegal sewer connection- Commercial, Industry, Construction	100,000
Illegal sewer connection- Domestic, Government, Schools, Universities & Colleges	30,000
Self-reconnection after cut-off for non-payment	5,000 and billing to be backdated from the date of cut-off
Surcharge for tampering with meters (this to include meter removal, reversing of meter etc)	5,000
Surcharge for direct suction of water from the supply line using a pump	10,000

#### 6.0 Service Delivery Conditions attached to the Tariff.

The conditions attached to this approval, which shall form part of the license conditions of Nanyuki Water and Sanitation Company Ltd, are:

Target	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
Water Coverage	94%	94%	95%	96%	97%	98%	99%
Water quality standards	100%	100% Compliance with Standards					
Personnel Expenditure as % of O&M	50%	48%	45%	46%	45%	44%	43%
Non-Revenue Water	30%	28%	28%	28%	27%	26%	25%
Hours of Supply (Hrs.)	23	23	23	24	24	24	24
Staff per 1000	7	7	6	6	5	5	5
Metering ratio	100%	100%	100%	100%	100%	100%	100%
Collection Efficiency	99	96%	95%	95%	95%	95%	95%
Resale at Kiosk	Regulate resale by kiosk vendors at Ksh. 2 per 20-litres. Tariffs at kiosks must be displayed at strategic points for public awareness.						

### 6.1 Other Conditions

- i. **Annual budgets:** The utility shall adhere to the budgetary levels set in the tariff.
- ii. **Surpluses:** the surpluses realised during the tariff period shall be used to implement priority service delivery capital projects approved by WASREB.
- iii. **Reporting:** The utility shall submit quarterly performance reports to WASREB in the prescribed format.
- iv. **Creation of distinct water and sewer cost centres:** NAWASCO shall create separate water and sewer cost centres and maintains distinct record of operations of the two centres.
- v. **Investments:** The utility shall undertake the investments as follows: -

NANYUKI WATER & SANITATION COMPANY										
INVESTMENTS SCHEDULE - INTERNALLY GENERATED FUNDS										
TARGETED	SPECIFICATIONS	UNIT	QUANTITY	UNIT COST(KSH)	2024/25 COST (KSH)	2025/26 COST (KSH)	2026/27 COST (KSH)	2027/28 COST (KSH)	2028/29 COST (KSH)	
A. Metering	New water connections (15 mm / 20 mm AMR Enabled cold water meters, R- 200, Copolymer material, volumetric)	No	1,100	10,000	11,000,000					
		No	1,100	10,000		11,000,000				
		No	1,228	10,000				12,280,000		
		No	1,278	10,000					12,780,000	
		No	1,388	10,000						13,880,000
	New water connections (25 mm AMR Enabled cold water meters, R- 160, Copolymer material, volumetric)	No	80	12,000	960,000					
		No	80	12,000			960,000			
		No	60	12,000				720,000		
		No	60	12,000					720,000	
		No	60	12,000						720,000
	Replacement of under-registering/ old meters - (15 mm AMR Enabled cold water meters, R- 200, Copolymer material, volumetric)	No	890	4,000	3,560,000					
		No	890	4,000			3,560,000			
		No	890	4,000				3,560,000		
		No	890	4,000					3,560,000	
		No	890	4,000						3,560,000
	<b>Sub -Total</b>				<b>15,520,000</b>	<b>15,520,000</b>	<b>16,560,000</b>	<b>17,060,000</b>	<b>18,160,000</b>	
B.NRW Reduction	NRW Management Interventions				2,810,000	3,497,028	1,500,000	800,000	3,250,475	
	<b>Sub -Total</b>				<b>2,810,000</b>	<b>3,497,028</b>	<b>1,500,000</b>	<b>800,000</b>	<b>3,250,475</b>	
C. Upgrade and rehabilitation of distribution lines	Baraka Mwai Tosha(6.6km)	Km	7	362,515	2,392,597					
	CBD Bemwaki 2.93km	Km	3	515,945	1,511,720					
	Milimani (Nturukuma) water pipeline upgrade(7.2km)	Km	7	405,408	2,918,936					
	Nkando area water pipeline upgrade(3km)	Km	1	1,569,477	1,726,425					
	Thingithu phase 1 water pipeline upgrade(1.1km)	Km	1	464,769	464,769					
	Nalanya pipeline Extension (Various sizes)-9.3km	Km	9	813,741			7,567,789			
	Kabiru -1.9 kms	Km	2	284,737				541,000		
	Sarafina - camp miazi- airstrip - 20.4 km	Km	20	431,863				8,810,000		
	Reli B - 5.79 km	Km	6	1,122,268				6,497,930		
	Kaugu 4.5km	Km	5	507,978					2,285,900	
	Shika Adabu 5.6km	Km	6	307,532					1,722,180	
	Likii B 6km	Km	6	982,629						5,895,775
		<b>Sub Total</b>				<b>9,014,447</b>	<b>7,567,789</b>	<b>15,848,930</b>	<b>4,008,080</b>	<b>5,895,775</b>
	E. Capital Works	Rehabilitate 6 no-filter media	No	6	166,667	1,000,000				
Construction of storage/balancing tank- Nyariginu			1	4,800,000			4,800,000			
Construction of Storage / balancing tank-RELI B			1	4,667,000			4,667,000			
<b>Sub Total</b>					<b>1,000,000</b>	<b>9,467,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	
F. Automation	20 Smart Phones (internal memory: 128GB 4GB RAM operating system: android 13 and	No	40	15,000	300,000			300,000		
	8 Desktop (HP Elite desk 800g3- Intel core i5 6 th gen/4GB Ram/500GB	No	8	40,000	320,000					
	8 laptops (HP LAPTOP- Intel core i7/8GB Ram/500GB Hard	No	8	70,000	560,000					

	Printer (KYOCERA ECOSYS M6230cidn-print, scan, copy, duplex, network, 30ppm)	No	1	300,000	300,000				
	Open Flow water CAD - (VERSION 10.3)	No	1	320,000	320,000				
	GPS Trackers - (ST- 904 multi-function GPS location tracker with real time SOS) - 1 NO	No	1	161,500	161,500				
	Handhel GPS- GERMIN GPS MAP 66i -ipx 7-16 GB,High speed micro USB & NMEA0183	No	2	80,469	160,938				
	DJI mlni 4 pro mapping drone - (4K /60 FPS HDR RESOLUTION) 1 NO	No	1	250,000	250,000				
	Procure 1 no Real time Kinematic	No	1	1,600,000					1,600,000
	<b>Sub Total</b>				<b>2,372,438</b>	<b>-</b>	<b>300,000</b>	<b>-</b>	<b>1,600,000</b>
<b>G. Water Testing equipment</b>	Photometer -(Lovibond -MD 610 photometer) - 1 NO	No	1	300,000	300,000				
	Jar test - (Witeg-Jar tester JT-M6C 6Peddles 20-300 RPM) -1 NO	No	1	522,000	522,000				
	Portable (ph ectds ) meter (Lovibond -MD 610 ph Meter) - 1 No	No	1	90,000	90,000				
	Collilet 18 test - kiT IDEXX Quanti-tray /2000 97 Wells - 1 NO	No	1	630,000	630,000				
	2 No Chlorine pump - SEKO AML 200- max flow 5l/hr @ 8 bar,max stroke rate 160/min,	No	2	160,000	320,000				
	8 no borehole chlorine/polymer dozers SEKO AML 200- max flow 5l/hr @ 8 bar,max stroke	No	8	50,000	400,000				
	4 no gravity dozers - FLOW RATE -30-1200L/H With in built all chemical resistant materials.	No	4	250,000	1,000,000				
	Automate Flocculant and disinfectant dosing system -(Automated flocculants dosage system	Lot	1	2,000,000		2,000,000			
	Acquire automatic colony counter)-Scan 1200- HD automatic colony counter - 1 NO	No	1	200,000		200,000			
	Turbidity meter - (Surface scatter 7 sc (SS7)high range turbidimeter Range (0-9999 N.T.U) -	No	1	2,000,000			2,000,000		
	Automate floc/ residual dosing system -(Automated flocculants dosage system dosing	No	1	2,000,000				2,000,000	
				<b>3,262,000</b>	<b>2,200,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>-</b>
<b>I. Low Income Areas</b>	Social connections to LIA	No	108	13,000	468,000	468,000	468,000		
	Construction of fabricated water kiosk (At Majengo and Likii A)	No	2	600,000			600,000	600,000	
	<b>Sub Total</b>				<b>468,000</b>	<b>468,000</b>	<b>1,068,000</b>	<b>600,000</b>	<b>-</b>
<b>J. Office Furniture</b>	Procurement of office Desks	No	15	20,000	300,000				
	Procurement of Office Seats	No	10	10,000	100,000				
	<b>Sub Total</b>				<b>400,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>K. Sewer Improvement</b>	Annual Desludging of wastewater ponds	No	2	1,500,000		1,500,000	1,500,000		
	Shika Adabu sewer extension 3.1km	No	1	6,123,630			6,123,630		
	Construction of wetland at the main wastewater treatment plant	No	1	1,842,920			1,842,920		
	Ruai/ Kilimo sewer project 7km - phase 1	No	1	30,892,800				30,892,800	
	Lower Muthaiga sewer project	No	1	7,092,807					7,092,807
	Ruai/ Kilimo sewer project 7km - phase 1	No	1	10,000,000					10,000,000
	<b>Sub Total</b>				<b>-</b>	<b>1,500,000</b>	<b>9,466,550</b>	<b>30,892,800</b>	<b>17,092,807</b>
<b>TOTAL</b>					<b>34,846,885</b>	<b>40,219,817</b>	<b>46,743,480</b>	<b>55,360,880</b>	<b>45,999,057</b>