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NATIONAL COUNCIL OF PROVINCES

FOR WRITTEN REPLY

QUESTION NO 215

DATE OF PUBLICATION IN INTERNAL QUESTION PAPER: 31 MARCH 2023 (INTERNAL QUESTION PAPER NO. 9)

215. Mr M A P De Bruyn (Free State: FF Plus) to ask the Minister of Water and Sanitation:

- (1) Whether, with reference to his reply to Question 2 on 24 March 2023, he will provide the Rand value of water losses as indicated; if not, what is the position in this regard; if so, what are the relevant details;
- (2) (a) what actions are being taken to (i) manage such water losses and (ii) rectify the infrastructure and (b) what are the timelines involved in this regard?

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MINISTER OF WATER AND SANITATION

(1) The rand value of water losses in the Mangaung Metropolitan Municipality are indicated in the table below:

Town/ area of supply	Water losses per annum	Rand Value of water losses
Bloemfontein	98 520	R 1 191 106.80
Botshabelo	33 355	R 403 261.95
Thaba Nchu	5 824	R 70 412.16
Wepener	267	R 3 228.03
Dewetsdorp	1 146	R 13 855.14
Vanstadensrus	163	R 1 970.67
Soutpan	319	R 3 856.71

- (2)(a)(i) Mangaung is taking action to (i) manage water losses as detailed below:
 - Pressure and Network Zone Management Audit and PRV commissioning where the largest concentration of burst pipes occurs and other areas
 - Replacement of water meters and metering of unmetered sites
 - Supply, delivery, and installation of prepaid water meters for Mangaung Metropolitan Municipality to increase revenue collection
 - Engineering Services is continuously working to have all installed meters registered on the billing system
 - Pipe replacement, Pressure and Network Zone Management projects are currently being implemented
 - Engineering Services and Finance Directorate are continuously addressing challenges emanating from meters that are not read
 - (ii) Remedial actions taken by the Mangaung to repair the infrastructure and curb water losses include the following:
 - The Refurbishment of Water Supply System project to replace dilapidated pipes in the Mangaung Municipality is being implemented to curb water losses.
 - Review of Water Conservation and Water Demand/Management Strategy and identification of seventeen (17) strategies to be implemented over a 10 year period.
 - (b) The municipality has indicated that the estimated budget required to implement the seventeen (17) strategies have been identified for the reduction of Non-Revenue Water

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(b) The budget required to implement the seventeen (17) strategies for the reduction of Non-Revenue Water (NRW) is estimated at R 3.19 billion. However, the annual Urban Settlement Development Grant (USDG) allocated does not meet the funding requirements. Therefore, implementation of the plan will be done over a period of 10 years as indicated in Annexure A.

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DRAFT REPLY: RECOMMENDED/ NOT RECOMMENDED/ ANTENDED

DR SEAN PHILLIPS DIRECTOR GENERAL DATE: US /64/23

DRAFT REPLY: APPROVED/ NOT APPROVED/ AMENDED

MR'SENZO MCHUNU, MP

MINISTER OF WATER AND SANITATION DATE: 28 04/23

Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Vear 3	Year 4	Year 5	Year 6	Vear 7	Year 8	Year 9	Year 10	Total Estimated Project Cost (Excl. VAT)	Predecessor	Annual Assignment	Annual Water Balance Parameter Impact
Strategy RL1: Pressure and Network Zone Management		R11,276,320	R11,276,320	R11,276,320	R1,650,000	R1,650,000	R1,650,000	R1,650,000	R1,650,000	R1,650,000	R1,650,000				
1 RL1.1: Pressure and Network Zone Management for a Period of Three Years (Initial Installation and Commissioning)	3	R 11,276,320 R	11,276,320 R	11,276,320			Vers d					R33,828,960		R 11,276,320	
2 RLL.2: Pressure and Network Zone Management for a Period of Three Years (Annual maintenance and servicing)	3			R	1,650,000 N	1,650,000 #	1,650,000					R4,950,000	1	1 R 1,650,000	-2,069,55
3 RL1.3: Pressure and Network Zone Management for a Period of Three Years (Annual maintenance and servicing)	2		-				R	1,650,000 R	1,650,000			R3,300,000	2	R 1,650,000	-2,069,55
4 RL1.4: Pressure and Network Zone Management for a Period of Three Years (Annual maintenance and servicing)	2								R	1,650,000 R	1,650,000	R3,300,000	3	R 1,650,000	-2,069,55

Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Vear 9	Year 1	(Exd. VAT)	Predecessor	Annual Assignment	Annual Water Balance Parameter Impact
Strategy RL2: Pro-Active Leak Detection and Repair		R8,470,000	R8,470,000	R8,470,000	R8,470,000	R8,470,000	R8,470,000	R8,470,000	R8,470,000	R8,470,000	R8,470,000				
5 RL2.1: Leak Detection and Repair for a Period of Three Years (Internal Operational Capacity Review, Procurement of Tools and Equipment and Procurement of Contractor for Reactive Leak Repairs)	3	R 8,479,000 R	3,470,000 R	8,470,000								R25,410,000	None	R 8,470,000	-619,8
6 RL2.2: Pro-Active Leak Detection and Repair Programme for a Period of Three Years (Systemised Approach Proactive Leak Detection and Repair)	3				1,470,000 8	8,470,000 R	8,470,000					R25,410,000	E, A	R 8,470,000	-619,8
7 RL2.3: Pro-Active Leak Detection and Repair Programme for a Period of Two Years (Systemised Approach Proactive Leak Detection and Repair)	2						8	8,470,000 R	8,470,000			R16,940,000	6	R 8,470,000	-619,8
8 RL2.4: Pro-Active Leak Detection and Repair Programme for a Period of Two Years (Systemised Approach Proactive Leak Detection and Repair)	2									8,470,000 R	1,470,000	R16,940,000	7	R 8,470,000	-619,87

	Defined Projects	Estimated Project Duration (Years)	Vear 1	Year 2	Year 3	Year 4	Years	Year 6	Year 7	Year 8	Year 9	Vear 10	(Exd. VAT)	Predecessor	Annual Assignment	Annual Water Balance Parameter Impact
3	Strategy RL3: Maselspoort Upgrade Phase 1: Maselspoort Rising Main River Crossing and		R35,200,000	RO	RO	RO	RO	RO	RO	RO	RO	R	0 R35,200,000	-		
	RL3.1: Maselspoort Upgrade Phase 1: Maselspoort Rising Main River Crossing and	1	35,200,000										R35,200,000	None	R 35,200,000	-1,460,000
	Refurbishment of Pipeline															

	Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total Estimated Project Cost (Exd. VAT)	Predecessor	Annual Assignment	Annual Water Balance Parameter Impact
4	Strategy RL4: Pipe Replacement Project		R4,395,460	R4,395,460	R6,149,804	R4,395,460	R4,395,460	R4,395,460	R4,395,460	R4,395,460	R4,395,460	R4,395,460		-		
	10 R.L.4.1: Identification and Prioritisation of High-Risk Pipelines Based on Operational Institutional Knowledge and Field Measurements. Replacement of High Risk Pipelines in Bloemfontein (8km)	2	4,395,460 R	4,395,460									R8,790,919		R 4,395,46	
	11 RL4.2: Replacement of High Risk Pipelines in Bloemfontein (11km)	2			4,395,460 R	4,395,460							R8,790,919	10	R 4,395,46	-25,682
1	12 RL4.3: Replacement of High Risk Pipelines in Thaba Nchu and Botshabelo (2.3km)	1		8	1,754,344								R1,754,344	1:	1 R 1,754,34	-5,596
1	13 RL4.4: Replacement of High Risk Pipelines in Bloemfontein (11km)	2					R 4,395,460 R	4,395,460					R8,790,919	17	2 R 4,395,460	-25,682
1	14 RL4.5: Replacement of High Risk Pipelines in Bloemfontein (11km)	2							4,395,460 R	4,395,460			R8,790,919	13	R 4,395,460	-25,682
1	15 RL4.6: Replacement of High Risk Pipelines in Bloemfontein (11km)	2					-			8	4,395,460 K	4,395,460	R8,790,919	14	R 4,395,460	-25,682

Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Vear 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total Estimated Project Cost (Excl. VAT)	Predecessor	Annual Assignment	Annual Water Balance Parameter Impact
Strategy RL5: Leak Repairs: Plumbing Leaks		RO	RO	RO	R14,223,859	R14,223,859	R14,223,859	R14,057,192	R14,057,192	R14,057,192	R14,057,192	R98,900,344			
16 RL5.1: Identification and Prioritisation of Formerly Disadvantaged Areas According to Income Types for Routine Leak Repair Programmes Targeted Routine or Domestic Leak Repairs Programme- Bloemfontein	3			R	4,857,397 R	4,852,397 (4,852,397					R14,557,192		1 R 4,852,39	
17 RL5.2: Targeted Routine or Domestic Leak Repairs Programme- Botshabelo	3			15	4,585,731 R	4,685,731 R	4,685,731					R14,057,192		R 4,685,73	-12,3
18 RL5.3: Targeted Routine or Domestic Leak Repairs Programme- Thaba Nchu	3			R	4,685,731 R	4,685,731 R	4,685,731					R14,057,192		R 4,685,73	-12,3
19 RL5.4: Targeted Routine or Domestic Leak Repairs Programme- Bloemfontein	2						K	4,685,731 R	4,685,731			R9,371,461	16, 17, 18	R 4,685,73	-12,3
20 RL5.5: Targeted Routine or Domestic Leak Repairs Programme- Botshabelo, Thaba Nchu	2						R	4,685,731 R	4,685,731			R9,371,461	16, 17, 18	R 4,685,73	-12,
21 RL5.6: Targeted Routine or Domestic Leak Repairs Programme- Dewetsdorp, Wepener, Vanstadensrus and Soutpan	2	any may are allowed	-				R	4,685,731 N	4,685,731			R9,371,461		R 4,685,731	
22 RL5.7: Targeted Routine or Domestic Leak Repairs Programme- Bloemfontein	2								R	4,685,731 R	4,685,731	R9,371,461	19, 20, 21	R 4,685,73	-12,3
23 RLS.8: Targeted Routine or Domestic Leak Repairs Programme- Botshabelo, Thaba Nchu	2								£	4,685,731 R	4,685,731	R9,371,461	19, 20, 21	R 4,685,733	-12,3
24 RLS.9: Targeted Routine or Domestic Leak Repairs Programme- Dewetsdorp, Wepener, Vanstadensrus and Soutpan	2								R	4,685,731 R	4,685,731	R9,371,461	19, 20, 21	R 4,685,731	-12,3

Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	(Excl. VAT)	Predecessor	Annual Assignment	Annual Water Balanc Parameter Impact
Strategy RL6: Valve Audit and Valve Replacement and Refurbishment Programme		R5,044,067	R5,044,067	R11,200,112	R15,100,754	R10,970,729	R1,550,441	RO	RD	RO	R0	,,			
25 Rt.6.1: Bloemfontein: Phase 1- Valve Audit, Condition Assessment and Update of Map Books for Operational And Maintenance Purposes. Preparation of detailed valve replacement and refurbishment programme based on outcome of valve audit.	2		5,044,067									R10,088,133		R 5,044,06	
26 RL6.2: Botshabelo: Phase 1- Valve Audit, Condition Assessment and Update of Map Books for Operational And Maintenance Purposes. Preparation of detailed valve replacement and refurbishment programme based on outcome of valve audit.	1		*	2,875,146								R3,875,146		R 3,875,14	
RI.6.3: Thaba Nchu, Dewetsdorp, Wepener, Vanstadensrus and Soutpan: Phase 1- Valve Audit, Condition Assessment and Update of Map Books for Operational And Maintenance Purposes. Preparation of detailed valve replacement and refurbishment programme based on outcome of valve audit.	1				5,680,466				= -			R5,680,466		R 5,680,46	
28 R1.6.4: Bloemfontein: Phase 2- Valve Replacement and Valve Refurbishment Programme (Dependent on outcome of valve audit)	3		2	7,324,966 R	7,324,966 H	7,324,966						R21,974,898		R 7,324,96	
29 RL6.5: Botshabelo: Phase 2- Valve Replacement and Valve Refurbishment Programme (Dependent on outcome of valve audit)	2			16.	2,095,522 #	2,095,322						R4,190,644		R 2,095,322	
30 RL6.6: Thaba Nchu, Dewetsdorp, Wepener, Vanstadensrus and Soutpan: Phase 2- Valve Replacement and Valve Refurbishment Programme (Dependent on outcome of valve	2				R	1,550,441 #	1,550,441					R3,100,882	27	R 1,550,44	1

	Defined Projects	Estimated Project Duration (Years)	Vear 1	Year 2	Vear 3	Year 4	Vears	Year 6	Year 7	Year 8	Year 9	Year 10	Total Estimated Project Cost (Excl. VAT)	Predecessor		Annual Water Balance Parameter Impact
7	Strategy AL1: Standpipe Audit and Disconnection of Standpipes in Areas with Formal		RO	RO	RO	R475,893	RO	RO	RO	RO	RO		RO R475,893			
	32 AL1.1: Standpipe Audit and Disconnection of Standpipes in Areas with Formal Reticulation	1			R	475,893							R475,893	None	R 475,893	

Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Year 3	Year 4	Y 88 Y	Year 6	Year 7	Year 8	Year 9	Year 10	Total Estimated Project Cost (Excl. VAT)	Predecessor	Annual Assignment	Annual Water Balanc Parameter Impact
Strategy AL2: Replacement of Water Meters		R50,450,791	R70,557,579	R70,557,579	R20,106,788	R20,106,788	R40, 102, 597	R19,995,808	R28,010,267	R23,861,858	R23,861,858	R253,085,688	74		
33 AL2.1: Meter Replacement Programme in Bloemfontein for Phase 1 and 2 (13 309 meters)	2	50,450,791 R	50,450,791 R	50,450,791	A SECURITY OF THE PERSON IN							R100,901,582	None	R 50,450,791	
34 AL2.2: Meter Replacement Programme in Botshabelo for Phase 1-4 (24 335 meters)	3	R	20,106,788 R	20,106,788 R	20,105,788 R	20,106,788 R	20,106,788					R60,320,364	26	R 20,106,788	
35 AL2.3: Meter Replacement Programme in Thaba Nchu for Phase 1-4 (6 270 meters)	2				The second second	R	19,995,808 R	19,995,808				R39,991,617	27	R 19,995,808	
36 AL2.4: Meter Replacement Programme in Bloemfontein for Phase 3 and 4 (13 716 meters)	2						The State of the S	2	23,861,858 R	23,861,858 R	23,861,858	R47,723,715	28	R 23,861,858	
37 AL2.5: Meter Replacement Programme in Dewetsdorp, Wepener and Vanstadensrus for Phase 1-4 (550 meters)	1							R	4,148,409			R4,148,409	28	R 4,148,409	

Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Vear 10	Total Estimated Project Cost (Excl. VAT)	Predecessor	Annual Assignment	Annual Water Balanc Parameter Impact
Strategy AL3: Billed Metered Consumption Audit, Digitisation and Automisation		R1,815,000	R1,815,000	R1,815,000	R605,000	R605,000	R605,000	R605,000	R605,000	R605,000	R605,000	R9,680,000			
38 AL3.1: Billed Metered Consumption Audit, Implementation of Digitisation and Automisation of Billing System for a period of three (3) years	3	1,815,000 R	1,815,000 R	1,815,000								R5,445,000		R 1,815,000	
39 Al.3.2: Annual maintenance and continued improvement of billing system for a period of three (3) years	3			R	\$05,000 A	605,000 8	505,000					R1,815,000	38	R 605,000	
40 AL3.3: Annual maintenance and continued improvement of billing system for a period of three (2) years	2						R	605,000 R	605,000			R1,210,000			
41 AL3.4: Annual maintenance and continued improvement of billing system for a period of three (2) years	2								R	605,000 R	605,000	R1,210,000	40	R 605,000	

	Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total Estimated Project Cost (Excl. VAT)	Predecessor	Annual Assignment	Annual Water Balanc Parameter Impact
	Strategy SIV1: SCADA & Telemetry (Including Installation of Bulk Check Meters)	1.00.07	R54,014,400	R605,000	R605,000	R605,000	R605,000	R605,000	R605,000	R605,000	R605,000	R605,000	R59,459,400)		
	SIV1.1: SCADA & Telemetry including installation of bulk check meters	1	R 54,014,400										R54,014,400	None	R 54,014,40	
1 4	SIV1.2: Operation and Maintenance of SCADA & Telemetry for a Period of Three (3)	3	R	505,000 W	605,000 R	605,000							R1,815,000	42	R 605,00	
44	Years SIV1.3: Operation and Maintenance of SCADA & Telemetry for a Period of Three (3) Years	3					R 605,000 R	605,000 R	605,000				R1,815,000	43	R 605,00	
45	Years Note: The second of the	3								605,000	R 605,000 R	605,000	R1,815,000	44	R 605,00	

Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Vest	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Vear 10	Total Estimated Project Cost (Excl. VAT)	Predecessor		Annual Water Balan Parameter Impact
Strategy SIV2: Maselspoort Treatment Upgrades and Refurbishment	771	R90,434,783	R261,739,130	R474,782,609	R167,826,087	RO	RO	R0	RO	RO	RO	R994,782,609			
46 SIV2.1: Maselspoort Treatment Upgrades: Phase 1 (45M& to 130M&/day), including filter wash water recovery	2	90,434,783 R	38,260,870									R128,695,652	None	R 64,347,826	
47 SIV2.2: Maselspoort Treatment Upgrades: Phase 2 (60Me/day) - Advance process	2	R	223,478,261 R	306,956,522								R530,434,783	None	R 265,217,391	
48 SIV2.3: Maselspoort Treatment Upgrades: Phase 3 (70M8/day) - Advance Process	2		R	167,826,087 R	157,826,087							R335,652,174	None	R 167,826,087	

	Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Vear 3	Vear 4	Vear 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total Estimated Project Cost (Excl. VAT)	Predecessor	Annual Assignment	Annual Water Balance Parameter Impact
12	Strategy SIV3: Water Re-Use		R20,869,565	R45,217,391	R133,043,478	R108,695,652	RO	RO	RO	RO	RO		in interpolation			1 CON E
	49 SIV3.1: Maselspoort Water Re-Use (Pump Station and Rising Main)	3	20,869,565 R	45,217,391 R	38,260,870								R104,347,826	None	R 34,782,609	
	50 SIV3.2: Maselspoort Water Re-Use (Gravity Line to Mockes)	2		8	73,913,043 A	51,304,348							R125,217,391	None	R 62,608,696	
	51 SIV3.3: Maselspoort Water Re-Use (Gravity Line to NEWWTW)	2		R	20,869,565 R	57,391,304							R78,260,870	None	R 39,130,435	

Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Vear 3	Year 4	Years	Year 6	Year 7	Year	Year 9	Year 10	Total Estimated Project Cost (Excl. VAT)	Predecessor	Annual Assignment	Annual Water Baland Parameter Impact
Strategy SIV4: Consumer Awareness & Education Programme		R726,000	R2,057,000	R2,057,000	R2,057,000	R968,000	R968,000	R968,000	R968,000	R968,000	R968,000	R12,705,000			
52 SIV4.1: Community Awareness & Education: Development and Implementation of Leak Reporting Platform Open to General Public (This should include an automated process whereby leaks for repair can be assigned to Contractors by MMM)	1	725,000										R726,000		R 726,00	
53 SIV4.2: Community Awareness & Education: Public Awareness Programmes and Extensive Schools Programme for a Period of Three (3) Years	3	R	1,089,000 R	1,089,000 R	1,089,000							R3,267,000		R 1,089,00	
54 SIV4.3: Continued Implementation and Roll-Out of Public Leak Reporting Platform, develop database to inform pipe replacement or valve replacement programmes, and associated leak repair instructions to Contractors for a Period of Three (3) Years	3	01	968,000 R	968,000 R	968,000							R2,904,000			
55 SIV4.4: Continued Implementation and Roll-Out of Public Leak Reporting Platform, develop database to inform pipe replacement or valve replacement programmes, and associated leak repair instructions to Contractors for a Period of Three (3) Years	3				F	968,000 R	968,000 R	968,000				R2,904,000		300,00	
56 SIV4.5: Continued Implementation and Roll-Out of Public Leak Reporting Platform, develop database to inform pipe replacement or valve replacement programmes, and associated leak repair instructions to Contractors for a Period of Three (3) Years	3								968,000 R	968,000 R	968,000	R2,904,000	55	R 968,000	

	Defined Projects	Estimated Project Duration (Years)	Vear 1	Year 2	Year 3	Year 4	Years	Year 6	Year 7	Year 8	Year 9	Year 10	Total Estimated Project Cost (Excl. VAT)	Predecessor	Annual Assignment	Annual Water Balano Parameter Impact
	Strategy BMC1: Metering of Unmetered Sites		R31,883,500	R31,883,500	R40,150,825	R18,074,375	R31,718,133	R31,718,133	R31,718,133	R29,165,033	R29,165,033	R29,165,033				
5	BMC1.1: Metering of Unmetered Sites-Botshabelo Meter Installations (10 540 meters)	2	R 31,883,500 R	31,883,500									R63,767,000	None	R 31,883,500	
5	57 BMC1.2: Metering of Unmetered Sites-Thaba Nchu Meter Installations (5 975 meters)	2		R	18,074,375 N	18,074,375							R36,148,750		R 18,074,375	_
5	58 BMC1.3: Metering of Unmetered Sites-Dewetsdorp, Wepener, Vanstadensrus and Soutpan Meter Installations (3 649 meters)	1		R	22,078,450								R22,076,450	56	R 22,076,450	
5	59 BMC1.4: Metering of Unmetered Sites-Bloemfontein Meter Installations Phase 1 (15 728 meters)	3					R 31,718,133 K	31,715,133 R	31,718,133				R95,154,400	57	7 R 31,718,133	
6	50 BMC1.5: Metering of Unmetered Sites-Bloemfontein Meter Installations Phase 2 (14 462 meters)	3							R	29,165,033 R	29,165,033 R	29,165,033	R87,495,100	58	R 29,165,033	

	Defined Projects	Estimated Project Duration (Years)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	(Excl. VAT)	Predecessor	Annual Assignment	Annual Water Balance Parameter Impact
	Strategy BMC2: Prepaid Programme (Installation of Automated Meter Readers) -		R5,082,000	R5,082,000	R4,840,000	R4,840,000	R4,840,000	R4,840,000	R4,840,000	R4,840,000	R4,840,000	R4,840,000			a disula	
	51 BMC2.1: Identifying Bad Debt Consumers and Prioritisation Programme for Prepaid Meter Installations Prepaid Meter Installations for a Period of Two (2) Years (2000 prepaid meter	2	R 5,082,000 R	5,082,000									R10,164,000	None	R 5,082,00	00
-	BMC2.2: Prepaid Meter Installations for a Period of Two (2) Years (2000 prepaid meter installations)	2		26	4,840,000 R	4,840,000		e springer de la company					R9,680,000	6.	1 R 4,840,00	00
(BMC2.3: Prepaid Meter Installations for a Period of Two (2) Years (2000 prepaid meter installations)	2					4,840,000 R	4,840,000					R9,680,000	6.	2 R 4,840,00	
	54 BMC2.4: Prepaid Meter Installations for a Period of Two (2) Years (2000 prepaid meter installations)	2							4,840,000 R	4,640,000			R9,680,000		, , , , , , , , , , , , , , , , , , , ,	
	55 BMC2.5: Prepaid Meter Installations for a Period of Two (2) Years (2000 prepaid meter installations)	2								R	4,840,000 R	4,840,000	R9,680,000	64	R 4,840,00	00

	Defined Projects	Estimated Project Duration (Years)	Year 1	Vear 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Vear 9	Year 10	Total Estimated Project Cost (Excl. VAT)	t Predecessor	Annual Assignment	Annual Water Balance Parameter Impact
16	Strategy BMC3: Indigent Consumption Policy Assessment and Implementation		RO		RO R1,210,000	RO	RO	RO	RO	RO	RO		RO R1,210,000)		
	66 BMC3.1: Indigent Consumption Policy Assessment and Implementation	1			R_ 1,218,000								R1,210,000	None None	R 1,210,000	

Defined Projects	Estimated Project Duration (Years)	Vear 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	(Exd. VAT)	Predecessor	Annual Assignment	Annual Water Balar Parameter Impact
Strategy BMC4: Reticulation Backlogs and Metering of Sites		R101,796,582	R98,650,285	R102,018,080	R88,589,138	R74,475,090	R73,675,231	R73,675,231	R73,675,231	R73,675,231	R73,675,231		M. F. C.		THE PARTY OF
67 BMC4.1: Addressing backlogs-Bloemfontein: Providing water reticulation in Rodenbeck and metering of sites (264km, 13 501 households)	5	74,425,090 R	74,475,090 R	74,475,090 R	74,475,090 R	74,475,090						R372,375,448 I	None	R 74,475,090	
68 BMC4.2: Addressing backlogs-Bloemfontein: Providing water reticulation in JB Mafora, Kopanong and Mangaung SP areas and metering of sites (261km, 13 356 households)	5					H	73,675,231 R	73,675,231 R	73,675,731 R	73,675,231 R	73,675,231	R368,376,156	67	.,,,,,,	
69 BMC4.3: Dewetsdorp Water & Sewerage Reticulation for Extension 8 and metering of sites (8.4km, 307 households)	1 8	18,293,620										R18,293,620		R 18,293,620	
70 BMC4.4: Addressing backlogs-Thaba Nchu: Providing water reticulation in Bultfontein 4 and metering of sites (5.21km, 270 households)	1 #	9,027,873						_				R9,027,873 N		R 9,027,873	
71 BMC4.5: Addressing backlogs-Thaba Nchu: Providing water reticulation in Ratau (West) and metering of sites (5.64km, 246 households)	1	A	10,530,022									R10,530,022	70	R 10,530,022	
72 BMC4.6: Addressing backlogs-Thaba Nchu: Providing water reticulation in Moroka Ext and metering of sites (5.04km, 199 households)	1	-	1,422,347									R8,422,347	70		
73 BMC4.7: Addressing backlogs-Thaba Nchu: Providing water reticulation in Selosesha and metering of sites (2.84km, 166 households)	1	R	3,222,827									R5,222,827	70		
74 BMC4.8: Addressing backlogs-Wepener: Providing water reticulation in Wepener Kanana (South) and metering of sites (2.05km, 117 households)	1		1	4,883,721								R4,883,721	73	R 4,883,721	
75 BMC4.9: Addressing backlogs-Botshabelo: Providing water reticulation in Botshabelo L (East) and metering of sites (0.72km, 96 households)	1		8	1,756,101					-			R1,756,101	73		
76 BMC4.10: Addressing backlogs-Thaba Nchu: Providing water reticulation in Thubisi and metering of sites (7.25km, 96 households)	1		×	12,434,815								R12,434,815	73		
77 BMC4.11: Addressing backlogs-Thaba Nchu: Providing water reticulation in Bultfontein S and metering of sites (5.71km, 75 households)	1		R	8,468,354								R8,468,354	73	,,,,,	
78 BMC4.12: Addressing backlogs-Botshabelo: Providing water reticulation in Botshabelo L (West) and metering of sites (0.46km, 61 households)	1			70	1,115,856							R1,115,856	77		
79 BMC4.13: Addressing backlogs-Thaba Nchu: Providing water reticulation in Station view and metering of sites (2.57km, 56 households)	1			R:	4,067,358							R4,067,358	77		
80 BMC4.14: Addressing backlogs-Wepener: Providing water reticulation in Wepener Kanana (North) and metering of sites (1.18km, 52 households)	1			8	2,646,246							R2,646,246	77		
81 BMC4.15: Addressing backlogs-Thaba Nchu: Providing water reticulation in Ratau (East) and metering of sites (3.69km, 40 households)	1			R	6,284,589							R6,284,589	77	R 6,284,589	
		423,878,467	546,792,732	868,175,808	455,715,005	173,028,058	182,803,720	1160,979,824	166,441,183	162,292,774	1162,292,774	R3,187,874,121			