

ANNEX 1
 DETAILS OF PUBLIC CONSULTATION FOR NITHI WATER AND SANITATION COMPANY LTD
 (FOR THE PERIOD 2023/2024 – 2027/2028)

1.0 Cost and Revenue Structure for the Tariff Period

	Ksh.	Ksh.
Cost Subject to Annual Indexation		
Operations and Maintenance costs	132,053,187	132,053,187
Fixed Costs		
Average Annual Investment Cost	37,119,861	
Debt	-	
Sub Total- Fixed Costs		37,119,861
Total Average Annual Cost		167,173,047
Projected Average Annual revenue		171,314,360
Average Annual Cost Coverage		101%

2.0 Proposed Change in Water Tariff Structure for the Period.

Consumer Categories	Consumption Block (m3)	Current Tariff (Kshs/M ³)	Consumption (m3)	Proposed Tariff (Kshs/M ³)
Domestic/Residential	0-6	200(Flat Rate)	1-6	100
	7-20.	50	7-20.	120
	21-50	65	21-50	125
	51-100	80	51-100	130
	100-300	100	101-300	135
	>300	130	>300	140
Multi-Dwelling Units	Flat Rate	N/A	Flat Rate	120
Commercial/Industrial	0-6	200(Flat Rate)		
	7-20.	50	1-50	125
	21-50	65	51-100	130
	51-100	80	101-300	135
	101-300	100	>300	140
	>300	130		
Government/Institutions	0-6	200(Flat Rate)	1-50	125
	7-20	50	51-100	130
	21-50	65	100-300	135
	51-100	80	>300	140
	101-300	100		
	>300	130		
Public Schools	0-600	40	1-600	120
	601-1200	50	601-1200	135
	>1200m3	60	>1200m3	140
Unique Consumer Categories	Water Kiosks	35	Per M3	70
	Bulk Water Supply	20	Per M3	120

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

3.0 Sewerage Tariff Structure for the period 2024/2025 to 2027/2028

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. 350 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 regulations of the Water Services Regulatory Board (WASREB). 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

These shall be charged as per the approved miscellaneous charges approved by WASREB.

6.0 Service Delivery Conditions attached to the Tariff.

Target	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028
Water Coverage (%)	49%	51%	53%	55%	57%	59%
Water quality standards (%)	100% Compliance with Standards					
Personnel Expenditure as % of	38%	37%	35%	35%	35%	34%
Non-Revenue Water	65%	63%	62%	61%	60%	59%
Hours of Supply (Hrs.)	16	16	17	17	18	18
Staff per 1000 connections	6	5	5	5	5	5
Maintenance Expenditure as	21%	19%	17%	17%	17%	18%
Metering ratio (%)	92%	92%	100%	100%	100%	100%
Collection Efficiency (%)	93%	93%	95%	95%	95%	95%
Resale at Kiosk	Kshs. 5.00 per 20l Jerry Can					

5.1 Other Conditions

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

- Annual budgets:** The utility shall adhere to the budgetary levels set in the tariff.
- Metering:** NIWASCO shall progressively enhance the metering ratio to attain 100% as per condition (5.0) above
- Surpluses:** the surpluses realised during the tariff period shall be used to implement priority service delivery capital projects approved by WASREB.
- Catchment Protection:** The utility shall undertake measures to conserve/ protect the catchment areas of their water source as part of Corporate Social Responsibility.
- Reporting:** The utility shall submit quarterly performance reports to WASREB in the prescribed format.
- Investments:** The utility shall undertake the investments as follows: -

REHABILITATIONS	AREA	Pipe size	Distance (km)	Unit cost (Kshs)	Estimated Cost	2024-25	2025-26	2026-27	2027-28	Kibung'ya Kakimiki	Dn 25mm	15	6,000.00	90,000.00	9,000	27,000	27,000	27,000.00
										Dn 20mm	18	4,500.00	81,000.00	8,100	24,300	24,300	24,300.00	
										Dn 15mm	240	4,000.00	960,000.00	96,000	288,000	288,000	288,000.00	
										Dn 25mm	15	6,000.00	90,000.00	9,000	27,000	27,000	27,000.00	
										Dn 20mm	18	4,500.00	81,000.00	8,100	24,300	24,300	24,300.00	
										Dn 15mm	240	4,000.00	960,000.00	96,000	288,000	288,000	288,000.00	
										Sub-Total			8,055,000.00	805,500.00	2,416,500.00	2,416,500.00	2,416,500.00	
										Chuka - Karirigani Scheme	Dn 110/90mm	1.8	1,920,045.00	3,456,081.00	1,382,432.4	1,036,824.3	1,036,824.3	
										Chogoria Scheme	Dn 160mm	1	2,087,500.00	2,087,500.00	835,000.0	626,250.0	626,250.0	
										Mutonga - Gituma Scheme	Dn 90mm	0.5	1,659,685.00	829,842.50	1,057,768.3	793,326.2	793,326.2	
Kibung'ya Kakimiki Scheme	Dn 160mm	1.2	4,295,813.00	5,154,975.60	331,937.0	248,952.8	248,952.8											
Kathwana Scheme	Dn 200mm	0.8	5,691,407.00	4,553,125.60	1,821,250.2	1,365,937.7	1,365,937.7											
Sub-Total			25,649,568.70	10,259,827.48	7,694,870.61	7,694,870.61												
PIPELINE EXTENSIONS	SCHEME	Pipe size	Distance (km)	Unit cost/KM	Estimated Cost	2024-25	2025-26	2026-27	2027-28	Chuka - Karirigani	Dn 110mm -50mm	8	1,227,422.00	9,819,376.00	981,938	2,945,813	2,945,813	2,945,813
										Chogoria Scheme	Dn 110mm-50mm	8	1,227,422.00	9,819,376.00	981,938	2,945,813	2,945,813	2,945,813
										Mutonga -Gituma Scheme	Dn 63mm-25mm	12	960,557.00	11,526,684.00	981,938	2,945,813	2,945,813	2,945,813
										Kibung'ya Kakimiki Scheme	Dn 63mm-25mm	16	1,091,404.00	17,462,464.00	1,746,246	2,619,370	5,238,739	6,111,862
										Kathwana	Dn 63mm-25mm	10	1,028,122.00	10,281,220.00	1,028,122	3,084,366	3,084,366	3,084,366
										Sub-Total			58,909,120.00	5,890,912.00	13,900,698.00	18,825,404.40	18,545,859.20	

	Large format printer/photocopier	(Black & color)Print,scan,copy,(A1,A3,A4 papers)	1	550,000.00	550,000.00	-	4,120,000.00	2,780,000.00	550,000.00	4,655,000.00
				Sub-Total	15,760,000.00		4,120,000.00	2,780,000.00	3,205,000.00	4,655,000.00
Non-Revenue Water										
	Item	Specifications	No.	Unit Cost		2024-25	2025-26	2026-27	2027-28	
	Sounding rods		Set	50,000.00	200,000.00	100,000.00	50,000.00		50,000.00	
	Pressure logger	Nominal pressure 20 bars, Temp indication 0.1°C, Reference Temp +23°C,Temp effect (1°C): ± 0.005%, operating Temp -10/+70°C; Programmable Resolution 1,2,5 & 10,baud rate 38400,19200 & 9600,Peak Function 125 readings/sec,storage 30,000 points incl of Temp,Power supply -Batteries -alkaline batteries size AAA, 1.5 V(Non-rechargeable), auto power-off function to conserve power	No.	250,000.00	500,000.00	500,000.00				
	Leak noise correlator		No.	280,000.00	560,000.00	-	280,000.00		280,000.00	
	Portable meter testing kit	Accuracy within ± 0.5% Or readings, flow rate 10L/hr to 5 m3/hr,sensitivity < 0.003 m/s at any flow rate including zero	Set	180,000.00	720,000.00	360,000.00	180,000.00		180,000.00	
	Pressure reducing valves		Set	265,000.00	2,650,000.00	1,060,000.00	1,060,000.00		530,000.00	
	Pipe locator		Set	300,000.00	300,000.00	-	-		-	

Digital thickness Meter	Display: 4 digits, 10mm LCD; Measurement range 1-200mm, Resolution 0.1mm, Accuracy ±0.5%, Sound velocity 500-9000 m/s, Power supply -locally available batteries or AAA batteries; operating condition Temp 0 -50 degree Celsius, Humidity < 80%, calibration stds 5 steps- 1mm, 5mm, 10mm, 15mm and 20mm	No.	280,000.00	280,000.00	280,000.00	280,000.00			
Arc GIS Software and mapping	Arc GIS Pro 2.9	Item	350,000.00	350,000.00	350,000.00	350,000.00			
Fixed Meter testing Bench	Semi-automatic Dn 15 - 25 mm	1	-	3,800,000.00	3,800,000.00				
Bulk Ultrasonic Flow meter Dn 250mm	Q3/Q1 R250	1	240,000.00	720,000.00	480,000.00			240,000.00	
Bulk Ultrasonic Flow meter Dn 200mm	Q3/Q1 R250	1	240,000.00	480,000.00	240,000.00				
Bulk Ultrasonic Flow meter Dn 150mm	Q3/Q1 R250	1	180,000.00	1,080,000.00	540,000.00				180,000.00
Customer cold water meters (for replacement)	Q3/Q1 R250	1000	4,000.00	4,000,000.00	2,000,000.00				1,000,000.00
			Sub-Total	15,640,000.00	9,710,000.00	3,170,000.00			2,460,000.00
			Annual Total	33,056,989.48	36,807,818.61	37,931,525.01			40,683,109.20

	Kibung'a scheme treatment works backwash system	Centrifugal pump F 50/160A, Q=1100L/Min, 7.5 Kw	0	120,000.00	-	240,000.00	240,000.00	240,000.00	-	240,000.00	240,000.00	-	-
				Sub-Total		240,000.00		240,000.00		240,000.00			
Acquisition of movable assets	Item	Specifications	No.	Unit Cost			2024-25	2025-26	2026-27	2027-28			
	Motor vehicle	Single Cab, Engine type 2.8L, 2.8 cc, 4WD, 6-speed, Turbocharge	1	6,000,000.00	6,000,000.00	-	-	-	-	6,000,000.00	816,000.00	-	816,000.00
				Sub-Total		6,000,000.00		816,000.00		816,000.00			6,816,000.00
ICT and Related Assets	Item	Specifications	No.	Unit Cost			2024-25	2025-26	2026-27	2027-28			
	Desktop Computers	Operating System-Windows 10, Memory 8gb, HDD 1TB	10	80,000.00	800,000.00	240,000.00	240,000.00	160,000.00	160,000.00	160,000.00			160,000.00
	Printers	Desktop printer, 3 in 1 (print, scan, copy), dye ink (black and color)	10	35,000.00	350,000.00	105,000.00	105,000.00	70,000.00	70,000.00	70,000.00			70,000.00
		Finance/Accounting	1	2,000,000.00	2,000,000.00	-	-	-	-	-			-
		Human Resource	1	2,000,000.00	2,000,000.00	1,000,000.00	1,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00			2,000,000.00
		Technical	1	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00			2,000,000.00
		GIS	1	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00			2,000,000.00
		Supply chain	1	2,000,000.00	2,000,000.00								
		Self-service portal	1	2,000,000.00	2,000,000.00								
	TV	Smart UHD 4K LED TV 43"	1	70,000.00	70,000.00	70,000.00							70,000.00
	Internet connection (DTF and outside schemes)	wifi connection	1	500,000.00	500,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00			125,000.00
	Laptops	Windows 10, Core i7, 8GB RAM, 1TB HDD, bag	5	120,000.00	600,000.00	240,000.00	120,000.00	120,000.00	120,000.00	120,000.00			120,000.00
	CCTV for all schemes (DTF, treatment facilities and outside schemes)	8no 360degree CCTV camera kit, screen, DVR with 1 TB harddisk, HDMI, 10amp power supply unit, mouse, installation cable,	Set	150,000.00	750,000.00	300,000.00	150,000.00	150,000.00	150,000.00	150,000.00			150,000.00
	Office Telephones	GSM wireless landline desk phone	14	10,000.00	140,000.00	40,000.00	40,000.00	30,000.00	30,000.00	30,000.00			30,000.00

Item/ Service	Charge (Ksh.)
Water Deposit	
Category of consumer	
Domestic	2500
Retail shops less than 10m ³	3000
Retail shops more than 10m ³	3,500
Bar, and restaurants less than 15 m ³	4000
Bar, restaurants more than 15 m ³	6,000
Hotel class "A" and "B" less than 150 m ³	12,000
Hotel class "A" and "B" more than 150 m ³	15000
Hotel class "C" and "D" less than 150 m ³	18000
Hotel class "C" and "D" more than 150 m ³	20,000
Hospitals more than 150 m ³	20,000
Health centres less than 150 m ³	12,000
Schools and other institutions more than 200 m ³	20,000
Schools less than 200 m ³	10,000
Minor construction sites of more than 200 m ³	15,000
Major construction sites more than 300 m ³	50,000
Light industries less than 200 m ³	30,000
Medium industrial between 200 m ³ and 300 m ³	50,000
Heavy industries of more than 300 m ³	100,000
Water Kiosks	5,000
Customers with only sewer connection are to be charged a deposit equivalent to a water connection	
Other Charges	
Service	
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	3,500, 7,000 respectively per tanker within the WSP area for all consumers
Sale of water Per M ³ at bowsing point (own tanker)	Ksh .120
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)	Ksh.7,500 with Chuka and Chogoria Schemes. To charge an additional Ksh.1,500 for every 10km covered beyond the specified areas.
Private Exhausters (Dumping into the company's sewer system)	15,000 per Truck per month

Item/ Service	Charge (Ksh.)
Penalties	
Illegal water connection, -Commercial, Industry, Construction (Fraud)	100,000 plus estimated consumption during the period of illegality
Illegal water connection, (Fraud) – Domestic	50,000 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)	10,000
Surcharge for direct suction of water from the supply line using a pump	10,000