



**DISASTER REPORT**  
**MATJHABENG LOCAL MUNICIPALITY**  
**APRIL 2019**

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## **1. Introduction**

Matjhabeng Local Municipality was hit hard by heavy rains during the weekend of the 19<sup>th</sup>-23<sup>rd</sup> April 2019. These rains were both heavy and consistent with sporadic thunder throughout mainly the three days with sparse lighting happening mostly during the night.

The main areas that were affected were largely in the central area affecting Thabong, Bronville and Mandela Park to a larger extent and this report is therefore confined to these areas and the majority of activities happened within the first 15-20 days of the disaster having taken place.

## **2. BACKGROUND**

Matjhabeng Local Municipality came in to existence as result of demarcation of municipalities in 2000. The Municipality is situated in the Lejweleputswa District Municipality in the Free State. It is bound by the Nala Local Municipality to the north, Masilonyana Local Municipality to the south, Tswelopele Local Municipality to the east and Moqhaka Local Municipality to the west. Matjhabeng represents the hub of mining activity in the Free State province.

Matjhabeng Local Municipality (MLM) is a category B Municipality encapsulates an area of 514.4 km<sup>2</sup> consisting of Welkom (Thabong), Odendaalsrus (Kutlwanong), Allanridge (Nyakallong), Hennenman (Phomolong), Virginia (Meloding) and Ventersburg (Mmamahabane).

## **3. STATUS OF INFRASTRUCTURE DAMAGE CAUSED BY FLOODING**

### **3.1. Road network**

The R732 road was badly affected and this is the road that was submerged in water during the disaster. They also depict uneven level of the road entrance to Bronville which must receive major upgrading to take into account the level of the internal flood line. This section of the road requires major financial injections to be aligned to the R732 in anticipation of future flood occurrences.

The following is a summary of other internal roads that were affected by flooding during the period:

<b>WARD 11 ROADS AND STORM WATER</b>			
<b>Area</b>	<b>Site</b>	<b>Ext</b>	<b>Cost estimate</b>
Bronville	Planeet Street	50m <sup>2</sup> of potholes created 450 m of roads require resealing	R1m
	Water boer street	400m <sup>2</sup> for patching	R200,000.00
	Waterboer and Mini Streets	Resealing needed as roads were damaged	R240,000.00
	Mostert canal	Increase capacity by lining it with concrete. This is due to the fact that other areas got affected as the canal lost water during the period.	R70m

<b>WARD 23 ROADS AND STORM WATER</b>			
<b>Area</b>	<b>Site</b>	<b>Ext</b>	<b>Cost estimate</b>
Hanipark	Thb 784	423m	R1,3 m
	Thb 937	765m	

<b>WARD 24 ROADS AND STORM WATER</b>			
<b>Area</b>	<b>Site</b>	<b>Ext</b>	<b>Cost estimate</b>
Hanipark	Thb 704	1005m	R2, 500,000.00
	Thb705		
	Thb706		
	Thb708		
	Thb 709		

<b>WARD 16 ROADS AND STORM WATER</b>			
<b>Area</b>	<b>Site</b>	<b>Ext</b>	<b>Cost estimate</b>
Thabong	Thb242	420m	R7,500.00

WARD 29 ROADS AND STORM WATER			
Area	Site	Ext	Cost estimate
Thabong	Mxi	Storm water non-functional	R4m

WARD 25 ROADS AND STORM WATER			
Area	Site	Ext	Cost estimate
Thabong	Ndaki road next to stand no. 39263	Repairing and laying of new storm water pipes for future	R1,5m
<b>TOTAL</b>			<b>R96,318, 530,000</b>

### 3.2. Estimated electricity costs after the disaster at these areas

Annexure A					
Description of Incident	Replace 638 Electrical Connection that were damaged during flooding disaster				
Comments	Due to Electrical Infrastructure being submersed under flood water the following stands with existing underground electrical infrastructure will be required to be replaced with an overhead line installation to ensure the integrity of electrical distribution network of the Bronville Area.				
Item no	Item Description	Unit	Quantity	Cost per Unit	Total Excluding vat
1	Replacement of existing underground electrical connection as to DOE standards with overhead line infrastructure.	per stand	638	R 17,272.00	R 11,019,536.00
	<b>Sub Total</b>				<b>R 11,019,536.00</b>
	<b>Plus 15% Vat</b>				<b>R 1,652,930.40</b>
	<b>Total</b>				<b>R 12,672,466.40</b>

### Annexure B

Description of Incident	Replacement of Traffic Light Connection point				
Comments	Replacement of the Traffic Light Electrical Connection point as it was totally flooded and finally vandalised				
Item no	Item Description	Unit	Quantity	Cost per Unit	Total Excluding vat
1	Replacement of 100kVA 11kV outdoor transformer	Unit	1	R 76,060.00	R 76,060.00
2	T3 MV switch completed with fuse carriage	Unit	1	R 125,780.00	R 125,780.00
3	95mm <sup>2</sup> MVPILC Cable Joints	Unit	2	R 4,200.00	R 8,400.00
4	95mm <sup>2</sup> MVPILC Cable Ends	Unit	3	R 2,800.00	R 8,400.00
5	95mm <sup>2</sup> x 3 core MVPILC Cable	Meter	30	R 870.00	R 26,100.00
	<b>Sub Total</b>				<b>R 244,740.00</b>
	<b>Plus 15% Vat</b>				<b>R 36,711.00</b>
	<b>Total</b>				<b>R 281,451.00</b>

### Annexure c

Description of Incident	Replacement of the Flooded Electrical MV Under Ground Supply Cable from Urania Substation to the Bronville Town Area with an Overhead Line				
Comments	The existing cable was stolen and the flooded area and could not be located and repaired. Further the Urania Substation that is supplying the area was vandalised and the MLM had no other option as to construct the indicated overhead MV line				
Item no	Item Description	Unit	Quantity	Cost per Unit	Total Excluding vat
1	Cots for the provision and installation of the required 955 meter overhead line can be indicated as per the attached quotation	Unit	1	R 644,460.00	R 644,460.00
2				R 0.00	R 0.00

3				R 0.00	R 0.00
4				R 0.00	R 0.00
5				R 0.00	R 0.00
	<b>Sub Total</b>				<b>R 644,460.00</b>
	<b>Plus 15% Vat</b>				<b>R 96,669.00</b>
	<b>Total</b>				<b>R 741,129.00</b>

#### Annexure D

<b>Description of Incident</b>	<b>Repair and hiring of Step-up 6.6kV to 11kV Transformer at Industrial Substation</b>				
<b>Comments</b>	As result of the flooding situation and the continued theft and vandalism incidents one of the two 6.6kV/11KV 2.5 MVA transformers malfunction. That resulted that 3.2kVA transformer was rented in for the interim as the damaged 2.5MVA transformer is being repaired.				
<b>Item no</b>	<b>Item Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Cost per Unit</b>	<b>Total Excluding vat</b>
1	Renting of 3.2MVA 6.6kV /11kV step-up transformer for period of 3 months	Unit	1	R 74,750.00	R 74,750.00
2	Repair of damaged 2.5mVA 6.6 step-up transformer	Unit	1	R 579,251.50	R 579,251.50
3				R 4,200.00	R 0.00
4				R 2,800.00	R 0.00
5				R 870.00	R 0.00
	<b>Sub Total</b>				<b>R 654,001.50</b>
	<b>Plus 15% Vat</b>				<b>R 98,100.23</b>
	<b>Total</b>				<b>R 752,101.73</b>

#### Annexure E

<b>Description of Incident</b>	<b>Reinstatement of the Urania Substation vandalised during the flooding incident</b>
<b>Comments</b>	As result of the flooding situation and the continued theft and vandalism incidents the Urania Substation were totally vandalised as the substation was non-functional during the period.

Item no	Item Description	Unit	Quantity	Cost per Unit	Total Excluding vat
1	Replacement of 11KV equipment	Unit	1	R 3,859,755.51	R 3,859,755.51
2	Replacement of Protection	Unit	1	R 2,472,327.00	R 2,472,327.00
3	Replacement of Cabling	Unit	1	R 1,514,482.16	R 1,514,482.16
4				R 0.00	R 0.00
5				R 0.00	R 0.00
	<b>Sub Total</b>				<b>R 7,846,564.67</b>
	<b>Plus 15% Vat</b>				<b>R 1,176,984.70</b>
	<b>Total</b>				<b>R 9,023,549.37</b>

#### Annexure F

<b>Description of Incident</b>	<b>Reinstatement of the vandalised Traffic intersection to Bronville and Virginia.</b>				
<b>Comments</b>	The traffic intersection controller and installation was flooded and thereafter vandalised and poles cut-off.				
Item no	Item Description	Unit	Quantity	Cost per Unit	Total Excluding vat
1	Reinstatement of the R73 & M4 traffic intersection as per provided quotation	Unit	1	R 238,973.45	R 238,973.45
2				R 0.00	R 0.00
3				R 0.00	R 0.00
4				R 0.00	R 0.00
5				R 0.00	R 0.00
	<b>Sub Total</b>				<b>R 238,973.45</b>
	<b>Plus 15% Vat</b>				<b>R 35,846.02</b>
	<b>Total</b>				<b>R 274,819.47</b>



**Summary of Cost Estimation for the Repair and Replacement of Damaged Electrical infrastructure During Flooding Incident Bronville**

<b>Annexure</b>	<b>Description of Activity</b>	<b>Estimated Cost Implication</b>
A	Replace 638 Electrical Connection that were damaged during flooding disaster	R 12,672,466.40
B	Replacement of Traffic Light Connection point	R 281,451.00
C	Replacement of Electrical flooded MV Undersig ground supply cable from Urania Substation to the Bronville Town Area with overhead line.	R 741,129.00
D	Repair and hiring of Step-up 6.6kV to 11kV Transformer	R 752,101.73
E	Reinstatement of the Urania Substation vandalised during the flooding incident	R 9,023,549.37
F	Reinstatement of the vandalised Traffic intersection to Bronville and Virginia.	R 274,819.47
<b>Total Estimated Cost Implication</b>		<b>R 23,745,516.96</b>

**3.3. Estimated costs for pump stations and waste water treatment works**

<b>WARDS 11,16,23,24 AND 29</b>			
<b>Area</b>	<b>Condition before</b>	<b>Nature of damages</b>	<b>Cost estimate</b>
Old Thabong	The pump station had zama-zama activities affecting it before the disaster and the Municipality repaired lines leading to the treatment works.	As a result of the increased water all over the area, zama-zamas took advantage and damaged some of the parts in the pump station.	R 367 130, 26
Bronville	We have just repaired both the North and South pump stations when the disaster happened.	Parts to the machines were stolen during the period of the disaster as we could not access the area. The other contributing factor was the fact that Bronville became dark as electricity was affected during this period and it took us more to bring electricity back.	R 221 375, 00

T8 pump station	We have a contractor currently working on the pump station	The whole area of wards 28 and 29 including wards 14 and 26 feed into the T8 pump station. Due to increased water intake, we are expected to increase their scope of work and extend their time due to the impact of rain.	R 260 000, 00
Klippan Pump station		After rain, the level of the pan rose such that we could not work. The other factor was the fact that we had vandalism by zama-zamas.	R 2 107 213, 40
<b>TOTAL</b>			<b>R 2 955 718, 66</b>

### 3.4. Estimated costs for yellow fleet

We were compelled to seek additional equipment to alleviate negative and swelling water levels in all affected areas to the tune of **R14, 936,763.00**. The amount was attributable to lack of own yellow fleet as a Municipality to respond to the need at such a short notice. These equipment had to be sourced from local supplier within short notice.

We found requests for intervention in almost all of the affected areas and there was no time for planning. We requested a range of these equipment including excavator, TLB and trucks.

### 4. Other requests

There were other requests that were made during the disaster where people submitted valid requests and as a Municipality, we were obliged to respond. All these other requests amounted to **R2, 053,600.00**

### 5. Conclusion

Council has declared the area as a local disaster area in terms of the National Disaster Management Framework of 2005.

Subsequently, the Provincial Government, through the Provincial Disaster Management Centre has gazetted the disaster on the 24<sup>th</sup> June 2019 and numbered 22 and we are availing this report together estimated amounts for further attention of

the situation as it has far reaching service delivery implications to our affected communities.

# Provincial Gazette

Free State Province

Published by Authority



# Provinsiale Koerant

Provinsie Vrystaat

Uitgegee op Gesag

NO. 22		FRIDAY, 14 JUNE 2019	NR. 22	VRYDAG, 14 JUNIE 2019
No.		Page		
PROVINCIAL NOTICE				
15	DECLARATION OF LOCAL STATE OF DISASTER - 2019 FLOODS: MATJHABENG LOCAL MUNICIPALITY			2

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**PROVINCIAL NOTICE**

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**[No. 15 of 2019]**

**DECLARATION OF LOCAL STATE OF DISASTER - 2019 FLOODS: MATJHABENG LOCAL MUNICIPALITY**

Under the powers vested in the Municipal Council by section 55(1) of the Disaster Management Act, 2002 (Act No. 57 of 2002), the Municipal Council of the Matjhabeng Local Municipality, having considered approved Council's resolution dated 10 May 2019, detailing the negative social, economic and environmental impact of the severe floods that took place on 21 until 26 April 2019, hereby declare a state of local disaster for the affected areas in Matjhabeng Local Municipality.

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