# 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.

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

WATER	Ca	oital requirements		2016/2017		2017/2018	>2018			
Regional bulk	R	1 923 123 833	R	380 813 147	R	351 266 350	R	1 191 044 336		
Secondary bulk	R	1 054 030 068	R	48 562 125	R	31 485 265	R	973 982 678		
Reticulation	R	135 680 556	R	10 548 752	R	14 254 789	R	110 877 015		
Total capital (new)	R	3 112 834 457	R	439 924 024	R	397 006 404	R	2 275 904 029		
Regional bulk (WTW)	R	295 123 300		TBA		TBA		TBA		
Secondary bulk		TBA		TBA		TBA		TBA		
Reticulation		TBA		TBA		TBA		TBA		
Total capital (refurbishment)		TBA		TBA		TBA		TBA		
Total capital	R	3 407 957 757	R	439 924 024	R	397 006 404	R	2 275 904 029		

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

SANITATION	Capital requirements			2016/2017		2017/2018			
Bulk infrastructure	R	-	R	-	R	-	R		-
Reticulation	R	-	R	-	R	-	R		-
VIP toilets	R	310 710 000		56 255 250		51 906 375		TBA	
Total capital (new)	R	310 710 000	R	56 255 250	R	51 906 375	R		-
Bulk infrastructure (WWTW)		88 136 253		TBA		TBA		TBA	
Reticulation		TBA		TBA		TBA		TBA	
VIP toilets (Replacement Prgrm)		408 880 000		-		5 763 750		TBA	
Total capital (refurbishment)	R	497 016 253	R	-	R	5 763 750	R		-
Total capital	R	719 590 000	R	56 255 250	R	57 670 125		ТВА	

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

WATER	Expected Funding		2016/2017			2017/2018	>2018			
MIG	R	346 042 500	R	173 021 250	R	173 021 250		TBA		
DWA (RBIG)	R	108 000 000	R	108 000 000		TBA		TBA		
Housing	R	-	R	-	R	-	R		-	
Other grant funding (MWIG)	R	-		TBA		TBA		TBA		
Loans	R	-	R	-	R	-	R		-	
TOTAL	R	454 042 500	R	281 021 250	R	173 021 250	R		-	
Capital requirements	R	3 407 957 757								
Shortfall	R	-2 953 915 257								

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

SANITATION		Exp	pected Funding		2016/2017		2017/2018			
MIG		R	115 347 500		57 673 750		57 673 750	TBA		
DWA		R	-	R	-	R	-	R		-
Housing		R	9 300 000	R	5 000 000	R	4 300 000	TBA		
Other grant funding		R	-	R	-	R	-	R		-
Loans		R	-	R	-	R	-	R		-
T	OTAL	R	124 647 500	R	62 673 750	R	61 973 750	R		-
Capital requirements		R	719 590 000							
Sho	ortfall	R	-594 942 500							

# 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	Total 5yr projected		2013-2014			2014-2015	2015-2016			2016-2017		2017-2018
Operational costs	R	1 702 170 457	R	314 899 527	R	331 904 101	R	362 107 374	R	395 059 145	R	431 009 527
Personnel costs	R	592 140 014	R	107 731 006	R	117 534 528	R	128 230 170	R	139 899 116	R	152 629 935
Total O&M costs	R	2 294 310 471	R	422 630 533	R	449 438 629	R	490 337 544	R	534 958 261	R	583 639 462
Equitable share: FBS	R	1 517 800 300	R	277 840 000	R	299 001 000	R	326 210 091	R	355 895 209	R	388 281 673
Income: sales (actual payment)	R	144 709 365	R	15 700 199	R	17 128 917	R	18 687 649	R	20 388 225	R	22 243 553
Total income	R	1 662 509 666	R	293 540 199	R	316 129 917	R	344 897 740	R	376 283 434	R	410 525 227
Deficit/surplus	R	-631 800 805	R	-129 090 334	R	-133 308 712	R	-145 439 804	R	-158 674 827	R	-173 114 236

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

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

LM		NONG	AMC			ULUN	IDI			EDUN	ИBE		PONGOLA			
DETAILS	NONGOMA	VAT	AMOUNT	% CHANGE	ULUNDI	VAT	AMOUNT	% CHANGE	EDUMBE	VAT	AMOUNT	% CHANGE	PONGOLA	VAT	AMOUNT	% CHANGE
WATER TARIFFS																
DOMESTIC																
CURRENT 0-6kl	0.00	0.00			0.00	0.00			0.00	0.00			0.00	0.00		
PROPOSED	0.00	0.00		0%	0.00	0.00		0%	0.00	0.00		0%	0.00	0.00		0%
		0.62	5.00		4 40	0.62	5.00		4.40	0.62	5.00		2 72	0.50	4.24	
CURRENT 7-30kl	4.40	0.62	5.02	4.00/	4.40	0.62	5.02	100/	4.40	0.62	5.02	1.00/	3.72	0.52	4.24	100/
PROPOSED	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%
CURRENT 30-40	5.39	0.75	6.14		5.39	0.75	6.14		5.39	0.75	6.14		5.24	0.73	5.97	
PROPOSED	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%
CURRENT > 40	6.68	0.94	7.62		6.52	0.91	7.43		6.51	0.91	7.42		6.68	0.94	7.62	<b></b>
PROPOSED	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%
BUSINESS						0.00	0.00			0.00	0.00			0.00	0.00	
CURRENT	6.18	0.87	7.05		6.18	0.87	7.05		5.64	0.79	6.43		6.18	0.87	7.05	
PROPOSED	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%
WATER CONNECTIONS:	3 r	nonths cor	nsumption		3 m	nonths cor	sumption		3 r	nonths co	nsumption		3 m	onths cons	umption	
Residential	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%
Businesses	cost +10%				cost +10%				cost +10%				cost +10%			
METER TEMPERING:																
First Offence	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%
Second Offence	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%
Third Offence		0	0.00			0.00	0.00			0.00	0.00			0.00	0.00	
WATER RECONNECTION FEE:	128.70	18.02	146.72	10%	128.70	18.02	146.72	10%	128.70	18.02	146.72	10.0%	128.70	18.02	146.72	10%
WATER TANKERS: loads		0	0.00			0.00	0.00			0.00	0.00			0.00	0.00	
Rate per kiloliter (Portable Water)	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%
Other Consumables																
	I			10%	126.5	17 74	144.24	100/	120 5	17 74	144.24	10.00/	100 5	17 74	144.24	100/
Where no working water meter is installed	100 5	47 74			176.5	17.71	144.21	10%	126.5	17.71	144.21	10.0%	126.5	17.71	144.21	10%
on which the property is occupied	126.5	17.71	144.21				470.52		410.00	F0 F2	470 53	10.00/	410.00		470.52	100/
_	126.5 418.00 cost +10%	17.71 58.52	476.52	10%	418.00 cost +10%	58.52	476.52	10%	418.00 cost +10%	58.52	476.52	10.0%	418.00 cost +10%	58.52	476.52	10%

LM		NONG	OMA			ULU	NDI			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%
ACUUM TANK SERVICE per 5ki OR PART THEREOF																
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		0.00	0.00		[ [	0.00	0.00			0.00	0.00			0.00	0.00	
DOMESTIC	ESTIMATED	TARRIF C	F R250 MI	лімим	ESTIMATED		DF R250 MIN	шмим	ESTIMATED TARRIF OF R250 MINIMUM				ESTIMATED TARRIF OF R250 MINIMUM			
NON DOMESTIC			NATER SER		AVERAGE	MONTH	WATER SER	/ICES	AVERAG	E MONTH	WATER SER	VICES	AVERAGE	MONTH W	ATER SERV	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	200.64	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	664.62	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	265.85	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	2.51	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.