	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	7
		Document Identifier	240-88543153	Rev	2
		Effective Date	February 2026		
		Review Date	February 2027		

Stanley Koenaitse

Waterberg District Municipality
Private Bag X1018
Modimole
0510

skoenaite@waterberg.gov.za

Date: 2026/03/03

Enquiries: MF Dikgale

Tel: 014 762 6820

Email: DikgalMF@eskom.co.za

Ref: H16/1/13-AEL/M1/R1 – Feb 2026

Dear Mr Koenaitse

MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF FEB 2026


This document serves as the monthly emissions report required in terms of Section 7.7.1 of Medupi Power Station Provisional Atmospheric Emission License (AEL), H16/1/13-AEL/M1/R1.

This report reflects Unit 1,2,3,4,5, and 6 gaseous and particulate emissions performance against the AEL limit for the month of Feb 2026 only.

1. Raw Materials and Products


TABLE 1: QUANTITY OF RAW MATERIALS AND PRODUCTS CONSUMPTION IN FEB 2026

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Consumption – Feb 2026
	Coal	Tons/month	1 875 000	759 525
	Fuel Oil	Tons/month	20 000	3 962
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Production Rate in Month of Feb 2026
	Energy	GWh	3 571.2	1 449.687
	Ash Emitted	Tons/month	not specified	181.15

	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	7	
		Document Identifier	240-88543153	Rev	2	
		Effective Date	February 2026			
		Review Date	February 2027			

Date	Daily Reportable Hours of Operation						Coal usage	Production rate (MW)					
	U1	U2	U3	U4	U5	U6		U1	U2	U3	U4	U5	U6
01-Feb	0.0	24.0	24.0	0.0	24.0	24.0	24580	0.0	596.8	617.0	0.0	557.1	523.8
02-Feb	0.0	24.0	24.0	0.0	24.0	24.0	26508	0.0	709.2	691.0	0.0	578.0	500.6
03-Feb	0.0	24.0	24.0	0.0	24.0	24.0	25007	0.0	732.6	624.5	0.0	536.1	474.9
04-Feb	0.0	24.0	24.0	0.0	19.0	24.0	24140	0.0	706.6	637.6	0.0	455.8	458.9
05-Feb	0.0	24.0	24.0	0.0		24.0	23313	0.0	705.4	563.5	0.0		540.0
06-Feb	0.0	8.6	24.0	0.0	12.2	24.0	22651	0.0	675.4	531.9	0.0	532.3	536.7
07-Feb	0.0	6.3	24.0	0.0	24.0	24.0	26864	0.0	565.4	626.2	0.0	586.7	619.0
08-Feb	0.0	0.0	24.0	0.0	24.0	24.0	21005	0.0	0.0	667.9	0.0	585.7	653.4
09-Feb	0.0	0.0	24.0	0.0	22.9	24.0	22525	0.0	0.0	665.6	0.0	565.4	698.1
10-Feb	0.0	6.9	24.0	0.0	0.0	24.0	27484	0.0	740.0	658.4	0.0		653.0
11-Feb	0.0	24.0	24.0	5.6	12.0	24.0	30618	0.0	759.2	651.8	218.0	545.9	663.1
12-Feb	0.0	24.0	24.0	2.7	20.9	24.0	28615	0.0	633.9	585.0	247.9	484.0	580.9
13-Feb	0.0	24.0	24.0	19.7	0.0	24.0	28979	0.0	595.1	581.4	362.4		604.5
14-Feb	0.0	24.0	24.0	24.0	20.1	24.0	27041	0.0	484.4	484.9	454.1	472.6	514.6
15-Feb	0.0	24.0	24.0	24.0	24.0	24.0	26104	0.0	468.9	448.3	462.9	476.9	473.1
16-Feb	0.0	24.0	24.0	24.0	18.4	24.0	28875	0.0	505.5	504.3	490.5	454.5	485.8
17-Feb	12.2	24.0	24.0	21.8	0.0	24.0	31683	653.3	494.7	485.6	509.5	0.0	346.0
18-Feb	24.0	24.0	24.0	0.0	0.0	24.0	25689	646.7	613.4	607.9	0.0	0.0	380.0
19-Feb	24.0	24.0	24.0	0.0	0.0	24.0	29226	713.5	669.0	537.0	0.0	0.0	550.0
20-Feb	24.0	24.0	24.0	0.0	0.0	24.0	28116	572.3	612.5	648.8	0.0	0.0	550.4
21-Feb	24.0	24.0	24.0	0.0	0.0	24.0	29094	784.8	672.5	685.7	0.0	0.0	480.1
22-Feb	24.0	24.0	24.0	0.0	0.0	24.0	29160	746.8	633.7	656.5	0.0	0.0	552.0
23-Feb	24.0	24.0	24.0	0.0	0.0	24.0	29422	750.3	667.4	612.0	0.0	0.0	552.0
24-Feb	24.0	24.0	24.0	0.0	0.0	24.0	29271	731.3	699.5	632.8	0.0	0.0	582.9
25-Feb	24.0	24.0	24.0	0.0	0.0	24.0	28894	719.6	584.8	614.7	0.0	0.0	599.8
26-Feb	24.0	24.0	24.0	0.0	0.0	24.0	28849	732.6	717.3	647.7	0.0	0.0	593.9
27-Feb	24.0	24.0	24.0	0.0	0.0	24.0	27719	631.7	612.7	583.4	0.0	0.0	683.7
28-Feb	24.0	24.0	24.0	0.0	0.0	24.0	28093	613.1	530.8	533.4	0.0	0.0	547.2

NB: Operating hours less than 24 highlighted in pink.

	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	7	
		Document Identifier	240-88543153	Rev	2	
		Effective Date	February 2026			
		Review Date	February 2027			

2. Abatement Technology

TABLE 2: ABATEMENT EQUIPMENT CONTROL TECHNOLOGY EFFICIENCY FOR MONTH OF FEB 2026

Associated Unit/Stack	Technology Type	Efficiency	FFP Utilization
Unit 1	Fabric Filter Plant (FFP)	99.924%	100%
Unit 2	Fabric Filter Plant (FFP)	99.933%	100%
Unit 3	Fabric Filter Plant (FFP)	99.909%	100%
Unit 4	Fabric Filter Plant (FFP)	Off-line	Off-line
Unit 5	Fabric Filter Plant (FFP)	99.847%	100%
Unit 6	Fabric Filter Plant (FFP)	99.917%	100%

Note: FFP does not have bypass mode operation, hence plant 100% Utilised.

3. Energy Source Characteristics

TABLE 3: ENERGY SOURCE MATERIAL CHARACTERISTICS FOR THE MONTH OF FEB 2026

Characteristic	Stipulated Range (% by weight on a dry basis)	Monthly Average Content (% by weight on a dry basis)
Coal		
Sulphur Content	1.3 - 2.2	1.4
Ash Content	35 - 39	35.4

TABLE 4: ENERGY SOURCE MATERIAL CHARACTERISTICS FOR THE MONTH OF FEB 2026

Characteristic	Stipulated Range (%)	Monthly Average Content (%)
Oil		
Sulphur Content	0.5 - 3.5	1.8
Ash Content	0.02 - 0.1	0.030

4. Emissions Reporting

Medupi Power Station uses Continuous Emission Monitoring System which uses the extractive method for analysis.

The emission limits are as follows:

SO₂ Monthly = 3500 mg/Nm³

Dust Daily= 50 mg/Nm³

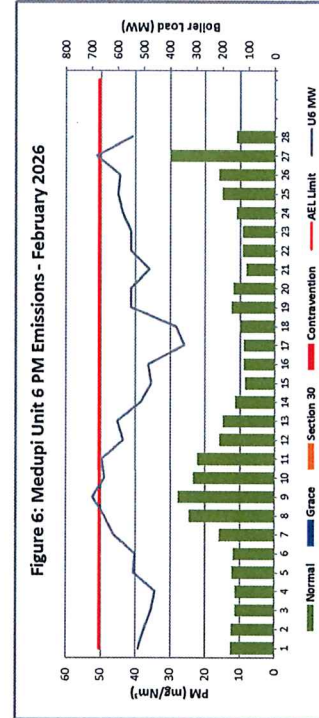
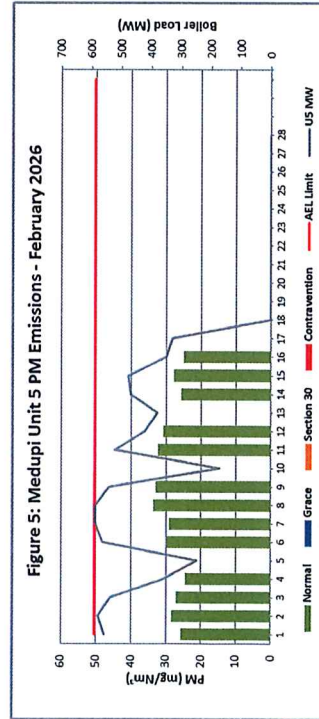
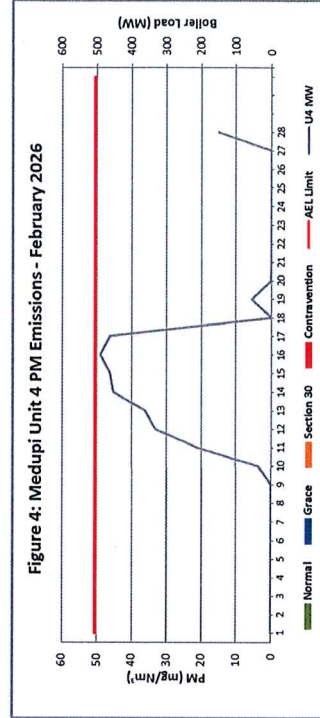
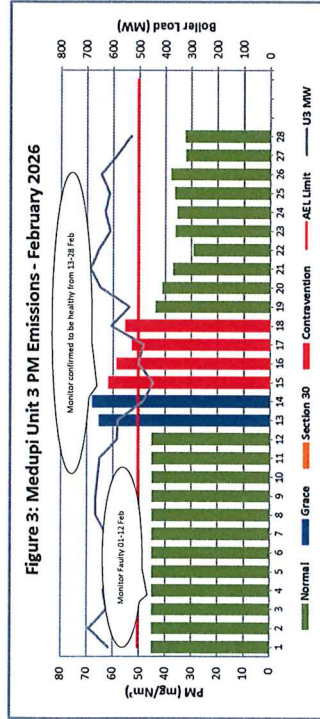
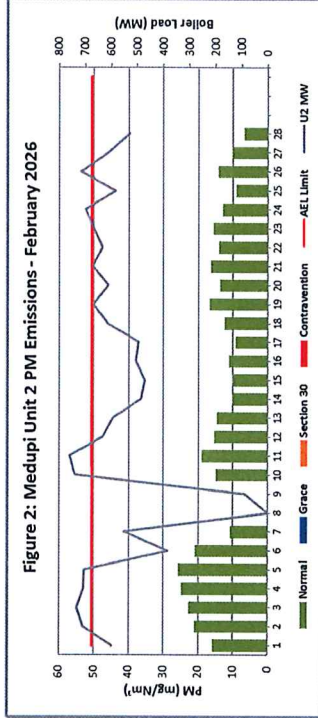
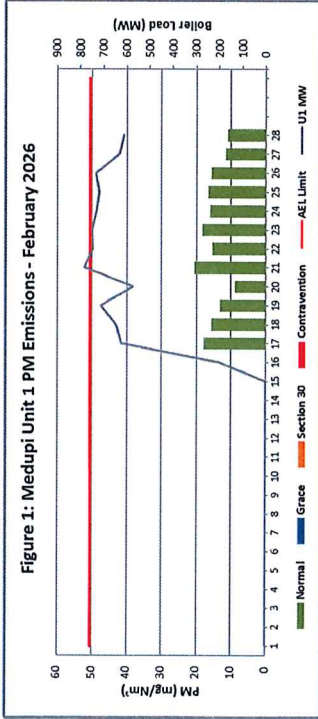
NO₂ Daily= 750 mg/Nm³



Medupi Power Station Monthly Emissions Report

Template Identifier	240-43921804	Rev	7
Document Identifier	240-88543153	Rev	2
Effective Date	Feb 2026		
Review Date	Feb 2027		

4.1 PM Daily Averages

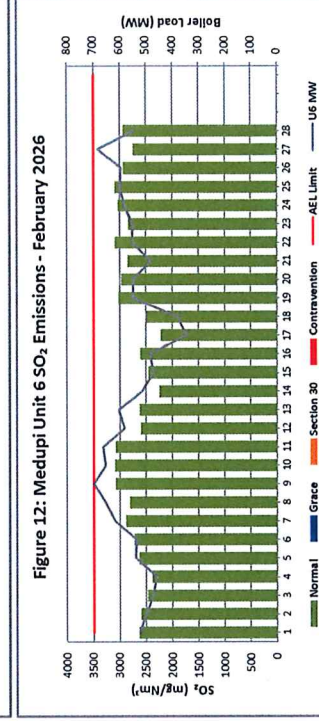
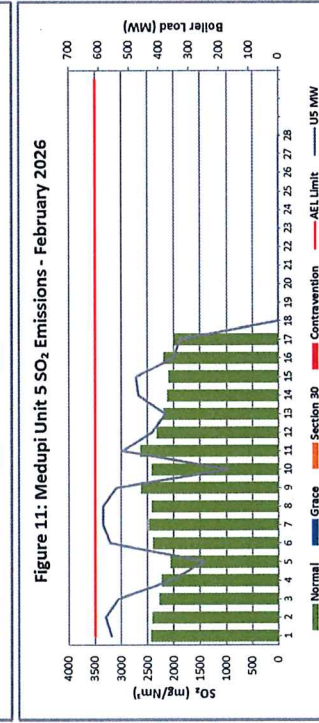
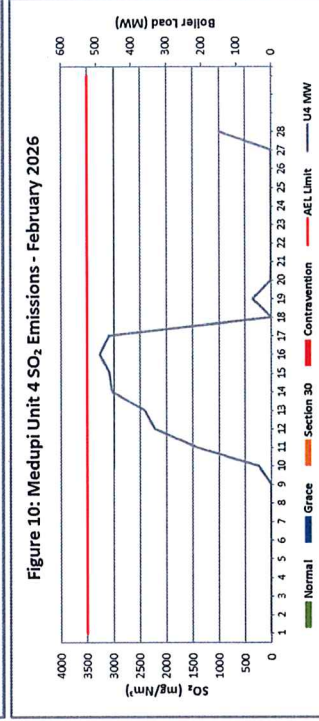
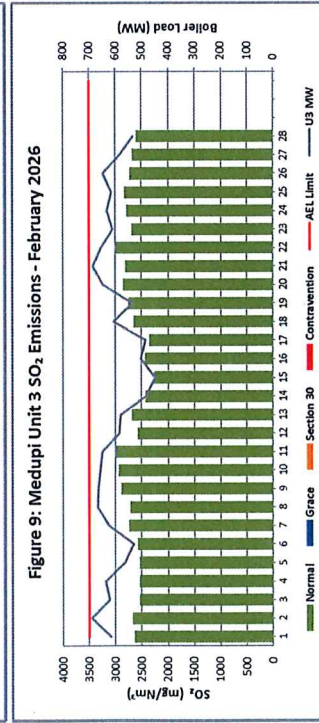
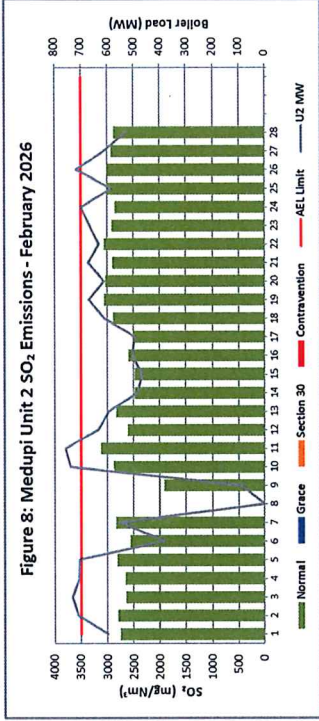
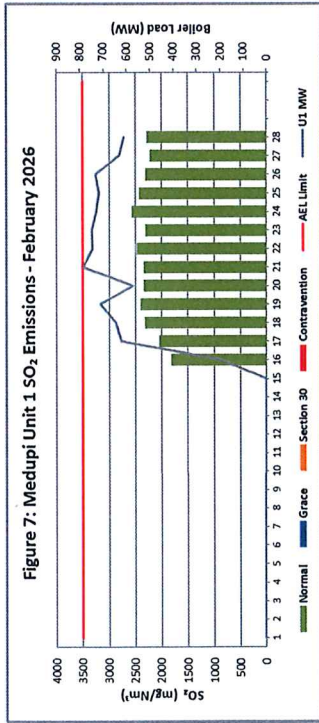




Medupi Power Station Monthly Emissions Report

Template Identifier	240-43921804	Rev	7
Document Identifier	240-88543153	Rev	2
Effective Date	Feb 2026		
Review Date	Feb 2027		

4.2 SO₂ Daily Averages

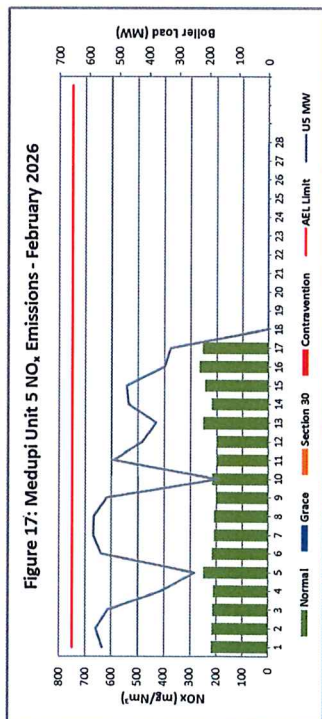
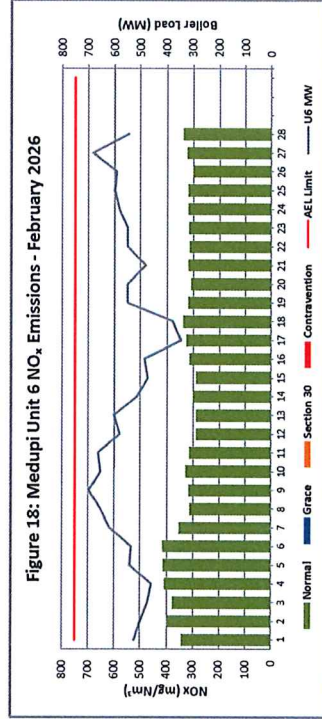
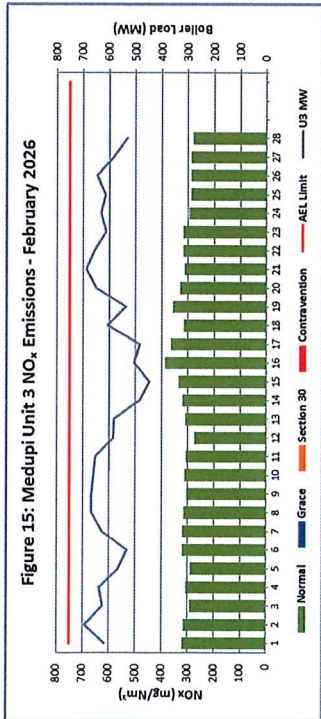
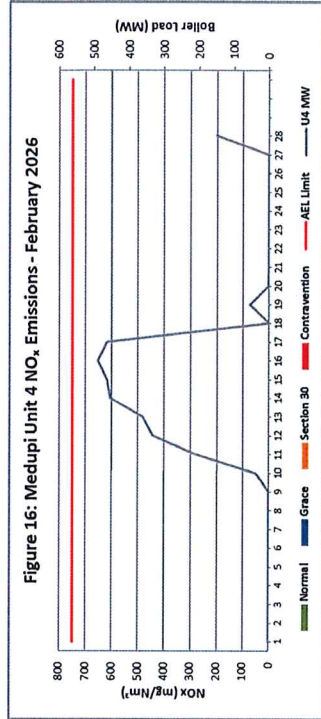
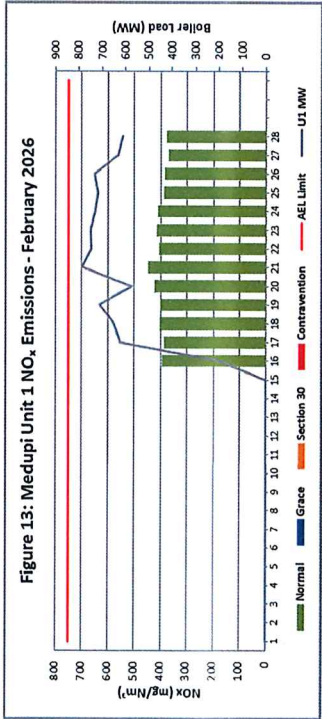
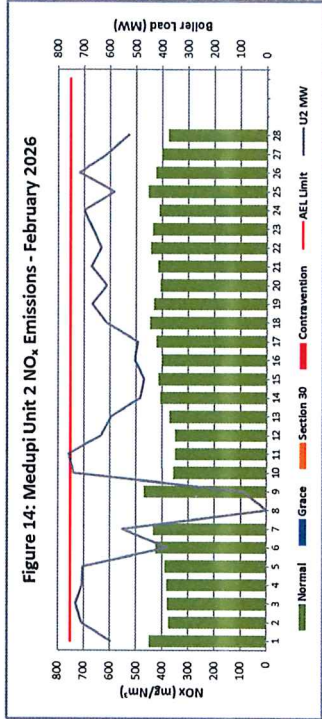




Medupi Power Station Monthly Emissions Report

Template Identifier	240-43921804	Rev	7
Document Identifier	240-88543153	Rev	2
Effective Date	Feb 2026		
Review Date	Feb 2027		

4.3 NOx Daily Averages




	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	7
		Document Identifier	240-88543153	Rev	2
		Effective Date	Feb 2026		
		Review Date	Feb 2027		

TABLE 5: MONTHLY TONNAGES FOR THE MONTH OF FEB 2026

Associated Unit/Stack	PM	SO ₂	NO ₂
Unit 1	20.6	3 430	591
Unit 2	35.0	6 938	995
Unit 3	49.1	2 937	342
Unit 4	0	0	0
Unit 5	36.6	3 921	369
Unit 6	39.9	7 563	909
SUM (Tons)	181.15	24 788	3 206

TABLE 6: MONTHLY AVERAGES FOR THE MONTH OF FEB 2026

Associated Unit/Stack	Average PM (mg/Nm ³)	Average SO ₂ (mg/Nm ³)	Average NO _x (mg/Nm ³)
Unit 1	15.1	2 300.7	400.6
Unit 2	14.9	2 780.0	409.0
Unit 3	45.3	2 678.1	314.4
Unit 4	0	0	0
Unit 5	28.7	2 320.5	223.8
Unit 6	14.3	2 756.8	332.8

5. Continuous Emission Monitoring Systems (CEMS)

Unit 1,2,3,4,5 and 6 Continuous Emission Monitoring Systems were always in operation when the unit was on load.

TABLE 7: PERIODS DURING WHICH CEMS WAS INOPERATIVE/MALFUNCTIONING

Date	CEMS status	Comments
01-12 February 2026	Faulty Unit 3 CEMS	Unit 3 monitor was restored and declared healthy on 13 Feb 2026.
09-18 February 2026	CEMS not reading for gases and dust	Monitor reliability for unit 4 was 0 due to unavailability of CEMS. Unit was switched off on 18 Feb 2026 and the readings were restored when the unit returned.


	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	7
		Document Identifier	240-88543153	Rev	2
		Effective Date	Feb 2026		
		Review Date	Feb 2027		

TABLE 8: CEMS MONITOR RELIABILITY PERCENTAGE (%)

Associated Unit/Stack	PM	SO ₂	NO ₂	O ₂
Unit 1	94.4	95.2	97.1	97.1
Unit 2	98.2	95.2	94.2	97.0
Unit 3	57.1	100.0	99.0	100.0
Unit 4	0	0	0	0
Unit 5	100.0	100.0	100.0	99.4
Unit 6	100.0	99.7	99.6	98.5

6. CEMS Calibration certificates and equipment used for calibration.

A service provider was appointed to calibrate CEMS equipment at Medupi Power Station, calibration certificates are in place and are made available upon request. Verification of the CEMS after calibration is conducted internally by Eskom.

7. Ambient Air Quality Monitoring Report

The Ambient Air Quality Monitoring report and Dust Fallout report for the month of February 2026 were submitted in March 2026.

8. Visual inspection of the exterior walls of the fuel oil tanks and TVOC Estimation

Visual inspection was conducted and there were no leaks observed on the exterior walls of the fuel oil tanks.




	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	7
		Document Identifier	240-88543153	Rev	2
		Effective Date	Feb 2026		
		Review Date	Feb 2027		

TABLE 9: TOTAL VOLATILE ORGANIC COMPOUND (TVOC) FOR FEB 2026

		
CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE TANKS*		
Date:	Monday, 23 March 2026	
Station:	Medupi Power Station	
Province:	Limpopo Province	
Tank no.	1-2	
Description:	Outdoor fuel oil storage tank	
Tank Type:	Vertical fixed roof (vented to atmosphere)	
Material stored:	Fuel Oil 150	
MONTHLY INPUT DATA FOR THE STATION Please only insert relevant monthly data inputs into the blue cells below Choose from a dropdown menu in the green cells The total VOC emissions for the month are in the red cells IMPORTANT: Do not change any other cells without consulting the AQ CoE		
MONTH:	February	
GENERAL INFORMATION:	Data	Unit
Total number of fuel oil tanks:	2	NA
Height of tank:*	14.2	m
Diameter of tank:	12	m
Net fuel oil throughput for the month:	3.962	tons/month
Molecular weight of the fuel oil:	166.00	Lb/lb-mole
METEROLOGICAL DATA FOR THE MONTH	Data	Unit
Daily average ambient temperature	26.20	°C
Daily maximum ambient temperature	32.94	°C
Daily minimum ambient temperature	20.71	°C
Daily ambient temperature range	12.24	°C
Daily total insolation factor	5.72	kWh/m ² /day
Tank paint colour	Aluminum/Specular	NA
Tank paint solar absorbance	0.39	NA
FINAL OUTPUT:	Result	Unit
Breathing losses:	0.70	kg/month
Working losses:	0.11	kg/month
TOTAL LOSSES (Total TVOC Emissions for the month):	0.81	kg/month
<small>*Calculations performed on this spreadsheet are taken from the USEPA AP-42- Section 7.1 Organic Liquid Storage Tanks - January 1996. This spreadsheet is derived from materials provided by Jimmy Peress, PE, Tritech Consulting Engineers, 85-93 Chevy Chase Street, Jamaica, NY 11432 USA, Tel - 718-454-3920, Fax - 718-454-6330, e-mail - PeressJ@nyc.rr.com.</small>		

	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	7
		Document Identifier	240-88543153	Rev	2
		Effective Date	Feb 2026		
		Review Date	Feb 2027		


9. Air quality improvements initiatives and public education and awareness campaigns


No awareness campaign was conducted for Feb 2026.


10. Complaints Register

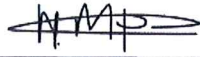
TABLE 10: COMPLAINTS FOR THE MONTH OF FEB 2026


Name/ Source Code	Air pollution complaints received	Calculation of Impacts/ emissions associated with the incident	Date of complaint and date of response by the license holder	Results of investigation	Action taken to resolve the complaint
N/A	No complaints received for the month of February 2026	N/A	N/A	N/A	N/A

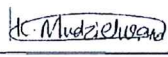
	Medupi Power Station Monthly Emissions Report	Template Identifier	240-43921804	Rev	7
		Document Identifier	240-88543153	Rev	2
		Effective Date	Feb 2026		
		Review Date	Feb 2027		

Compiled By: **Thabo Khoza**
Senior Advisor
Environmental Management

 Date: 27/03/2026

Verified by: **Malose Langa**
System Engineer Boiler

 Date: 2026/04/07

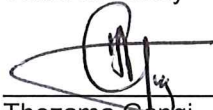
Verified by: **Shu Mpangase**
System Engineer C&I

 Date: 2026/04/20

Supported by: **Mokgadi Dikgale**
Environmental Manager

 pp Date: 2026/04/20

Supported by: **Khathu Mudzielwana**
Engineering Group Manager
(Acting)

 Date: 2026/04/20

I Thozama Gangi, declares that the information provided in this report is accurate and correct.

Yours sincerely



Thozama Gangi
GENERAL MANAGER: MEDUPI POWER STATION

Date: 21/04/2026

