

3.3 Electricity

Figure / Table 3.18: Energy or fuel for cooking: Nketoana, Thabo Mofutsanyana and RSA

	Nketoana	Energy or fuel for cooking as a %: Nketoana	Thabo Mofutsanyana District	Energy or fuel for cooking as a %: Thabo Mofutsanyana	RSA	Energy or fuel for cooking as a %: RSA
None	28	0%	410	0%	31390	0%
Electricity	12831	74%	169669	78%	10675094	74%
Gas	466	3%	8192	4%	507616	4%
Paraffin	611	4%	15990	7%	1227337	8%
Wood	2817	16%	17840	8%	1807606	13%
Coal	391	2%	4288	2%	104171	1%
Animal dung	153	1%	1207	1%	45349	0%
Solar	16	0%	233	0%	22255	0%
Other	5	0%	56	0%	29344	0%

(Source: Census 2011)

Figure / Table 3.19: Energy or fuel for cooking: 2001-2011

Census 2001			Community Survey 2007			Census 2011		
	Total house-holds	% of house-holds		Total house-holds	% of house-holds		Total house-holds	% of house-holds
None	0	0%		0	0%		28	0%
Electricity	5327	36%		9195	55%		12831	74%
Gas	473	3%		450	3%		466	3%
Paraffin	2761	18%		3374	20%		611	4%
Wood	3214	22%		2197	13%		2817	16%
Coal	2726	18%		1130	7%		391	2%
Animal dung	457	3%		402	2%		153	1%
Solar	49	0%		0	0%		16	0%
Other	32	0%		0	0%		5	0%
Not applicable	-							
Total	15039			16748			17318	

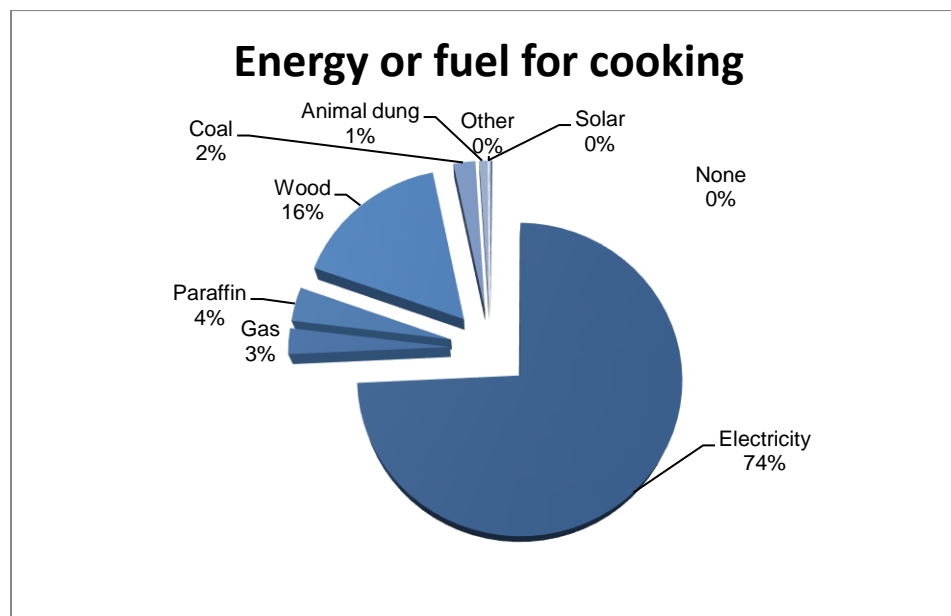
(Source: StatsSa)

Figure / Table 3.20: Energy or fuel for cooking according to category and per ward

	None	Electricity	Gas	Paraffin	Wood	Coal	Animal dung	Solar	Other
FS193: Nketoana	28	12831	466	611	2817	391	153	16	5
Ward 1	1	1628	60	32	178	27	2	-	-
Ward 2	4	1515	26	37	229	48	8	2	-
Ward 3	5	1929	15	44	131	14	28	6	2
Ward 4	3	1368	53	53	227	5	52	1	1
Ward 5	4	1215	53	124	314	21	22	-	-
Ward 6	-	1044	95	41	620	44	22	3	-
Ward 7	3	1490	66	72	398	72	13	-	1
Ward 8	4	1271	33	40	87	81	4	1	-
Ward 9	4	1370	65	168	635	80	2	3	-

(Source: StatsSa)

Figure / Table 3.21: Energy or fuel for cooking



(Source: StatsSa)

Figure / Table 3.22: Energy or fuel for heating: Nketoana, Thabo Mofutsanyana and RSA

	Nketoana	Energy or fuel for heating as a %: Nketoana	Thabo Mofutsanyana District	Energy or fuel for heating as a %: Thabo Mofutsanyana	RSA	Energy or fuel for heating as a %: RSA
None	1142	7%	14999	7%	1773372	12%
Electricity	9397	54%	105114	48%	8503109	59%
Gas	440	2%	7825	4%	357062	3%
Paraffin	447	3%	37974	17%	1230223	9%
Wood	4494	26%	33582	15%	2203384	15%
Coal	1193	7%	16486	8%	293949	2%
Candles (not a valid option)	0	0	-	0%	-	0%
Animal dung	185	1%	1612	1%	48251	0%
Solar	19	0%	281	0%	38370	0%
Other	2	0%	11	0%	2442	0%

(Source: Census 2011)

Figure / Table 3.23: Energy or fuel for heating: 2001-2011

Census 2001			Community Survey 2007			Census 2011		
	Total house-holds	% of house-holds		Total house-holds	% of house-holds		Total house-holds	% of house-holds
None	0	0%		0	0%		1142	7%
Electricity	4316	29%		5071	30%		9397	54%
Gas	166	1%		148	1%		440	2%
Paraffin	1337	9%		1887	11%		447	3%
Wood	3737	25%		3273	20%		4494	26%
Coal	4720	31%		5750	34%		1193	7%
Animal dung	470	3%		289	2%		0	0
Solar	57	0%		0	0%		185	1%
Other	233	2%		329	2%		19	0%
Not applicable	-			-			2	0%
Total	15039			16748			17319	

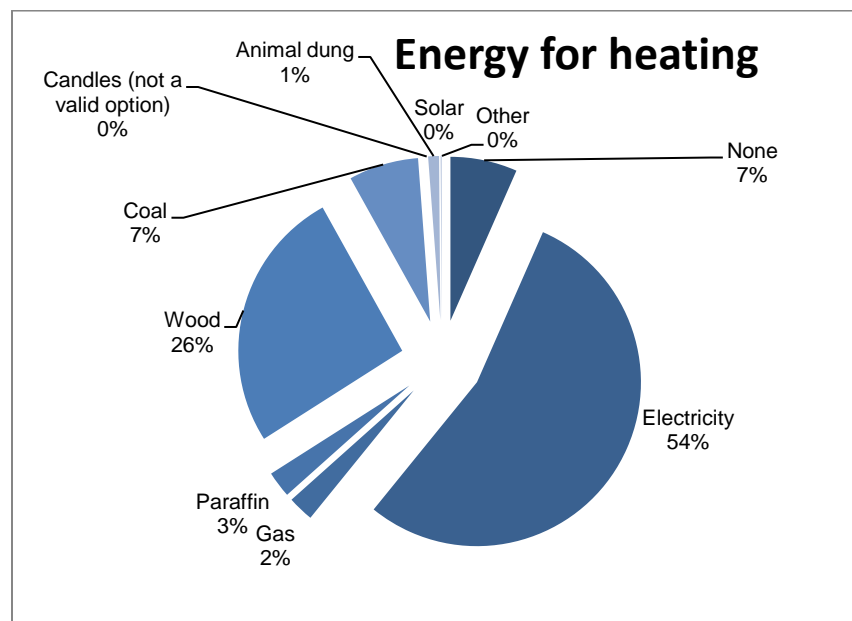
(Source: Census 2001, 2007, 2011)

Figure / Table 3.24: Energy or fuel for heating according to category and per ward

	None	Electricity	Gas	Paraffin	Wood	Coal	Candles (not a valid option)	Animal dung	Solar	Other
FS193: Nketoana	1142	9397	440	447	4494	1193	0	185	19	2
Ward 1	70	1267	40	27	394	126	-	3	1	-
Ward 2	235	879	29	29	548	136	-	12	1	1
Ward 3	160	1600	30	44	230	71	-	36	2	-
Ward 4	223	904	88	41	375	61	-	66	4	1
Ward 5	96	868	24	57	631	45	-	29	3	-
Ward 6	103	840	93	23	734	55	-	21	-	-
Ward 7	68	1264	77	67	473	150	-	12	2	-
Ward 8	99	830	28	40	206	311	-	5	3	-
Ward 9	87	944	29	119	904	239	-	1	3	-

(Source: StatsSA, Census 2011)

Figure / Table 3.25: Energy or fuel for heating



(Source: StatsSA, Census 2011)

Figure / Table 3.26: Energy or fuel for lighting: Nketoana, Thabo Mofutsanyana and RSA

	Nketoana	Energy or fuel for lighting as a %: Nketoana	Thabo Mofutsanyana District	Energy or fuel for lighting as a %: Thabo Mofutsanyana	RSA	Energy or fuel for lighting as a %: RSA
None	30	0%	426	0%	46621	0%
Electricity	14661	85%	189939	87%	12242401	85%
Gas	11	0%	246	0%	34347	0%
Paraffin	106	1%	2196	1%	426205	3%
Candles (not a valid option)	2459	14%	24625	12%	1649082	12%
Solar	50	0%	452	0%	51505	0%
Unspecified	-		-			
Not applicable	-		-			

(Source: Census 2011)

Figure / Table 3.27: Energy or fuel for lighting: 2001-2011

Census 2001			Community Survey 2007			Census 2011		
	Total house-holds	% of house-holds		Total house-holds	% of house-holds		Total house-holds	% of house-holds
None	0	0%		0	0%		30	0%
Electricity	11459	76%		12016	72%		14661	85%
Gas	20	0%		17	0%		11	0%
Paraffin	213	1%		375	2%		106	1%
Candles	3178	21%		4256	25%		2459	14%
Solar	101	1%		0	0%		50	0%
Other	67	1%		84	1%		0	0%
Not applicable	3	0%		0	0%		0	0%
Total	15039			16748			17317	

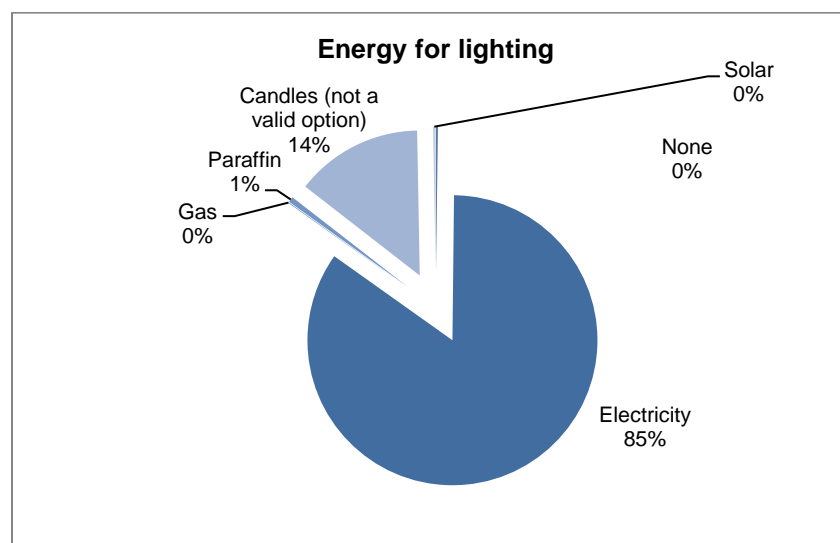
(Source: Statistics South Africa, 2001, 2007, 2011)

Figure / Table 3.28: Energy or fuel for lighting according to category and per ward

Wards	None	Electricity	Gas	Paraffin	Candles (not a valid option)	Solar
FS193: Nketoana	30	14661	11	106	2459	50
Ward 1	-	1785	-	3	136	5
Ward 2	3	1716	2	7	142	-
Ward 3	5	2035	-	9	120	4
Ward 4	2	1495	3	7	252	4
Ward 5	5	1328	-	17	391	13
Ward 6	2	1390	1	20	444	12
Ward 7	6	1806	3	4	291	3
Ward 8	1	1461	-	4	56	-
Ward 9	6	1645	3	35	629	8

(Source: Statistics South Africa, Census, 2011)

Figure / Table 3.29: Energy or fuel for lighting



(Source: Statistics South Africa, Census, 2011)

Figure / Table 3.30: Situation Analysis, Electricity

<p>Status Quo:</p>	<ul style="list-style-type: none"> <p><u>Reitz Town:</u></p> <p>Nketoana receives Bulk Electricity supply from Eskom at an NMD of 8.5 MVA for Reitz Town and distributes it to about 1092 Consumers. The current Demand for Reitz Town is 7.6 MVA. Electricity supply in Reitz is stable with some interruptions due to aged infrastructure and natural causes. Protection on Switch gear at Reitz Main Substation was upgraded during the previous financial year (2015/2016).</p> <p>Reitz town has 07 semi-skilled Personnel to repair and maintain the Electricity Infrastructure.</p> <p><u>Mamafubedu Town:</u></p> <p>Nketoana receives Bulk Electricity supply from Eskom at an NMD of 1.5 MVA for Mamafubedu Town and distributes it to about 401 Consumers. The current Demand for Mamafubedu Town is 1.3 MVA. Electricity supply in Mamfubedu is stable with some interruptions due to aged infrastructure and natural causes. No project has been implemented in Mamafubedu Town during the previous financial year 2015/2016.</p> <p>Mamafubedu town has 04 semi-skilled Personnel to repair and maintain the Electricity Infrastructure.</p> <p><u>Lindley and Ntha.</u></p> <p>Nketoana receives Bulk Electricity supply from Eskom at an NMD of 3.5 MVA for Lindley/ Ntha and distributes it to about 4185 Consumers. The current Demand for Lindley/ Ntha is 2.6 MVA. Electricity supply in Lindley and Ntha is stable with some interruptions due to aged infrastructure and natural causes. Switch gear at Lindley main Substation was upgraded during the previous financial year 2015/2016 and also a 150m, 50mm² XLPE cable was upgraded to 70mm² at Lindley Main Substation. A 400m, 11KV line was constructed in Ntha Ext. 5 and 64 households were connected in Ntha Ext. 5 during the Phase 3 Electrification project in 2015/2016.</p> <p>Lindley and Ntha has 07 semi-skilled Personnel to repair and maintain the Electricity Infrastructure.</p>
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	<ul style="list-style-type: none"> The following areas within Nketoana Municipality are supplied by Eskom and Nketoana Municipality only repair and maintain Street lights in those areas. Namely: Petsana Township, Mamafubedu Township, Arlington Town and Leratswana Township. All Rural areas within Nketoana jurisdiction are also supplied by Eskom.
<i>Areas without access to electricity or other forms of energy</i>	<ul style="list-style-type: none"> Petsana Ext.6 with 800 sites in Eskom distribution area. These sites need to be occupied for Eskom to electrify them. Petsana Informal Settlements with 2224 sites in Eskom distribution area, These Settlements need to be formalized for Eskom to electrify them.
<i>Areas with access to electricity and the reliability thereof</i>	<ul style="list-style-type: none"> Reitz town (1092), Mamafubedu town (401), Lindley town (296) and Ntha Township (3889). Electricity supply in is stable in all areas, however with some small interruptions due to aged infrastructure and natural causes.
<i>Other challenges</i>	<ul style="list-style-type: none"> No other challenges beside the above mentioned.
<i>Other issues:</i>	<ul style="list-style-type: none"> Attention also need to be paid to installation of Energy efficient street lighting, however the challenge is lack funding.

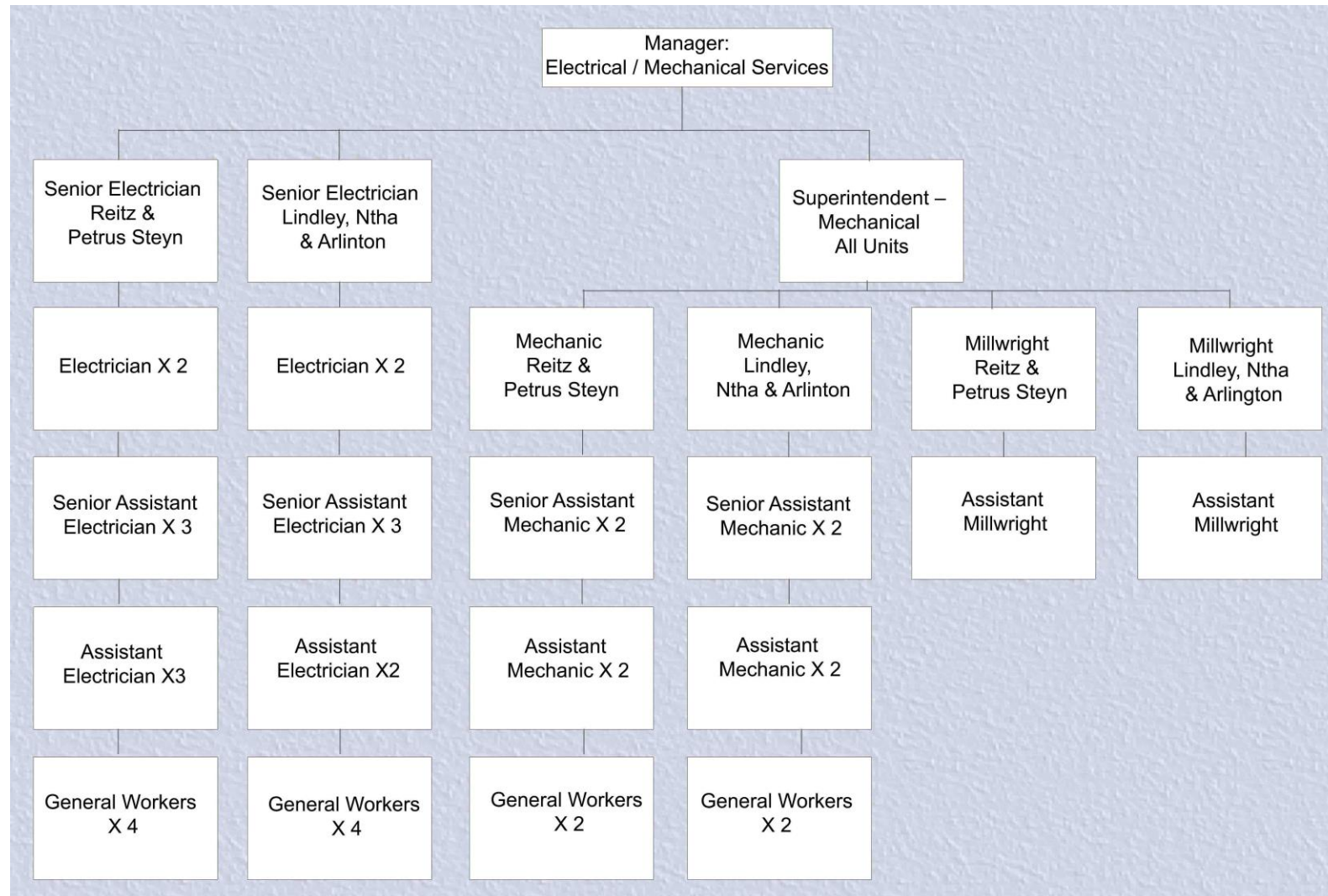
Figure / Table 3.31: Status Quo Analysis: Electricity

Energy source for lighting					Energy source for lighting (Values expressed as %)				
Ward	None	Electricity - Solar	Gas - Paraffin	Candles (not a valid option)	Ward	None	Electricity - Solar	Gas - Paraffin	Candles (not a valid option)
Ward 1	0	1,790	3	136	Ward 1	0.00%	92.79%	0.16%	7.05%
Ward 2	3	1,716	9	142	Ward 2	0.16%	91.76%	0.48%	7.59%
Ward 3	5	2,040	9	120	Ward 3	0.23%	93.84%	0.41%	5.52%
Ward 4	2	1,499	10	252	Ward 4	0.11%	85.03%	0.57%	14.29%
Ward 5	5	1,341	17	391	Ward 5	0.29%	76.45%	0.97%	22.29%
Ward 6	2	1,402	21	444	Ward 6	0.11%	75.01%	1.12%	23.76%
Ward 7	6	1,810	7	291	Ward 7	0.28%	85.62%	0.33%	13.77%
Ward 8	1	1,461	4	56	Ward 8	0.07%	95.99%	0.26%	3.68%
Ward 9	6	1,653	38	629	Ward 9	0.26%	71.07%	1.63%	27.04%

Energy source for cooking						Energy source for heating						
Ward	None	Electricity	Gas, paraffin and Solar	Wood, Coal and Animal dung	Other - Not applicable	Ward	None	Electricity - Solar	Gas - Paraffin	Wood - Coal	Candles (not a valid option) - Animal dung	Other - Not applicable
Ward 1	1	1,628	92	207	-	Ward 1	70	1,268	67	520	3	-
Ward 2	4	1,515	66	284	-	Ward 2	235	880	58	683	12	1
Ward 3	5	1,929	65	172	2	Ward 3	160	1,602	75	301	36	-
Ward 4	3	1,368	108	283	1	Ward 4	223	908	128	436	66	1
Ward 5	4	1,215	177	357	-	Ward 5	96	871	82	675	29	-
Ward 6	-	1,044	139	686	-	Ward 6	103	840	116	788	21	-
Ward 7	3	1,490	138	483	1	Ward 7	68	1,267	144	623	12	-
Ward 8	4	1,271	74	172	-	Ward 8	99	833	69	517	5	-
Ward 9	4	1,370	235	717	-	Ward 9	87	946	148	1,143	1	-

(Source: Statistics South Africa, Census, 2011)

Figure / Table 3.32: Organogram



IDP Priority 8:	Electricity Reticulation
Strategic Objective:	To ensure that 100% of households in the Nketoana municipal area have access to electricity by 2014
Outcomes:	<ul style="list-style-type: none"> 100% of households in formal areas with access to electricity (2013/14: 1,001 to be connected in Lindley) 11 high mast lights constructed Alternative energy solutions (long-term strategy): 2013/14 Feasibility study to explore alternative sources of energy
Vote:	Electricity
Sub-function:	Electricity Distribution

Actual performance against SDBIP targets set for the 2015/16 Financial Year and comparative assessment of targets with targets set for 2014/15 and 2016/17

Key Performance Area:	Basic Service Delivery
IDP Priority:	Electricity
Vote/Function:	Connection and Reticulation, Development and Planning

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
	To ensure that 100% of households in the Nketoana municipal area have access to electricity by 2014	Connection of 145 sites in Ntha in the new extension according to the requirements of the	Number of site connections to the electricity grid completed according to quality	New							145	64	145	ACHIEVED Only 64 Of 145 were done due to un-occupied sites	-	-	Number of site connections to the electricity grid completed	81

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
		contract documentation and project specifications	and quantity specifications														according to quality and quantity specifications	
		<i>Development of 1 Energy Master plan to include alternative energy solutions for the long-term for Nketoana</i>	1 Energy Master Plan developed and approved	New							1	1 Draft available	1	ACHIEVED The Energy masterplan is completed. Final Council approval is awaited	1	0	1 Energy Master Plan developed and approved.	1
	To ensure that 100% of households in the Nketoana municipal area have access to electricity by 2014	Installation of protection on Switch gear by installing 2 relays	Number of relays installed to protect Switch gear	New							2	2	2 relays	ACHIEVED The project was completed, 2 relays were installed. Completion certificate is submitted as evidence	-	-	-	-
		Replacement of 5 Oil Circuit Breakers with Vacuum Breakers	Number of Oil Circuit Breakers replaced with Vacuum Breakers	New							5	0	5	NOT ACHIEVED It could not be implemented due to financial constraints. The project should be funded out of own funds	-	-	-	-

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
		Replacement of 2 Auto-enclosures	Number of auto-enclosures replaced	New							2	0	2	NOT ACHIEVED It could not be implemented due to financial constraints. The project should be funded out of own funds	-	-	-	-
	Ntha Extension 5 Refurbishment of Lindley and Ntha MV Supply Lines by installing 2 auto-enclosures	Number of auto-enclosures installed on the Lindley and Ntha MV supply lines respectively	New								2	2	2	OVER ACHIEVEMENT Already completed in November 2015	-	-	-	-
		Replacement of 4 Oil Circuit Breakers with vacuum breakers and replaced 150m of 70mm ² XPLPE cable	Number of Oil Circuit Breakers replaced with vacuum breakers	New							4	4	4	OVER ACHIEVEMENT Already completed in November 2015	-	-	-	-
		Replacement of 2 auto-enclosures on 11Kv	Number of auto-enclosures on 11Kv	New							2	2	2	ACHIEVED Completed in February	-	-	-	-

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
		11Kv supply lines to Reitz main substation	supply lines replaced															
		Replace 1 11Kv supply line to Grain field Chickens	Number of auto-enclosures on 11Kv supply line to Grain field Chickens replaced	New							1	1	1	ACHIEVED Completed in February	-	-	-	-
		Repairs & Maintenance of electricity infrastructure according to the weekly plan	Frequency of repairs and maintenance	New	Daily according to weekly plan	Daily according to weekly plan	Daily according to weekly plan	Daily according to weekly plan	Daily according to weekly plan	Daily according to weekly plan	Daily according to weekly plan	Daily according to weekly plan	Daily according to weekly plan	ACHIEVED Reports monthly /weekly Job cards Log sheets submitted as evidence	Daily according to weekly plan	Daily according to weekly plan	Repairs & Maintenance of electricity infrastructure according to the weekly plan	Daily according to weekly plan



3.4 Waste Management

Figure / Table 3.33: Waste Removal: Nketoana, Thabo Mofutsanyana and RSA

Category	Nketoana	Refuse removal as a %: Nketoana	Thabo Mofutsanyana	Refuse removal as a %: Thabo Mofutsanyana	RSA	Refuse removal as a %: RSA
Removed by local authority/private company at least once a week	12506	72%	107125	49%	8972934	62%
Removed by local authority/private company less often	262	1%	2042	1%	218302	2%
Communal refuse dump	545	3%	8245	4%	271787	2%
Own refuse dump	3225	19%	86680	40%	4075939	28%
No rubbish disposal	682	4%	12254	5%	781999	5%
Other	97	1%	1539	1%	129201	1%

(Source: Census 2011)

Figure / Table 3.34: Waste Removal: 2001-2011

Census 2001 **Community Survey 2007** **Census 2011**

	Total house-holds	% of house-holds		Total house-holds	% of house-holds		Total house-holds	% of house-holds
Removed by local authority at least once a week	9591	64%		10533	63%		12506	72%
Removed by local authority less often	243	2%		316	2%		262	1%
Communal refuse dump	371	2%		100	1%		545	3%
Own refuse dump	3276	22%		4020	24%		3225	19%
No rubbish disposal	1557	10%		1729	10%		682	4%
Not applicable	3	0%		51	0%		97	1%
Total	15039			16748			17317	

(Source: StatsSA)

Figure / Table 3.35: Waste Removal according to category and per ward

	Removed by local authority/private company at least once a week	Removed by local authority/private company less often	Communal refuse dump	Own refuse dump	No rubbish disposal	Other
FS193: Nketoana	12506	262	545	3225	682	97
Ward 1	1481	1	82	321	34	8
Ward 2	1730	8	20	84	20	7
Ward 3	1929	8	-	149	84	4
Ward 4	1252	3	42	384	51	31
Ward 5	1204	17	10	448	46	27
Ward 6	805	14	74	794	177	5
Ward 7	1367	31	21	546	136	12
Ward 8	1339	94	1	32	56	-
Ward 9	1399	85	295	467	78	3

(Source: StatsSA)

Figure / Table 3.36: Waste Removal

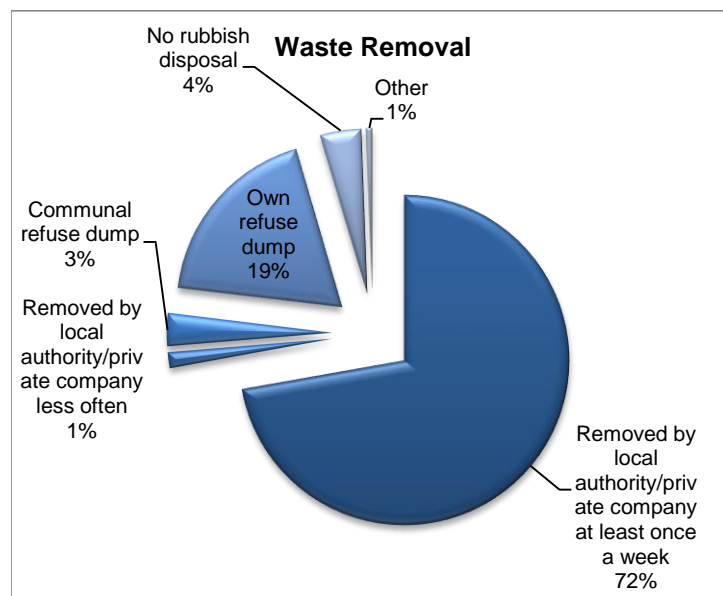


Figure / Table 3.37: Status Quo Analysis: Refuse Removal

Status Quo: ¹	Ward	RDP and above	Below RDP	No rubbish disposal	Other - Not applicable	Ward	RDP and above	Below RDP	No rubbish disposal	Other - Not applicable
	Ward 1	1,482	403	34	8	Ward 1	76.91%	20.91%	1.76%	0.42%
	Ward 2	1,738	104	20	7	Ward 2	92.99%	5.56%	1.07%	0.37%
	Ward 3	1,938	149	84	4	Ward 3	89.10%	6.85%	3.86%	0.18%
	Ward 4	1,255	426	51	31	Ward 4	71.19%	24.16%	2.89%	1.76%
	Ward 5	1,221	459	46	27	Ward 5	69.65%	26.18%	2.62%	1.54%
	Ward 6	819	868	177	5	Ward 6	43.82%	46.44%	9.47%	0.27%
	Ward 7	1,398	567	136	12	Ward 7	66.16%	26.83%	6.44%	0.57%
	Ward 8	1,433	33	56	0	Ward 8	94.15%	2.17%	3.68%	0.00%
	Ward 9	1,484	762	78	3	Ward 9	63.77%	32.75%	3.35%	0.13%
General:	Refuse removal services is classified as satisfactory in some areas, but not in all									
Residential sites:	All residential as well as businesses have access to refuse removal services. Residential areas have a service once a week. All the urban areas are serviced, with refuse removal on a weekly basis. Effective co-ordination of this service enhance the functioning of the thereof.									
Business sites:	Businesses are serviced twice per week if necessary.									
Resource consideration:	<ul style="list-style-type: none"> The equipment used for removal (mostly a tractor and trailer) are old and in poor condition. The procurement of compactor trucks enhanced the service and it is more effectively rendered now. In the budget provision is made for the procurement of a waste compactor. It will prolong the life of landfill sites. Resources are generally adequate to support current waste disposal requirements. 									
Indicate all areas or settlements without access in terms of the basic service standards and provide reasons for lack of service	<ul style="list-style-type: none"> All areas within the municipal jurisdiction have access to the waste collection system except for areas in the informal settlement as well as farm dwellers and rural areas 									
Recycling:	<ul style="list-style-type: none"> The number of recyclers that have access to the waste disposal site have been registered with the municipality. 									
Indicate other challenges that are not highlighted above	<ul style="list-style-type: none"> Illegal dumping takes place and it is a challenge to stop it. Most towns experience problems with the management of their waste disposal sites, and do not adhere to the requirements of the Department of Water Affairs. 									
Waste Disposal:	<ul style="list-style-type: none"> Three of the Waste disposal sites are licensed and there is a new waste disposal facility that is registered with MIG for implementation this financial year. 									

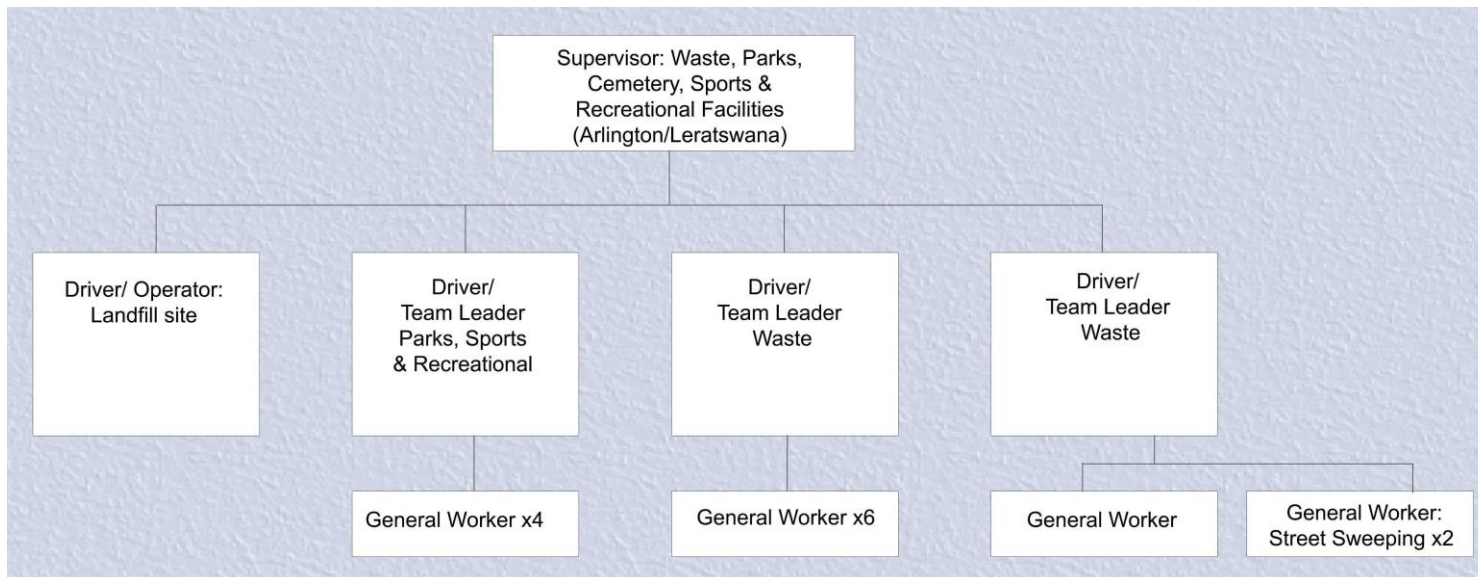
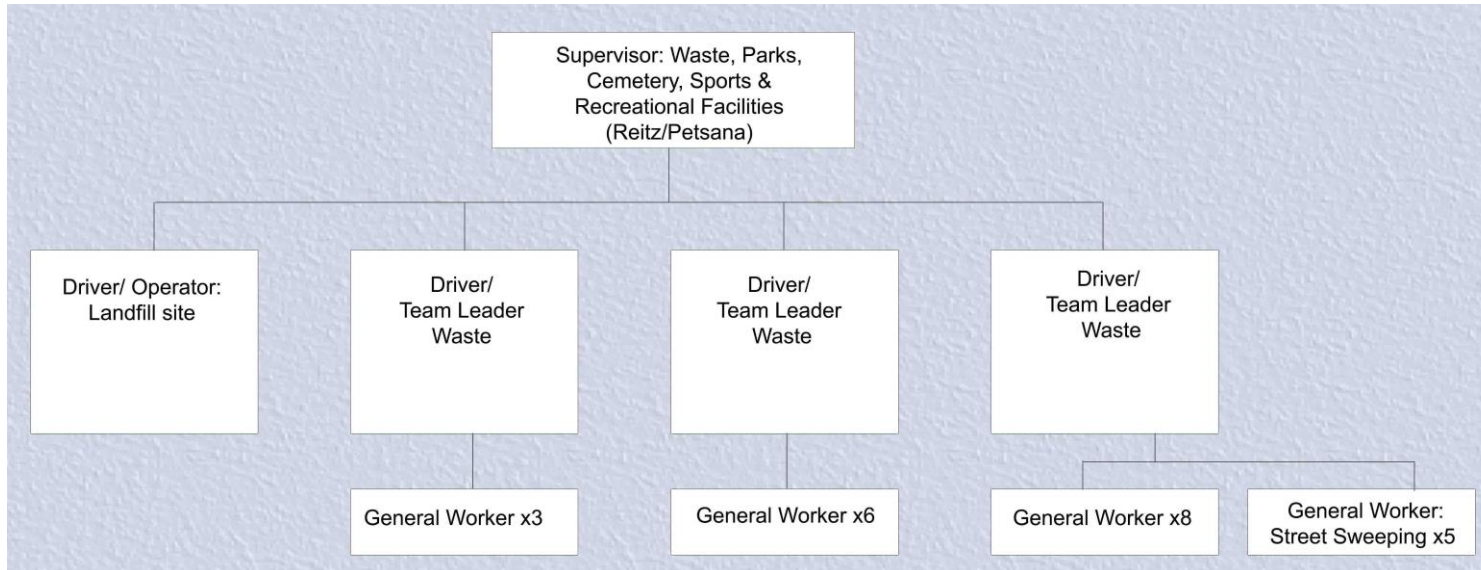
¹ Source of statistics: (StatsSA, 2011): Wards 1 and 2=Mamafubedu (Petrus Steyn); Ward 3 and 4 = Lindley/Ntha; Ward 5=Arlington/Leratswana and Ward 6-9 = Reitz and Petsana

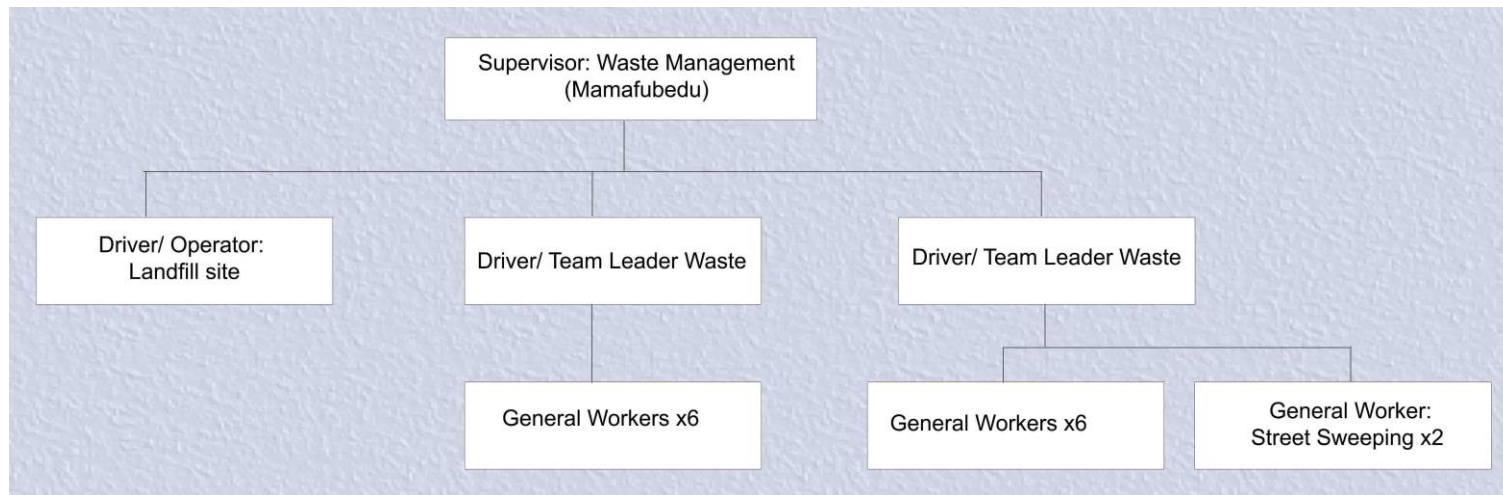
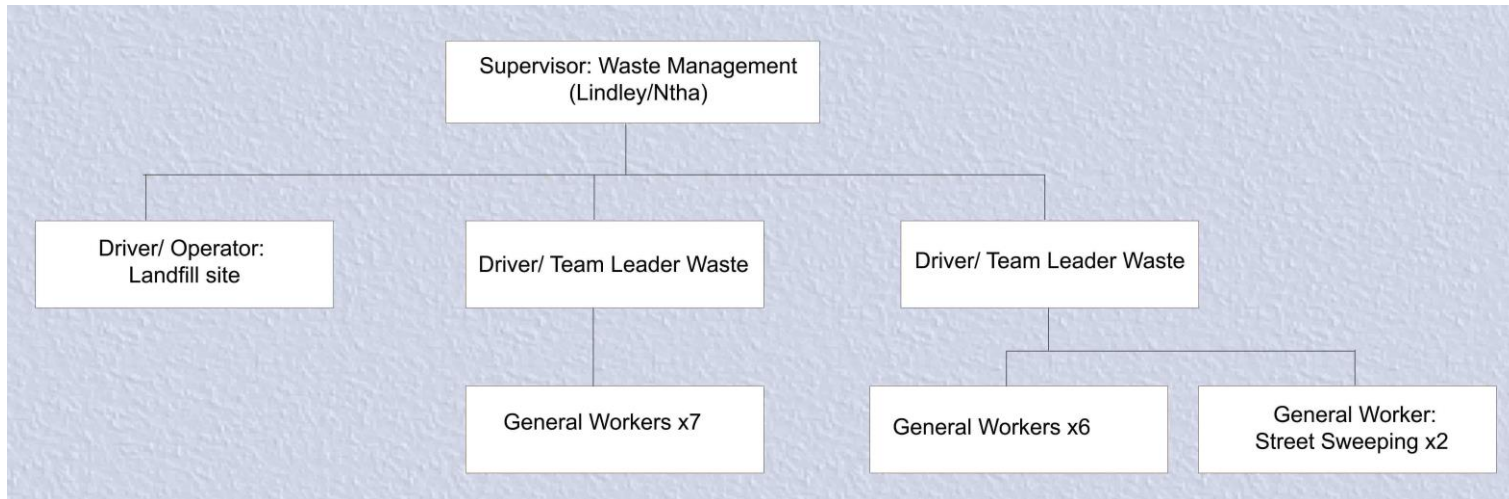
Figure / Table 3.38: Summary of Refuse Handling Capacity

Area	Number of landfill sites	Legal Status	Frequency of refuse removals	Equipment
Reitz/Petsana	1	Legal	Once per week	1 Compactor Truck 2 Tractors with Trailers
Mamafubedu (Petrus Steyn)	1	Not legal	Once per week	2 Tractors with Trailers
Lindley/ Ntha	1	Legal	Once per week	2 Tractors with trailers
Arlington/Leratswana	0 Waste is transferred to Lindley. A transfer station is under development		Once per week	1 Tractor with trailer

Figure / Table 3.39: Organogram







IDP Priority 7:	Refuse Removal
Strategic Objective:	To ensure that all households in urban areas have access to waste removal according to waste removal standards and good waste management in the municipal area
Outcomes:	<ul style="list-style-type: none"> Licensed and registered landfill sites Improving internal capacity for efficiency waste removal Mamafubedu dumping site closed and rehabilitated
Vote:	Waste Management
Sub-function:	Solid Waste

Actual performance against SDBIP targets set for the 2015/16 Financial Year and comparative assessment of targets with targets set for 2014/15 and 2016/17

Key Performance Area:	Basic Service Delivery
IDP Priority:	Refuse Removal
Vote/Function:	Waste Management
Directorate:	Community Services

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
	To ensure that all households in urban areas have access to waste	Purchasing of a waste compact or truck	Number of waste compact or trucks purchased	New			1	0					1	NOT ACHIEVED Due to financial constraints it could not be procured. However, the	1	0	To ensure that all households in urban	Purchasing of a waste compact

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
	removal according to waste removal standards and good waste management in the municipal area													aging equipment is posing a disruption of Services and this matter is included in the 2016/2017 budget as an urgent priority.			areas have access to waste removal according to waste removal standards and good waste management in the municipal area	or truck
	<i>Rehabilitation of Mamafube du disposal site</i>	<i>Rehabilitation of Mamafube du disposal site according to the requirements of the contract documentation and</i>	Number of dumping sites closed and rehabilitated	New					1				1	ACHIEVED The rehabilitation of the site was successfully completed. Awaiting document of approval and License that register the site as a closed Dumping site.	1	0		0

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
		project specifications																
	Clearing of illegal dumps	Clearing of illegal dumps on corners or open areas in residential areas.	Number of cleaning campaigns to clear illegal dumping.				1				1	5	2	ACHIEVED Several dumps were cleared as part of a special campaign. Photos of the work in progress as well as a report on job opportunities created are submitted as evidence	-	-	Clearing of illegal dumps on corners or open areas in residential areas	4
	To ensure that all households in urban areas have access to waste removal according to waste removal standards and good waste management in the municipal area Waste Removal	Weekly refuse removal to households in formal settlements Standard : Weekly at all residential sites and bi-weekly at business sites (14,000 sites in all)	Frequency of waste disposal at residential and business sites	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	ACHIEVED. The removal is taking place according to a weekly schedule. Job cards are prepared and signed off by supervisors. All the actions are reported on in the monthly report that serves in the Section 79 meetings. Copies of the Schedule, job cards and monthly reports are submitted as evidence	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	Weekly at residential sites and bi-weekly at business sites (14,000 sites)	To ensure that all households in urban areas have access to waste removal according to waste removal stand	Weekly at residential sites and bi-weekly at business sites (14,000 sites)

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
																	ards and good waste management in the municipal area Waste Removal	
	To ensure that all households in urban areas have access to waste removal according to waste removal standards and good waste management in the municipal area	90 liters refuse bins distributed to households in urban areas	Number of refuse bins distributed in Urban Areas	14,000	2,000 (16,000 in total)	0							2,000 (16,000 in total)	NOT ACHIEVED. The financial position of the municipality did not recovered enough to enable the procurement of dustbins.	2000	0	To ensure that all households in urban areas have access to waste removal according to waste removal standards and good	2000 dust bins

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
																	waste management in the municipal area	

IDP Priority 7:	Refuse Removal
Strategic Objective:	To ensure that all households in urban areas have access to waste removal according to waste removal standards and good waste management in the municipal area
Outcomes:	100% of households in formal areas with access to refuse removal services at basic acceptable national standards
Vote:	Waste Management
Sub-function:	Solid Waste

Actual performance against SDBIP targets set for the 2015/16 Financial Year and comparative assessment of targets with targets set for 2014/15 and 2016/17

Key Performance Area:	Basic Service Delivery
IDP Priority:	Cemeteries and Parks
Vote/Function:	Community and Social Services

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
	To ensure effective management of graveyard s and cemeterie s in the Nketoana municipal area	Routine operation and maintenance of parks and cemeteries Standard : Daily maintenance of parks according to operational schedule s. Not all parks are serviced daily, but the maintenance is done according to the maintenance schedule	Frequency of maintenance at parks, according to operational schedule	Daily	Daily, according to schedule	Daily, according to schedule	Daily, according to schedule	Daily, according to schedule	Daily, according to schedule	Daily, according to schedule	Daily, according to schedule	Daily, according to schedule	Daily, according to schedule	ACHIEVED Daily, according to schedule. Monthly reports are presented as evidence	Daily, according to schedule	Daily, according to schedule	To ensure effective management of grave yards and cemeteries in the Nketoana municipal area	Daily, according to schedule
		Purchasing of 1 TLBs	Number of TLBs purchased	New							1	0	1	NOT ACHIEVED Due to financial constraints it could not be procured. However, the aging equipment is	1	0	Purchasing of 1 TLBs	1

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
														posing a disruption of Services and this matter is included in the 2016/2017 budget as an urgent priority. There is also negotiations in process to arrange special instalments for the purchase.				
	To ensure effective management of graveyards and cemeteries in the Nketoana municipal area	Upgrading of parks: <ul style="list-style-type: none"> Planting of trees Grassing Installation of benches, boulders and seating Play ground 	Number of parks upgraded	0							1	1	1 Ntha	ACHIEVED The project is successfully implemented and almost done.	1 Petsana 1 Ntha 1 Leratswana	0	To ensure effective management of graveyards and cemeteries in the Nketoana municipal area	1

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
		nd equipment • Outdoor gym equipment Phase 1: Ntha																
	Computerization of grave records	Procure software, install and implement	Number of programs procured	New							1	0	1	NOT ACHIEVED Due to financial constraints no procurement took place. The matter is included in the coming financial year.	1	0	Computerization of grave records	1



3.5 Housing

2.1 Analysis of Access to Basic Services: 2001-2011

Figure / Table 3.40: Analysis of Access to Dwellings: 2001, 2007, 2011

	Census 2001	CS 2007	Census 2011
House or brick structure on a separate stand or yard	55.3%	56.4%	71.3%
Traditional dwelling /hut / structure made of traditional materials	16.1%	5.9%	3.8%
Flat in block of flats	0.3%	0.6%	0.7%
Town / cluster / semi-detached house (simplex: duplex: triplex)	0.4%	0.4%	0.1%
House / flat / room in back yard	1.1%	1.4%	0.9%
Informal dwelling/s shack in backyard	5.2%	6.7%	13.6%
Informal dwelling/s shack NOT in backyard e.g. in an informal / squatter settlement	21.0%	25.2%	8.8%
Room / flatlet not in back yard but on a shared property	0.6%	1.8%	0.1%
Caravan or tent	0.1%	-	0.1%
Workers' hostel(bed / room)	-	0.2%	0.0%
Other	-	1.4%	0.6%
Total	100.0%	100.0%	100.0%

(Source: StatsSA, 2001, 2007, 2011)



Figure / Table 3.41: Service Delivery trends (Basic Services)

	Census 2001		Community Survey 2007		Census 2011	
	Total dwellings	Type of dwelling as %	Total dwellings	Type of dwelling as %	Total dwelling	Type of dwelling as %
House or brick structure on a separate stand or yard	8240	55%	9448	56%	12355	71%
Traditional dwelling/hut/structure made of traditional materials	2400	16%	983	6%	655	4%
Flat in block of flats	43	0%	100	1%	112	1%
Town/cluster/semi-detached house (simplex: duplex: triplex)	53	0%	61	0%	11	0%
Semi-detached house					50	0%
Townhouse (semi-detached house in a complex)					18	0%
House/flat/room in back yard	167	1%	236	1%	163	1
Informal dwelling/shack in back yard	771	5%	1127	7%	2351	14
Informal dwelling/shack NOT in back yard e.g. in an informal/squatter settlement	3123	21%	4214	25%	1528	9
Room/flatlet not in back yard but on a shared property	82	1%	303	25%	25	0%
Caravan or tent	22	0%	0	0%	12	0%
Private ship/boat	3	0%	0	0%		
Workers' hostel (bed/room)			38	0%		
Tourist hotel/motel	0	0%				
Hospital/medical facility/clinic/frail care centre	4	0%				
Childcare institution/orphanage	0	0%				
Home for the disabled	0	0%				
Boarding school hostel	3	0%				
Initiation school	0	0%				
Convert/monastery/religious retreat	0	0%				
Defence force barracks/camp/ship in harbour	3	0%				
Prison/correctional institution/police cells	4	0%				
Community or church hall	0	0%				
Refugee camp/shelter for the homeless	0	0%				
Homeless	3	0%				
Other	0	0%	239	2%	37	0%
Not applicable	120	1%				
Total	15039		16748		17317	

(Source: StatsSA)

Figure / Table 3.42: Dwelling according to Wards in Nketoana

	House or brick/concrete block structure on a separate stand or yard or on a farm	Traditional dwelling/hut/structure made of traditional materials	Flat or apartment in a block of flats	Cluster house in complex	Townhouse (semi-detached house in a complex)	Semi-detached house	House/flat/room in backyard	Informal dwelling (shack; in backyard)	Informal dwelling (shack; not in backyard; e.g. in an informal/settlement or on a farm)	Room/flatlet on a property or larger dwelling/servants quarters/granny flat	Caravan/tent	Other
FS193: Nketoana	12355	655	112	11	18	50	163	2351	1528	25	12	37
Ward 1	1661	19	9	-	1	1	13	172	41	-	7	2
Ward 2	1070	11	24	4	2	13	6	359	377	-	-	3
Ward 3	1478	48	12	-	4	16	8	434	164	-	1	7
Ward 4	1212	118	9	6	1	4	2	343	55	6	-	7
Ward 5	1327	104	6	-	1	4	11	182	113	2	-	4
Ward 6	1363	163	23	1	1	3	23	187	89	7	2	8
Ward 7	1713	178	11	-	6	7	55	73	56	11	1	4
Ward 8	1264	7	7	-	-	-	18	189	35	-	-	1
Ward 9	1267	7	12	-	1	3	27	411	597	-	1	-

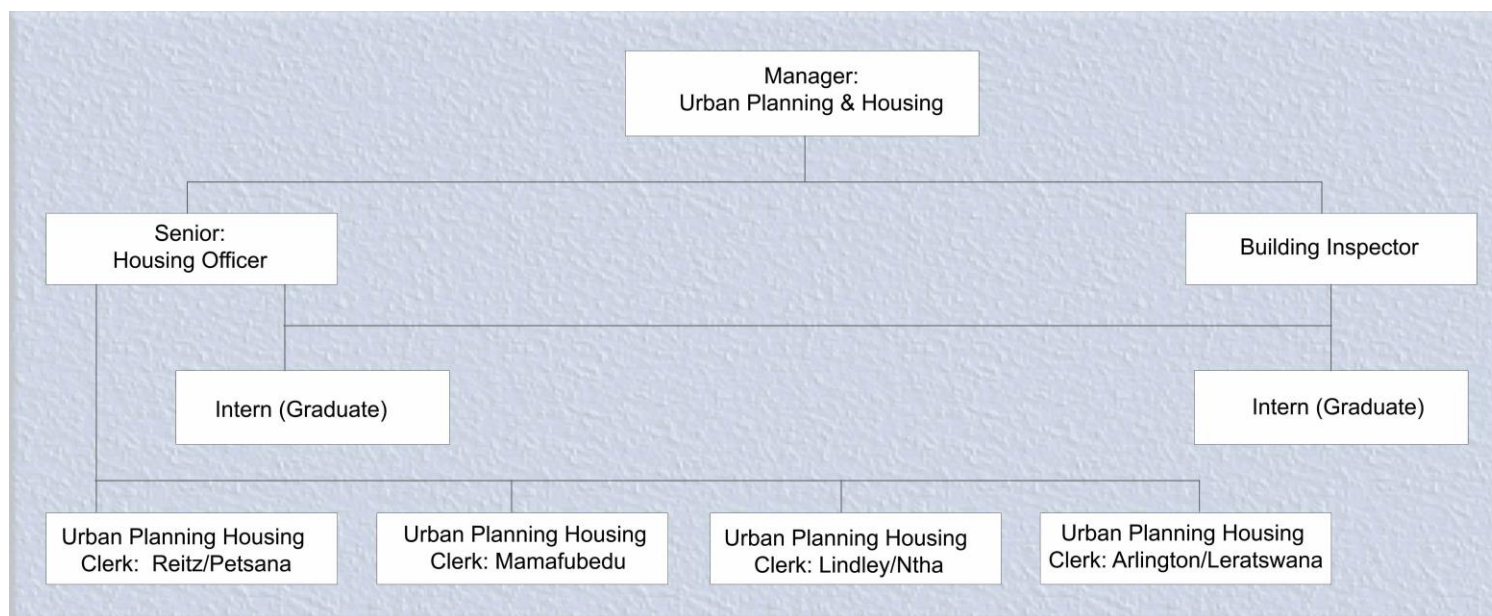
(Source: StatsSA)

Figure / Table 3.43: Housing – Census 2011

Category	Unit of measurement	Y2001	Y2011
Persons	Number of Persons	61950	60324
Households	Number of households	15039	17318
Average household size	Number of persons/house	4.11	3.48
Female headed households	Percentage / households	40% (5975 of 15039)	41% (7056 of 17318 households)
Formal dwellings	Percentage / households	73% (10953 of 15039)	77% (13390 of 17318)
Informal dwellings	Percentage/ households	27% (4086 of 15039)	23% (3928 of 17318)

(Source: StatsSA)

Figure / Table 3.44: Organogram



IDP Priority 4:	Urban Planning
Strategic Objective:	To ensure an effective Urban Planning that will promote proper spatial planning to address sustainable development and social cohesion
Outcomes:	<ul style="list-style-type: none"> Review the SDF to ensure credibility that will be approved by Council by the closing of the 2014/15 financial year Compilation of a housing sector plan that will be approved by Council by the closing of the 2014/15 financial year New township establishment[s] according to the SDF Consolidation of erven Housing demand database
Vote:	Planning and Development
Sub-function:	Not Required

Actual performance against SDBIP targets set for the 2015/16 Financial Year and comparative assessment of targets with targets set for 2014/15 and 2016/17

Key Performance Area:	Basic Service Delivery
IDP Priority:	Urban Planning
Vote/Function:	Planning and Development
Directorate:	Community Services

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
	To ensure effective Urban Planning that will promote proper spatial	Review of the SDF to ensure compliance with SPLUMA	Number of compliant SDF's developed and approved	1 SDF Non-compliant							1	0	1 compliant SDF	NOT ACHIEVED. The review of the SDF that should have been done by the Department of Rural	1	0	To ensure effective Urban Planning that will	1

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Targ et	Actu al	Object ive	Tar get
	planning to address sustainable development and social cohesion													Development did not realized. Their funding for the project was recalled by National Treasury. However, Provincial COGTA already indicated that they will be able to assist because they have capacity to do it in house. It is envisaged that the SDF will be finalized by December 2016			promote proper spatial planning to address sustainable development and social cohesion	
		Compilation of a housing sector plan that complies with the Housing Code	Number of housing sector plans approved .Mashalaba has been appointed to develop the municipal Housing sector plan.								1	1	1	ACHIEVED First Draft is available & awaiting the second draft that will be taken for public participation then finally be tabled to council for approval	1	0	Review of the housing sector plan that complies with the Housing Code	1 approved plan
		New Township	Number of township	New	1 report	1	1 report	1		0	1 Report	0	1	NOT ACHIEVED.	4	0	New Township	1 Township

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
		establishment at Port Arlington (Division of farm Port Arlington and the establishment of a new township on the division) Performance Level Agreement: Township approval Survey – General approval Environmental Impact Assessment Opening of Township Register	establishments established. Progress reports per quarter towards township establishment		Basic Assessment report to COGTA		Approval from COGTA		1 report Pegging of Sites		Registration Township Register		4 reports	The comments from all department are still awaited. No pegging of sites can be done before all comments are not received.			establishment at Port Arlington (Division of farm Port Arlington and the establishment of a new township on the division) Performance Level Agreement: Township approval Survey – General approval Environmental	ip register opened

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Targ et	Actu al	Object ive	Tar get
																	Impact Assessment Opening of Township Register	
		Subdivision of erf 799 In Ntha Lindley to accommodate church and crèches sites	Number of church sites and number of crèche sites	New							3 Church sites	0	3 Church sites	NOT ACHIEVED Due Financial constraints no service provider was appointed. As this was identified as an urgent need, the matter will be included in the next financial year	3	0	Subdivision of erf 799 In Ntha Lindley to accommodate church and crèche sites	3 Churches
			Number of church sites and number of crèche sites	New							3 Crèches sites	0	3 Crèches sites	NOT ACHIEVED Due Financial constraints no service provider was appointed. As this was identified as an urgent need, the matter will be included in the next financial year	3	00	Subdivision of erf 799 In Ntha Lindley to accommodate church and crèche sites	3 crèches
		Subdivision of Townland for	Number of portions of land	New							1	0	1	ACHIEVED Due to Financial constraints it	1	0	Subdivision of Townl	1 sub divi

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
		medicinal herbs plantation in Reitz	subdivided											could not be done by the municipality. However the applicant agreed to carry the cost of the Subdivision The matter will be included in the next financial year			and for medicinal herbs plantation in Reitz	sion
		Consolidation of 14 erven in Mamafubedu	Number of erven consolidated (new numbers will be allocated)	Currently 28 erven; there should only be 14					28, consolidated into 14	0			28, consolidated into 14	NOT ACHIEVED Due to financial constraints the service provider LMV was not paid yet and refuse to complete the work until the outstanding amount is paid. The matter will be carried over to the next financial year.	28 consolidated into 14	0	Consolidation of 14 erven in Mamafubedu	28, consolidated into 14
		Housing demand database in all four towns	Number of housing demand databases (Database= Lists of beneficiaries who are applying for	New			1 per unit = 4	4					1 per unit = 4	ACHIEVED Housing database compiled per unit. Document electronic available. Copy of the database submitted as evidence	4	4	Review of Housing demand database in all four towns	1 per unit = 4

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
			housing subsidies) Housing demand database has been developed and both soft & hard copies are available															
		Audit of site allocation allocated to beneficiaries that were on the database of the new township establishments Standard: The audit dealt with the question whether sites were correctly allocated to registered	Number of audits reports per new township establishment	New							1 report per new township establishment (= 3)	0	1 per new township establishment (= 3)	NOT ACHIEVED The Internal Audit Section must assist with this audit. Due to understaffing of the unit, it was not done yet. The action will be included in the 2016/2017 Annual Audit Plan and then executed.	1 report per new township establishment (= 3)	0	Audit of site allocation allocated to beneficiaries that were on the database of the new township establishments Standard: The audit dealt with the question	1 report per township

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
		beneficiaries															whether sites were correctly allocated to registered beneficiaries	

Actual performance against SDBIP targets set for the 2015/16 Financial Year and comparative assessment of targets with targets set for 2014/15 and 2016/17

Key Performance Area:	Basic Service Delivery
IDP Priority:	Urban Planning
Vote/Function:	Planning and Development

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
	To ensure effective implementation of the Spatial Planning	Establishment and operation alization of a Municipal	Number of Municipal Tribunals established	New	1	1							1	ACHIEVED	-	-	-	0

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
	and Land Use Management Act (SPLUMA)	Tribunal consisting of 8 members																
			Number of delegations approved	New	1								1	ACHIEVED	-	-	-	0
			Number of members and officials trained	New	8	8							8	ACHIEVED	-	-	Number of members and officials trained	8
		Finalization of the tribunal governance framework	Number of by-laws approved	New	1	1							1	ACHIEVED	-	-	-	0
			Number of tariff structures, with budget approved	New	1	1							1	ACHIEVED	-	-	Number of tariff structures, with budget approved	1
			Number of budgets for the tribunal finalized	New	1	1							1	ACHIEVED For the 2015/2017 financial year the Tribunal was funded out	-	-	Number of budgets for the	1

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
														of professional fees in Community Services. For the 2016/2017 there is a separate budget allocated for the Tribunal			tribunal finalized	

Component B: Roads and Transport

3.6 Roads, Transport and Stormwater

Figure / Table 3.45: Status Quo Analysis: Roads & Storm water

<i>Status Quo:</i>	Refer to Tables below
<i>General, Roads:</i>	<ul style="list-style-type: none"> • The condition of roads and storm water in Nketoana needs urgent attention. Although quite a significant part of roads in the towns are tar roads, the condition is deteriorating. • Paved roads were constructed in Petsana, Mamafubedu, Ntha and Leratswana. It was an immense improvement and made all areas more accessible.
<i>Storm water:</i>	<ul style="list-style-type: none"> • Storm water management is still a challenge to the municipality. The gradient of the areas are is of such a nature that considerable damage can be caused by rain water. The paving of roads prevent damage. It is nevertheless still necessary to improve existing stormwater channels and construct more in each area; especially those areas traditional developed urban areas. • The following stormwater challenges were noted in the Roads and Storm water Masterplan (Nektoana Local Municipality, Roads and Stormwater Masterplan, 2011): • Construction of sewer manholes in stormwater channels and hence increasing the incidence of Stormwater Ingress into the sewer systems which studies have indicated that has adverse effects on the capacity of the wastewater treatment works. Standards have to be developed such that the service providers work in accordance with the best practice procedures. • Inadequate sizing of the critical hydraulic structures in the various streams in all the towns which lead to serious flooding • The stormwater channels are seemingly constructed with grades that are lower than the stipulated minimum grades and hence the high incidence of the development of water puddles in the open stormwater drains. In addition, this problem also manifests itself as severe sedimentation/silting with the problematic areas leading to large quantities of sand being deposited in the affected areas • Major stormwater challenges are experienced in Ntha. To alleviate this problem, a new gabion-lined stormwater channel is required. • Inadequate sizing of culverts that threaten to wash away the newly constructed roads.
<i>Status of arterial roads / internal roads</i>	<ul style="list-style-type: none"> • Access roads are priorities • Streets and storm water network need to be better maintained • Ageing tar roads become not accessible

- There is a need to properly maintain gravel roads; but the huge backlog in this regard remains a problem
- Some roads are used by heavy vehicles – attention must be given to allocate specific roads to heavy vehicles to keep them out of the CBD areas of the main towns.



Figure / Table 3.46: Road Length and Road Category Summary

Road Length Summary					
Settlement	Tarred(m)	Paved(m)	Gravel(m)	Dirt(m)	Total(m)
Petsana	8,947	2,686	40,703	0	52,336
Reitz	39,918	0	1,283	0	38,201
Mamafubedu	1,872	5,756	25,414	2,326	35,369
Petrus Steyn	8,320	0	9,136	1,420	18,876
Ntha	559	6,169	29,015	0	35,744
Lindley	4,682	0	12,266	0	16,948
Leratswana	715	3,408	10,214	0	14,337
Arlington	3,158	0	1,853	124	5,134

Road Category Summary				
Category	Road Type	Length (km)	Percentage	Percentage
UA	Gravel	0.0	0.00%	11.10%
	Paved	0.0	0.00%	
	Tarred	4,254.9	100.00%	
	Dirt	0.0	0.00%	
	Total	4,254.9		
UB	Gravel	0.0	0.00%	10.00%
	Paved	0.0	0.00%	
	Tarred	3,804.5	100.00%	
	Dirt	0.0	0.00%	
	Total	3,804.5		
UC	Gravel	0.0	0.00%	10.70%
	Paved	0.0	0.00%	
	Tarred	4,093.1	100.00%	
	Dirt	0.0	0.00%	
	Total	4,093.1		
UD	Gravel	1,282.9	4.90%	68.20%
	Paved	0.0	0.00%	
	Tarred	24,765.5	95.10%	
	Dirt	0.0	0.00%	
	Total	26,048.5	0.00%	

(Source: Nketoana Local Municipality, Roads and Stormwater Masterplan, 2011)

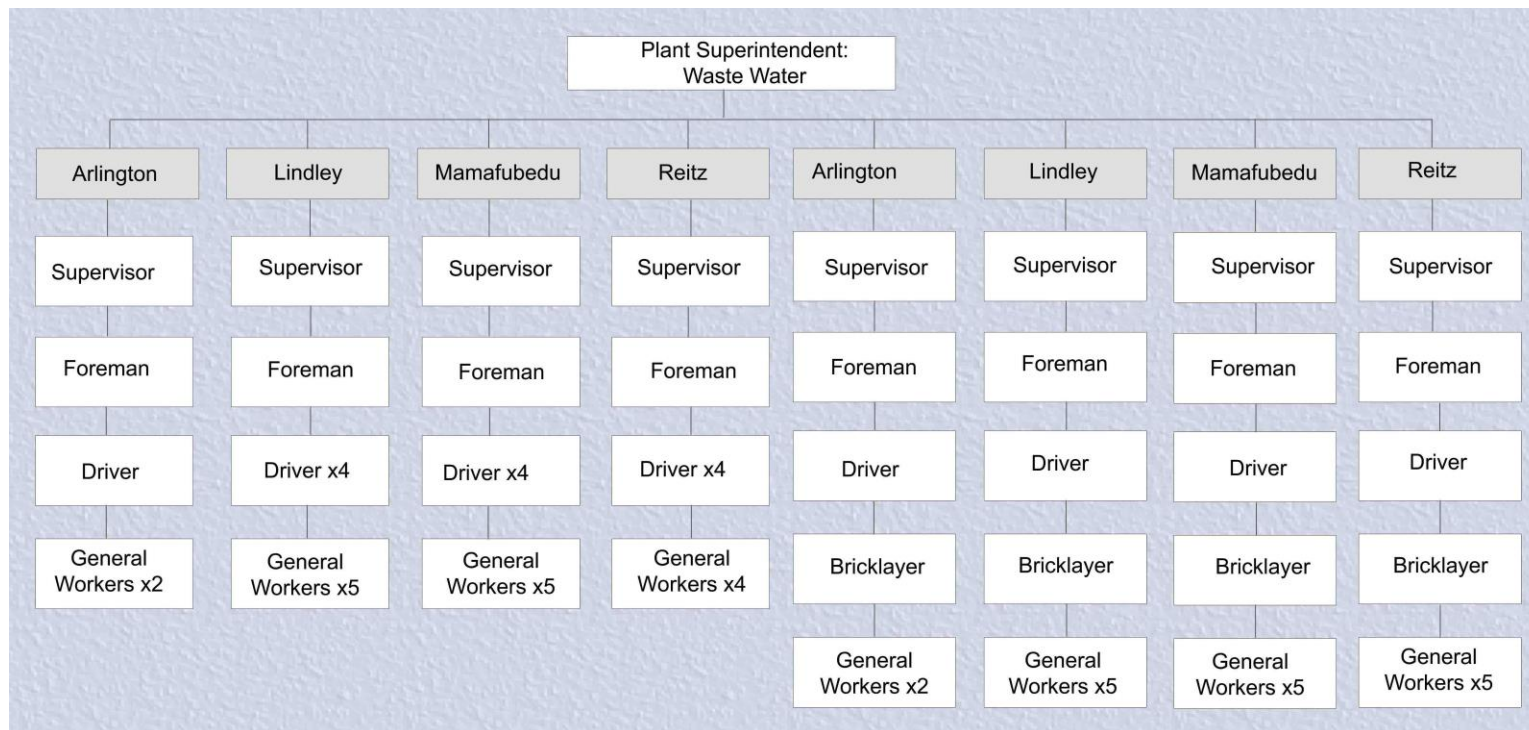
Figure / Table 3.47: Transportation Infrastructure (Nketoana SDF, 2010-2011)

Infrastructure	Reitz / Petsana	Mamafubedu (Petrus Steyn)	Arlington / Leratswana	Lindley / Ntha
Roads	<p>A variety of road networks links Reitz-Petsana with the surrounding area and other urban centers.</p> <p>The provincial road R26 links Reitz with Bethlehem to the</p>	<p>The provincial road R57 between Reitz and Heilbron are also the main access to Mamafubedu (Petrus Steyn).</p> <p>Mamafubedu (Petrus Steyn) is linked to Lindley and Frankfort</p>	<p>The provincial road P40/1 between Lindley and Senekal are also the main access to Arlington.</p> <p>Arlington-Leratswana is developed in a linear form and</p>	<p>The R707 between Arlington and Mamafubedu (Petrus Steyn) is the main road link and separates Lindley and Ntha.</p>

Infrastructure	Reitz / Petsana	Mamafubedu (Petrus Steyn)	Arlington / Leratswana	Lindley / Ntha
	<p>southwest and with Frankfort to the northeast.</p> <p>The provincial road R57 links Reitz with Mamafubedu (Petrus Steyn) to the north and Kestell to the south.</p> <p>Reitz is linked to Vrede with the secondary road S/589 and Warden with S/74.</p>	<p>with the road R707 and to Edenville with the secondary road S/66.</p>	<p>must receive careful future planning.</p>	<p>The P19/1 links Lindley with Steynsrus and Bethlehem and the S/192 links Lindley with Reitz.</p>
Rail	<p>The Reitz-Petsana station services the main railway line linking Gauteng and the Eastern Free State, used predominantly for the transportation of goods, especially agricultural goods. The station is situated next to the industrial area.</p>	<p>The railway station is accessible from both Mamafubedu (Petrus Steyn) and has access to the industrial area. It is situated on the line linking Heilbron and Lindley. The line is mainly used for goods transportation, especially to and from the grain silos. The railway station buildings are worn down and vandalized.</p>	<p>The railway line, that links Bethlehem and Steynsrus, runs through Arlington and was responsible for the establishment of Arlington and still poses economic developmental potential.</p>	<p>The railway line between Arlington and Mamafubedu (Petrus Steyn) runs just south of Lindley.</p> <p>The station is dormant, but should be re-opened and upgraded to promote economic development.</p>
Air	<p>There is no airport, but there is an airstrip north of the Reitz-Petsana urban area. It is principally used by crop-sprayers. The runway is not tarred.</p>	<p>There are no airfields or landing strips.</p>	<p>There are no airfields or landing strips.</p>	<p>There is an informal landing strip.</p>
Public Transport	<p>People from Petsana that works in Reitz walk there, due to the close proximity. Alternatively, there is taxi's servicing Petsana.</p>	<p>Taxis provide the predominant public transportation to especially the people of Mamafubedu.</p>	<p>Taxis provide the predominant public transportation. The taxi rank needs proper development and upgrading.</p>	<p>There is a need for a proper taxi rank.</p>

(Source: Nketoana SDF, 2010,11)

Figure / Table 3.48: Organogram



IDP Priority 3:	Municipal Roads and Transport
Strategic Objective:	To ensure that internal roads in the Nketoana municipal area are maintained and/or upgraded to facilitate economic and social activity required for the sustainable development of the municipality; considering the capacity limitations facing the Municipality
Outcomes:	<ul style="list-style-type: none"> Upgrading of 3km of internal roads in Ntha during the 2013/14 financial year Upgrading of 3km of internal roads in Mamafubedu during the 2013/14 financial year
Vote:	Road Transport
Sub-function:	Roads

Actual performance against SDBIP targets set for the 2015/16 Financial Year and comparative assessment of targets with targets set for 2014/15 and 2016/17

Key Performance Area:	Basic Service Delivery
IDP Priority:	Roads & Storm water Management
Vote/Function:	Roads and Storm water

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
	To ensure that internal roads in the Nketoana municipal area are maintained and/or upgraded to facilitate economic	Review of the Roads and Infrastructure Master Plan	Number of Plans reviewed	1							1	1 Draft available	1	ACHIEVED The plan was developed and a draft is available. Final approval by Council is awaited.	1	0	Review of the Roads and Infrastructure Master Plan	1

Ref Number	Key Performance Indicator			Baseline	Targets								Annual	Performance Feedback Evidence Reason for deviation Remedial Action	2014/2015		2016/2017	
	Objective	Indicator	Unit of Measurement		July – Sept 2015	Actual	Oct – Dec 2015	Actual	Jan – March 2016	Actual	April – June 2016	Actual			Target	Actual	Objective	Target
	and social activity required for the sustainable development of the municipality; considering the capacity limitations facing the Municipality																	
		Upgrading of Roads in Petsana by paving 3 km. Phase 1 : 1km for the 2014/2015 financial year Phase 2: 2.2 km for the 2015/2016 financial year	Km completed by the end of the financial year	1km			2,2km	3.6km					2,2km	ACHIEVED The project was completed Photos are submitted as evidence	1km	1km	-	-