# 9. Financial profile

The financials of water services are divided into two aspects namely, new capital projects and operations and maintenance (O&M) of existing infrastructure. The financial budgets of the ZDM are divided between income and expenditure for each of these aspects, and are further separated between water and sanitation.

### 9.1 Capital funds

Indicated below in Tables 9.1 (a) & (b) is the capital required to meet the national objectives of eradicating backlogs for water and sanitation by providing at least the RDP level of service to all households. The costs indicated have been calculated at present value and therefore excludes an allowance for future escalation. Tables 9.1 (c) & (d) indicate available funding up to 2014 and the shortfall in funding in order to eradicate backlogs by not later than 2014.

Current and future refurbishment requirements have not yet been included since investigations in this regard are still being done and the results will be included in future revisions of the document. However, a Rural Sanitation Replacement Programme has been initiated by ZDM during 2013. The purpose of this programme will be to replace the old Archloo-, Block- and Zink-type VIP's. The Archloo-type VIP is not sustainable for longer than 3-5years, after which the structure starts to collapse. This causes a serious risk to people using the unit. Furthermore, these units are immovable, and most of the pits are full or nearly full. The purpose of the replacement programme is to replace all these units with movable pre-cast units. These structures have a long lifespan and can be moved in the case where pits get filled up.

Zululand District Municipality Waster Services Development Plan (DC26) Section 9: Financial Profile

#### Table 9.1 (a): Capital requirements: water

WATER	Cap	oital requirements		2017/2018	2018/2019		2019/2020		2020/2021			2021/2022		>2022
Regional bulk	R	2 339 962 853	R	380 813 147	R	351 266 350	R	290 925 142	R	294 572 595	R	313 011 521	R	709 374 098
Secondary bulk	R	1 054 030 068	R	48 562 125	R	31 485 265	R	36 487 526	R	33 478 526	R	35 896 523	R	868 120 103
Reticulation	R	165 680 556	R	10 548 752	R	14 254 789	R	12 685 235	R	11 452 635	R	14 758 965	R	101 980 180
Total capital (new)	R	3 559 673 477	R	439 924 024	R	397 006 404	R	340 097 903	R	339 503 756	R	363 667 009	R	1 679 474 381
Regional bulk (WTW)	R	599 570 000		TBA		TBA		TBA						
Secondary bulk		TBA		TBA		TBA		TBA						
Reticulation		TBA		TBA		TBA		TBA						
Total capital (refurbishment)	R	599 570 000		TBA		TBA		TBA						
Total capital	R	4 159 243 477	R	439 924 024	R	397 006 404	R	340 097 903	R	339 503 756	R	363 667 009	R	1 679 474 381

#### Table 9.1 (b): Capital requirements: sanitation

SANITATION	Cap	oital requirements		2017/2018		2018/2019		2019/2020		2020/2021		2021/2022		>2022
Bulk infrastructure	R	-												
Reticulation	R	-												
VIP toilets	R	380 070 000		47 000 000		47 000 000		47 000 000		47 000 000		47 000 000		145 070 000
Total capital (new)	R	380 070 000	R	47 000 000	R	47 000 000	R	47 000 000	R	47 000 000	R	47 000 000	R	145 070 000
Bulk infrastructure (WWTW)		322 510 000		TBA										
Reticulation		TBA		TBA		TBA		TBA		TBA		TBA		TBA
VIP toilets (Replacement Prgrm)		408 880 000		TBA										
Total capital (refurbishment)	R	731 390 000	R	-	R	-	R	-	R	-	R	-	R	-
Total capital	R	1 111 460 000	R	47 000 000	R	47 000 000	R	47 000 000	R	47 000 000	R	47 000 000	R	145 070 000

### Table 9.1 (c): Source of capital income: water

WATER		Exp	ected Funding		2017/2018		2018/2019		2019/2020	2	020/2021		2021/202	2		>2022
MIG		R	182 604 350	R	182 604 350		TBA		TBA		TBA		TBA			TBA
DWA (RBIG)		R	110 000 000	R	110 000 000		TBA		TBA		TBA		TBA			TBA
Housing																
WSIG		R	107 746 000	R	107 746 000		TBA		TBA		TBA		TBA			TBA
Loans																
	TOTAL	R	400 350 350	R	400 350 350	R	-	R	-	R		-	R	-	R	-
Capital requirements		R	4 159 243 477													
	Shortfall	R	-3 758 893 127													

#### Table 9.1 (d): Source of capital income: sanitation

SANITATIO	N	Exp	pected Funding	2017/2018		2018/2019	2019/2020	2020/2021	2021/2022	>2022
MIG		R	104 794 400	47 120 650		57 673 750	TBA	ТВА	ТВА	TBA
DWA										
Housing		R	4 300 000	R 4 300 000						
Other grant funding										
Loans										
	TOTAL	R	109 094 400	R 51 420 650	R	57 673 750				
Capital requirements		R	1 111 460 000							
1	Shortfall	R	-1 002 365 600							

## 9.2 Operating costs and income (water & sanitation)

Of critical importance is the funding of Operations and Maintenance of existing and future schemes as they are being commissioned. Correct O&M of physical infrastructure is arguably more important than infrastructure construction because unless successful preventative maintenance procedures are instituted schemes will become inoperative. As a large proportion of expenditure relates to staff, competent personnel are required to ensure that the large investments in water services are not negated through dysfunction or dereliction.

Table 9.2 (a) below shows the operational costs associated with the provision of water services in the district.

### 9.3 Tariffs and charges

The ZDM tariff structure for various levels of water and sanitation services, including the Free Basic Services (FBS) allowance to households, are indicated in Table 9.3 (a) below. The demographics of the ZDM indicate that the level of poverty in the ZDM is high (Section 1). The ZDM cannot afford the expenses of maintaining an indigent roster and therefore provides all households in the district with FBS. Only institutions (schools, clinics, etc.) are not provided with FBS. ZDM might in future refine the above approach to a more targeted approach based on different residential areas.

Operating costs and income	Тс	tal 5yr projected		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022
Operational costs	R	2 584 611 744	R	431 009 527	R	470 231 394	R	513 022 451	R	559 707 494	R	610 640 876
Personnel costs	R	915 267 755	R	152 629 935	R	166 519 259	R	181 672 512	R	198 204 710	R	216 241 339
Total O&M costs	R	3 499 879 499	R	583 639 462	R	636 750 654	R	694 694 963	R	757 912 205	R	826 882 215
Equitable share: FBS	R	2 328 387 910	R	388 281 673	R	423 615 306	R	462 164 298	R	504 221 250	R	550 105 383
Income: sales (actual payment)	R	133 386 724	R	22 243 553	R	24 267 717	R	26 476 079	R	28 885 402	R	31 513 974
Total income	R	2 461 774 634	R	410 525 227	R	447 883 022	R	488 640 377	R	533 106 652	R	581 619 357
Deficit/surplus	R	-1 038 104 865	R	-173 114 236	R	-188 867 631	R	-206 054 586	R	-224 805 553	R	-245 262 859

### Table 9.2 (a): Operational costs and income

	NONG	AMC			ULUN	IDI			EDUN	ИВЕ		PONGOLA				
			%				%				%			_	%	
NONGOMA	VAT	AMOUNT	CHANGE	ULUNDI	VAT	AMOUNT	CHANGE	EDUMBE	VAT	AMOUNT	CHANGE	PONGOLA	VAT	AMOUNT	CHANGE	
0.00	0.00			0.00	0.00			0.00	0.00			0.00	0.00			
0.00	0.00		0%	0.00	0.00		0%	0.00	0.00		0%	0.00	0.00		0%	
4.40	0.62	5.02		4.40	0.62	5.02		4.40	0.62	5.02		3.72	0.52	4.24		
4.84	0.68	5.52	10%	4.84	0.68	5.52	10%	4.84	0.68	5.52	10%	4.09	0.57	4.66	10%	
5.39	0.75	6.14		5.39	0.75	6.14		5.39	0.75	6.14		5.24	0.73	5.97		
5.93	0.83	6.76	10%	5.93	0.83	6.76	10%	5.93	0.83	6.76	10%	5.93	0.83	6.76	10.0%	
6.68	0.94	7.62		6.52		7.43		6.51	0.91	7.42		6.68	0.94	7.62		
7.35	1.03	8.38	10%	7.35	1.03	8.38	10.0%	7.35	1.03	8.38	10.0%	7.35	1.03	8.38	10%	
					0.00	0.00			0.00	0.00			0.00	0.00		
6.18	0.87	7.05		6.18	0.87	7.05		5.64	0.79	6.43		6.18	0.87	7.05		
6.80	0.95	7.75	10%	6.80	0.95	7.75	10%	6.80	0.95	7.75	10.0%	6.80	0.95	7.75	10%	
3 n	nonths cor	sumption		3	months co	nsumption		3 1	months co	nsumption		3 m	onths cons	umption		
2 178.00	304.92	2482.92	10%	2 178.00	304.92	2482.92	10%	2 178.00	304.92	2482.92	10.0%	2 178.00	304.92	2482.92	10%	
cost +10%				cost +10%				cost +10%				cost +10%				
1 277.10	178.794	1455.89	10%	1 277.10	178.79	1455.89	10%	1 277.10	178.79	1455.89	10%	1 277.10	178.79	1455.89	10%	
2 554.20	357.588	2911.79	10%	2 554.20	357.59	2911.79	10%	2 554.20	357.59	2911.79	10.0%	2 554.20	357.59	2911.79	10%	
	0	0.00			0.00	0.00			0.00	0.00			0.00	0.00		
128.70			10%	128.70			10%	128.70			10.0%	128.70			10%	
	0	0.00				0.00			0.00	0.00			0.00			
7.70	1.08	8.78	10%	7.70	1.08	8.78	10%	7.70	1.08	8.78	10.0%	7.70	1.08	8.78	10%	
												I			1	
126 5	17.71	144,21	10%	126 5	17.71	144,21	10%	126 5	17 71	144,21	10.0%	126 5	17.71	144,21	10%	
				120.5												
418.00	58.52	476.52	10%	418.00	58.52	476.52	10%	418.00	58.52	476.52	10.0%	418.00	58.52	476.52	10%	
	0.00 4.40 4.84 5.39 5.93 6.68 7.35 6.18 6.80 3 n 2 178.00 cost +10%	NONGOMA VAT   0.00 0.00   0.00 0.00   0.00 0.00   4.40 0.62   4.84 0.68   5.39 0.75   5.39 0.75   5.93 0.83   6.68 0.94   7.35 1.03   6.68 0.94   7.35 1.03   0.618 0.87   6.68 0.95   304.92 0.95   304.92 0.95   1277.10 178.794   2 554.20 357.588   0 0   128.70 18.02   0 0   7.70 1.08	0.00 0.00   0.00 0.00   0.00 0.00   4.40 0.62 5.02   4.84 0.68 5.52   5.39 0.75 6.14   5.93 0.83 6.76   6.68 0.94 7.62   7.35 1.03 8.38   6.18 0.87 7.05   6.80 0.95 7.75   3 months consumption 2 178.00 304.92 2482.92   cost +10% 1455.89 2 511.79 0 0.00   128.70 18.02 146.72 0 0.00   7.70 1.08 8.78 7.80 1.00 0.00	NONGOMA VAT AMOUNT %   AMOUNT CHANGE   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   4.40 0.62 5.02   4.84 0.68 5.52 10%   5.39 0.75 6.14 10%   5.93 0.83 6.76 10%   6.68 0.94 7.62 10%   6.618 0.87 7.05 10%   6.618 0.95 7.75 10%   2 178.00 304.92 2482.92 10%   2 554.20 357.588 2911.79 10%   128.70 18.02 146.72 10%   7.70 1.08 8.78 10%	NONGOMA VAT AMOUNT CHANGE ULUNDI   0.00 0.00 0.00 0.00 0.00   0.00 0.00 0% 0.00   0.00 0.00 0% 0.00   0.00 0.00 0% 0.00   0.00 0.00 0% 0.00   0.00 0.00 0% 0.00   4.40 0.62 5.02 4.40   4.84 0.68 5.52 10% 4.84   5.39 0.75 6.14 5.39   5.93 0.83 6.76 10% 5.93   6.68 0.94 7.62 6.52   7.35 1.03 8.38 10% 7.35   6.18 0.87 7.05 10% 6.80   3 moths consumption 3 3 2178.00 304.92 2482.92 10% 2 1278.00   1 277.10 178.794 1455.89 10% 1 2277.10 2 554.20 0 <	NONGOMA VAT AMOUNT CHANGE ULUNDI VAT   AMOUNT CHANGE ULUNDI VAT   AMOUNT CHANGE ULUNDI VAT   AMOUNT CHANGE ULUNDI VAT   AMOUNT CHANGE ULUNDI VAT   AMOUNT O.00 O.00 O.00 O.00   O.00 O.00 O% O.00 O.00   AMOUNT CHANGE ULUNDI VAT   AMOUNT O.00 O.00 O.00 O.00   AMOUNT O.00 O.00 O.00 O.00 O.00   AMOUNT S.02 A.40 O.62 O.00 O.53   S.39 O.75 6.14 S.39 O.75   S.93 O.83 6.76 10% S.33 O.83   AMOUNT T.62 G.52 O.91 T.35 I.03   AMOUNT S.38 10% T.35 I.03 O.30   AMOUNT S.	NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT   0.00 0.00 0.00 0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00 0.00 0.00   4.40 0.62 5.02 4.40 0.62 5.02   4.84 0.68 5.52 10% 4.84 0.68 5.52   5.39 0.75 6.14 5.39 0.75 6.14   5.93 0.83 6.76 10% 7.35 1.03 8.38   6.68 0.94 7.62 6.52 0.91 7.43   7.35 1.03 8.38 10% 7.35 1.03 8.38   0 0.95 7.75 10% 6.80 0.92 7.75   178.00	NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE   0 0 0.00 0.00 0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00 0.00 0.00   4.40 0.62 5.02 4.40 0.62 5.02 4.40 0.62 5.02   4.84 0.68 5.52 10% 4.84 0.68 5.52 10%   5.39 0.75 6.14 5.39 0.75 6.14 10%   5.93 0.83 6.76 10% 5.93 0.83 6.76 10%   6.68 0.94 7.62 6.52 0.91 7.43 10%   6.80 0.95 7.75 10% 6.80 0.95 7.75 10%   2 178.00 304.92 2482.92 10% cost +10% 10% <t< td=""><td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE   0.00 0.00 0.00 0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00 0.00 0.00   4.40 0.62 5.02 4.40 0.62 5.02 4.40   4.84 0.68 5.52 10% 4.84 0.68 5.52 10% 4.84   5.39 0.75 6.14 5.39 0.75 6.14 5.39   5.93 0.83 6.76 10% 5.93 0.83 6.76 10% 7.35   6.68 0.94 7.62 6.52 0.91 7.43 6.51   7.35 1.03 8.38 10% 7.35 1.03 8.38 10.0% 7.35   6.68 0.94 7.62 6.52 0.91 7.43 6.51   7.35 1.03 8.38 10% 7.35 <td< td=""><td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT   0.00</td><td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT AMOUNT   0.00</td><td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT AMOUNT CHANGE   0.00</td></td<><td>NONGOMA VAT AMOUNT R PAAGE ULUNDI VAT AMOUNT R PAAGE EDUMBE VAT AMOUNT R PAAGE PONGOLA   0.00 0.</td><td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT AMOUNT CHANGE PONGOLA VAT   0.00<!--</td--><td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE PONGOLA VAT AMOUNT   0.00</td></td></td></t<>	NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE   0.00 0.00 0.00 0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00 0.00 0.00   4.40 0.62 5.02 4.40 0.62 5.02 4.40   4.84 0.68 5.52 10% 4.84 0.68 5.52 10% 4.84   5.39 0.75 6.14 5.39 0.75 6.14 5.39   5.93 0.83 6.76 10% 5.93 0.83 6.76 10% 7.35   6.68 0.94 7.62 6.52 0.91 7.43 6.51   7.35 1.03 8.38 10% 7.35 1.03 8.38 10.0% 7.35   6.68 0.94 7.62 6.52 0.91 7.43 6.51   7.35 1.03 8.38 10% 7.35 <td< td=""><td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT   0.00</td><td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT AMOUNT   0.00</td><td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT AMOUNT CHANGE   0.00</td></td<> <td>NONGOMA VAT AMOUNT R PAAGE ULUNDI VAT AMOUNT R PAAGE EDUMBE VAT AMOUNT R PAAGE PONGOLA   0.00 0.</td> <td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT AMOUNT CHANGE PONGOLA VAT   0.00<!--</td--><td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE PONGOLA VAT AMOUNT   0.00</td></td>	NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT   0.00	NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT AMOUNT   0.00	NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT AMOUNT CHANGE   0.00	NONGOMA VAT AMOUNT R PAAGE ULUNDI VAT AMOUNT R PAAGE EDUMBE VAT AMOUNT R PAAGE PONGOLA   0.00 0.	NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE EDUMBE VAT AMOUNT CHANGE PONGOLA VAT   0.00 </td <td>NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE PONGOLA VAT AMOUNT   0.00</td>	NONGOMA VAT AMOUNT CHANGE ULUNDI VAT AMOUNT CHANGE PONGOLA VAT AMOUNT   0.00	

#### Table 9.3 (a): ZDM Water Services Tariffs

#### Zululand District Municipality Waster Services Development Plan (DC26) Section 9: Financial Profile

LM		NONG	OMA			ULUN	IDI			EDUI	MBE		PONGOLA				
DETAILS	NONGOMA	VAT	AMOUNT	% CHANGE	ULUNDI	VAT	AMOUNT	% CHANGE	EDUMBE	VAT	AMOUNT	% CHANGE	PONGOLA	VAT	AMOUNT	% CHANGE	
SEWERAGE CHARGES																	
SEWERAGE CHARGES																	
CURRENT (Vat inclusive)	55.59	7.78	63.37		55.59	7.78	63.37		0.00	0.00	0.00		55.59	7.78	63.37		
PROPOSED	66.00	9.24	75.24	10.00%	66.00	9.24	75.24	10.0%	0.00	0.00	0.00		66.00	9.24	75.24	10.0%	
SEWER EXCESS																	
CURRENT (Vat inclusive)	2.50	0.35	2.85		2.50	0.35	2.85			0.00	0.00		2.50	0.35	2.85		
PROPOSED	3.03	0.42	3.45	10%	3.03	0.42	3.45	10%		0.00	0.00		3.03	0.42	3.45	10%	
VACUUM TANK SERVICE per 5kl OR PART TI	HEREOF																
Normal week days	116.60	16.324	132.92	10%	116.60	16.324	132.92	10%	116.60	16.324	132.92	10%	116.60	16.324	132.92	10%	
Weekends and Public Holidays	408.10	57.134	465.23	10%	408.10	57.134	465.23	10%	408.10	57.134	465.23	10%	408.10	57.134	465.23	10%	
Rate per km	5.50	0.77	6.27	10%	5.50	0.77	6.27	10%	5.50	0.77	6.27	10%	5.50	0.77	6.27	10%	
STAND ALONE/ DEDICATED SCHEMES	cost +10%				cost +10%				cost +10%				cost +10%				
WATER DEPOSIT																	
WATER DEPOSIT	I	0.00	0.00			0.00	0.00			0.00	0.00			0.00	0.00		
DOMESTIC	ESTIMATED	TARRIF C	F R250 MII	мими	ESTIMATED	TARRIF C	F R250 MIN	іімим	ESTIMATE		OF R250 MII	NIMUM	ESTIMATED	TARRIF OF	R250 MINI	мим	
NON DOMESTIC	AVERAGE		NATER SER	VICES	AVERAGE	MONTH	NATER SERV	/ICES	AVERAGI	E MONTH	WATER SER	VICES	AVERAGE	MONTH W	ATER SERVI	CES	
GENERAL TARRIFS:																	
METER TESTING	cost +10%				cost +10%				cost +10%				cost +10%				
TENDER FEE	176.00	24.64	200.64	10%	176.00	24.64	200.64	10%	176.00	24.64	200.64	10%	176.00	24.64		10%	
INDONSA HALL HIRE	583.00	81.62	664.62	10%	583.00	81.62	664.62	10%	583.00	81.62	664.62	10%	583.00	81.62		10%	
INDONSA DEPOSIT REFUNDABLE	233.2	32.65	265.85	10%	233.2	32.65	265.85	10%	233.2	32.65	265.85	10%	233.2	32.65		10%	
R/D CHEQUE	93.5	13.09	106.59	10%	93.5	13.09	106.59	10%	93.5	13.09	106.59	10%	93.5	13.09	106.59	10%	
SEWER POND DUMP SITE PER LOAD	61.6	8.62	70.22	10%	61.6	8.62	70.22	10%	61.6	8.62	70.22	10%	61.6	8.62	70.22	10%	
FAX	2.20	0.31	2.51	10%	2.20	0.31	2.51	10%	2.20	0.31	2.51	10%	2.20	0.31	-	10%	
CLEARANCE CERTIFICATE	11.00	1.54	12.54	10%	11.00	1.54	12.54	10%	11.00	1.54	12.54	10%	11.00	1.54	12.54	10%	

### 9.4 Income and sales

ZDM has developed a WSP reporting system, which is in the process of being rolled out, where actual income from water sales will be monitored on a monthly basis. Data from this system will be included in future revisions of the WSDP.

## 9.5 Metering and billing

The WSP reporting system referred to above will also report on metered and unmetered supply points and strategies being implemented to improve the situation. Data from this system will be included in future revisions of the WSDP.