

Understanding Water Tariffs



Karabo with consumption of 35 kiloliters of water

Kiloliters per connection per month	2019/2020 tariff (R/k) Price per kilolitre, excluding VAT	Consumption of 35 kiloliters of water	Calculation cost per rand	Kiloliters per connection per month	2020/2021 tariff (R/k) Price per kilolitre, excluding VAT	Consumption of 35 kiloliters of water	Calculation cost per rand	Percentage Increase
0 kl to 6 kl	R 9.10	6	R 54.60	0 kl to 6 kl	-	6	R 0.00	4%
From 6 kl to 10 kl	R 9.66	4	R 38.64	From 6 kl to 10 kl	R 18.99	4	R 75.96	4%
From 10 kl to 15 kl	R 16.49	5	R 82.45	From 10 kl to 15 kl	R 19.82	5	R 99.10	4%
From 15 kl to 20 kl	R 23.99	5	R 119.95	From 15 kl to 20 kl	R 27.79	5	R 138.99	4%
From 20 kl to 30 kl	R 32.95	10	R 0	From 20 kl to 30 kl	R 38.40	10	R 384.00	4%
From 30 kl to 40 kl	R 36.51	5	R 0	From 30 kl to 40 kl	R 42.00	5	R 210.00	4%
From 40 kl to 50 kl	R 46.62	-	R 0	From 40 kl to 50 kl	R 52.99	-	R 0	4%
More than 50 kl	R 49.66	-	R 0	More than 50 kl	R 56.79	-	R 0	4%
Total cost on kiloliters			R 807.69	Total cost on kiloliters			R 908.05	
Water Demand Management			R 24.88	Water Demand Management	R 24.88		R 26.52	
Sub - Total Cost			R 832.57	Sub - Total Cost			R 934.57	
VAT	@ 15%		R 124.89	VAT	@ 15%		R 140.19	
Total Cost			R 957.45	Total Cost			R 1 074.76	

Calculations of customer's consumption for the financial year 2019 - 2020

Karabo's monthly water consumption is 35 kl. Let's calculate her monthly water costs, including VAT.

1. To calculate Karabo's total water costs, we break up his usage into different tariff categories:

- In the 0 kl - 6 kl category, he used 6 kl of water
- In the 6 kl - 10 kl category, he used 4 kl of water
- In the 10 kl - 15 kl category, he used 5 kl of water
- In the 15 kl - 20 kl category, he used 5 kl of water
- In the 20 kl - 30 kl category, he used 10 kl of water
- In the 30 kl - 40 kl category, he used 5 kl of water
- In the 40 kl - 50 kl category, he used 0 kl of water
- More than 50 kl category, he used 0 kl of water

Now we calculate how much the number of kiloliters used in this category each is used:

- 6 kl x R 9.10 = R 54.60
- 4 kl x R 9.66 = R 38.64
- 5 kl x R 16.49 = R 82.45
- 5 kl x R 23.99 = R 119.95
- 10 kl x R 32.95 = R 329.50
- 5 kl x R 36.51 = R 182.55

Next we add these four subtotals together:

$$R 54.60 + R 38.64 + R 82.45 + R 119.95 + R 329.50 + R 182.55 = R 807.69$$

So her water usage for the month would cost R 807.69 plus Demand Management Levy of R 24.88

$$\text{Total Cost for Karabo in 2019/2020} = R 807.69 + R 24.88 + R 124.89 =$$

$$R 957.45 \text{ which is equal to } R 807.69 + R 24.88 + \text{VAT@ } 15\% \text{ (R 124.89)}$$

Calculations of customer's consumption for the financial year 2020 - 2021

Karabo's monthly water consumption is 20 kl. Let's calculate her monthly water costs, including VAT.

1. To calculate Karabo's total water costs, we break up his usage into different tariff categories:

- In the 0 kl - 6 kl category, he used 6 kl of water
- In the 6 kl - 10 kl category, he used 4 kl of water
- In the 10 kl - 15 kl category, he used 5 kl of water
- In the 15 kl - 20 kl category, he used 5 kl of water
- In the 20 kl - 30 kl category, he used 10 kl of water
- In the 30 kl - 40 kl category, he used 5 kl of water
- In the 40 kl - 50 kl category, he used 0 kl of water
- More than 50 kl category, he used 0 kl of water

Now we calculate how much the number of kiloliters used in this category each is used:

- 6 kl x R 9.10 = R 54.60
- 4 kl x R 9.66 = R 38.64
- 5 kl x R 19.82 = R 82.45
- 5 kl x R 27.79 = R 138.95
- 10 kl x R 38.40 = R 329.50
- 5 kl x R 42.00 = R 210.00

Next we add these four subtotals together:

$$R 0.00 + R 75.96 + R 99.10 + R 138.99 + R 384.00 + R 210.00 = R 314.01$$

So her water usage for the month would cost R 908.05 plus Demand Management Levy of R 26.52

$$\text{Total Cost for Karabo in 2020/2021} = R 908.05 + R 26.52 + R 140.19 =$$

$$R 1 074.76 \text{ which is equal to } R 908.05 + R 26.52 + \text{VAT@ } 15\% \text{ (R 140.19)}$$

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