

	Medupi Power Station Annual Emissions Report	Template Identifier	240-43921804	Rev	6
		Document Identifier	240-122798356	Rev	2
		Effective Date	May 2021		
		Review Date	May 2024		

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Ref: H16/1/13-AEL/M1/R1 Annual 2024/2025

Date: 2025/04/26

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Dear Mr Koenaitse

MEDUPI POWER STATION ANNUAL EMISSIONS REPORT

This serves as the Annual report required in terms of Section 7.7.3 of Medupi Power Station Provisional Atmospheric Emission License (AEL).

Table 1: Authorized list of Activities in terms of Section 21 (Government Notice No.893)

This report covers listed activities in terms of section 21 of AQA authorized to be conducted at the premises by the license holder. See table below for the Listed activity:

Category of Listed Activity	Sub-category of the Listed Activity	Description of the listed activity
1-Combustion Installations	1.1 -Solid Fuel combustion installations	Solid fuels combustion installations used primarily for steam raising or electricity generation.
2-Petroleum industry	2.4-Storage and handling of petroleum	Petroleum product storage tanks and product transfer facilities, except those under liquefied petroleum gas.
5-Mineral Processing, Storage, and handling	5.1 -Storage and Handling of ore and coal	Storage and handling of ore and coal not situated on premises of a mine or works as defined in mines healthy and safety Act 29/1996

**1. The emissions Performance, Compliances Statistics and Spot/Verification tests annual
Data Summaries 2024/2025 FY**

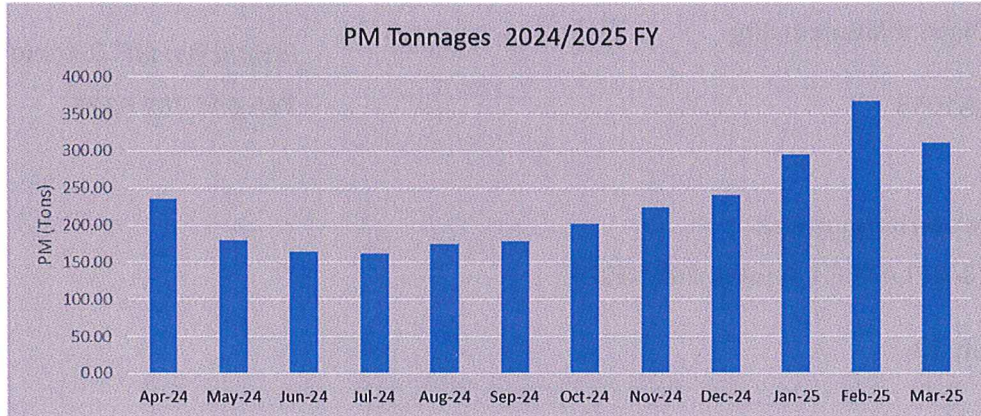


Figure 1: Unit 1-6 PM Tonnages

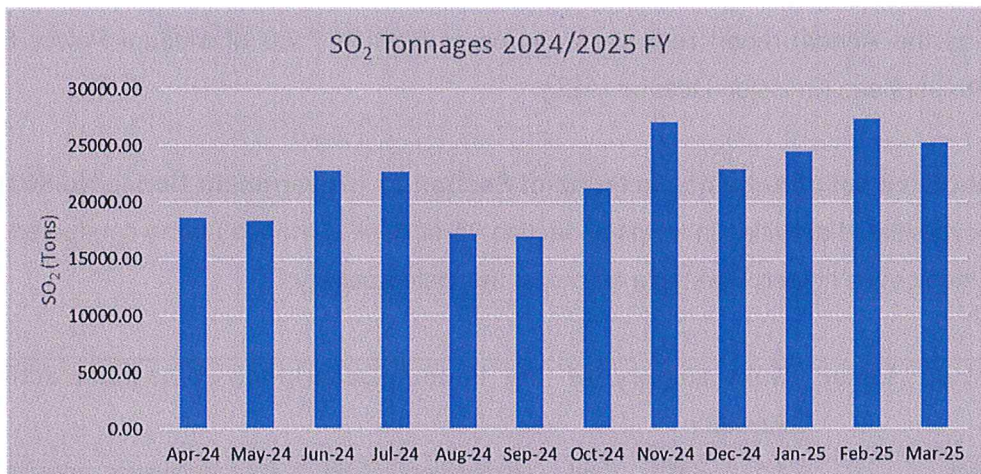


Figure 2: Unit 1-6 SO₂ Tonnages

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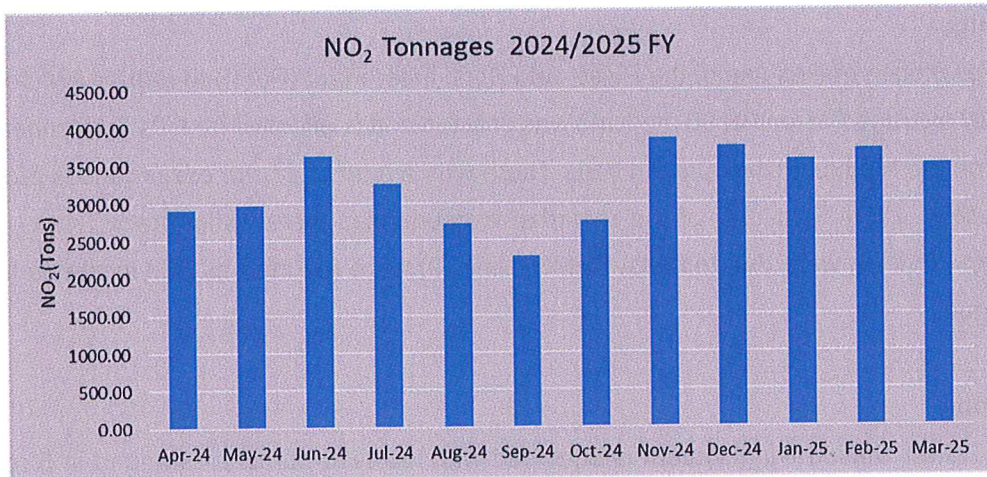


Figure 3: Unit 1-6 NO₂ Tonnages

2.1 Emissions Exceedances

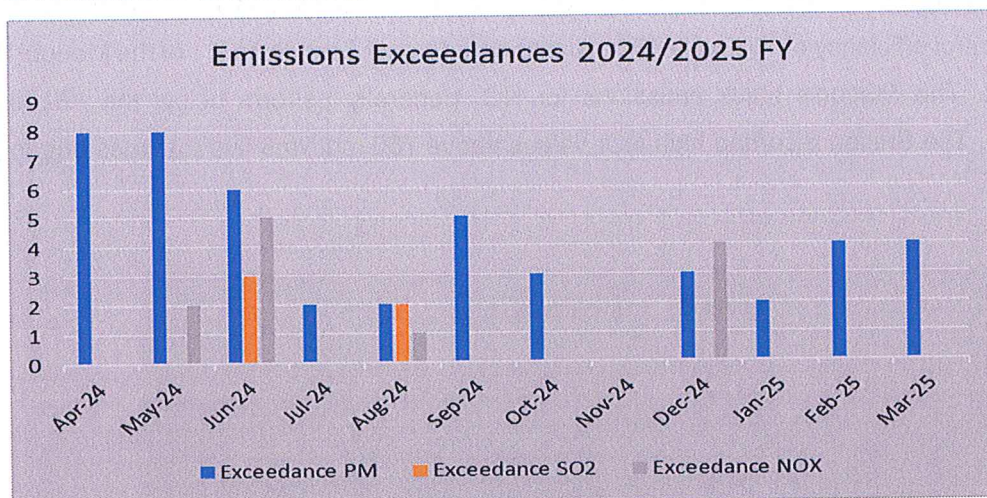


Figure 4: Stack Emissions Exceedances Unit 1 - 6

SO₂ Emissions

A monthly average SO₂ limit of 3500 mg/Nm³ was granted effective from 01 December 2020 as reflected on the Medupi Power Station AEL. SO₂ emissions are monitored and managed daily to ensure duty of care. There was a total of five (5) SO₂ exceedance of the 3500mg/Nm³ limit from 06-08 June 2024 at Unit 1. Unit 2 and 5 recorded exceedances on 26 August 2024. All the exceedances were due to the faulty CEMS.

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PM Emissions

Medupi Power Station makes use of the Pulse Jet Fabric Filter Plant (PJFF) to reduce PM from the stacks. A daily average PM limit of 50 mg/Nm³ was granted and is effective from 01 December 2020 as reflected on the Medupi Power Station AEL. There was a total of 47 PM exceedances recorded for 2024/2025FY. Thirty-Four (34) of the recorded exceedances were within grace (start-up and shutdown), and four (4) were due to faulty CEMS. Nine (9) were reported as S30 incidents for this reporting period.

NO_x Emissions

The Medupi Power Station firing system is equipped with low NO_x burners, arranged in 5 rows of burners, and designed for normal operation with one standby-mill (4- mill operation), i.e., with 24 out of 30 burners. The Low NO_x burners are designed to ensure efficiency and improved performance. This Abatement Equipment Control Technology (Low NO_x Burners) is required to maintain a minimum control efficiency of 70% with 100 utilizations in terms of condition 7.1 of the Medupi Power Station AEL. The Station's stack emissions for NO_x generally perform below the AEL limit of 750mg/Nm³. The Station recorded high NO_x values above 750 mg/Nm³ five (5) times due to faulty CEMS.

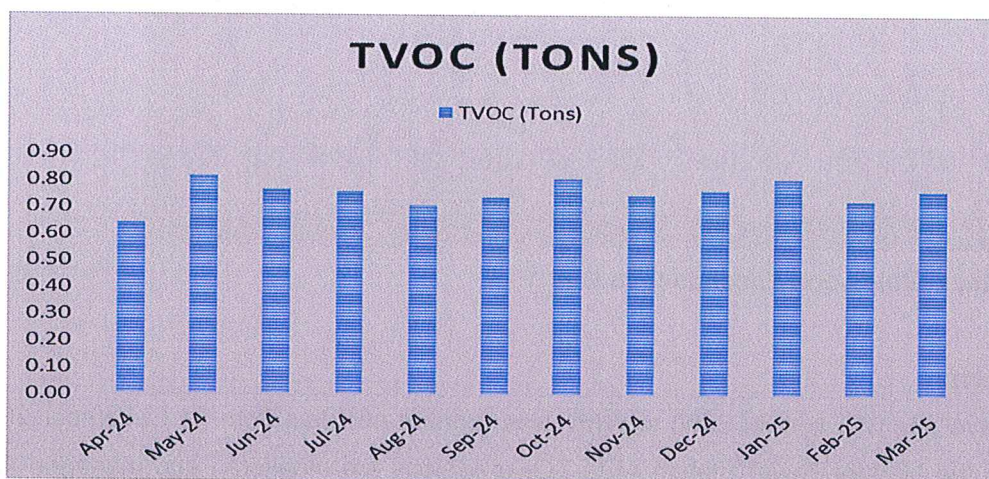


Figure 5: Fuel Oil Tank TVOC Emissions

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2.2 CEMS reliability (%) 2024/2025 FY

Table 2: CEMS reliability

April 2024

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	99.7	99.9	99.9
Unit 2	99.9	99.6	99.6	99.6
Unit 3	99.9	99.6	99.6	99.6
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	Unit Off	Unit Off	Unit Off	Unit Off
Unit 6	99.8	99.8	96.6	99.4

May 2024

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	100.0	100.0	99.8
Unit 2	100.0	100.0	100.0	99.8
Unit 3	100.0	97.4	100.0	100.0
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	100.0	5.6	6.9	21.7
Unit 6	100.0	92.6	75.9	75.3

June 2024

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	98.5	98.3	98.3
Unit 2	100.0	100.0	100.0	99.2
Unit 3	100.0	93.0	43.1	61.9
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	100.0	42.6	45.1	72.2
Unit 6	100.0	98.3	95.6	98.1

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July 2024

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	99.3	99.1	96.4
Unit 2	100.0	99.1	99.1	98.4
Unit 3	100.0	56.5	94.5	95.3
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	100.0	53.0	52.0	96.9
Unit 6	100.0	99.7	89.5	99.7

August 2024

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	86.8	84.9	85.8
Unit 2	99.8	89.7	85.9	88.5
Unit 3	100.0	21.4	91.5	94.0
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	100.0	72.7	73.2	100.0
Unit 6	100.0	98.9	98.9	98.8

September 2024

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	97.8	88.3	88.3	84.6
Unit 2	100.0	99.9	97.9	98.6
Unit 3	Unit Off	Unit Off	Unit Off	Unit Off
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	77.7	57.2	53.5	67.5
Unit 6	60.6	56.0	55.8	56.3

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October 2024

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	100.0	100.0	96.6
Unit 2	99.9	97.4	95.4	98.0
Unit 3	100.0	90.2	91.7	78.3
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	100.0	99.9	99.8	95.1
Unit 6	100.0	100.0	90.6	84.3

November 2024

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	97.9	97.5	98.3	96.1
Unit 2	96.6	98.5	96.7	98.5
Unit 3	100.0	94.7	95.7	99.4
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	100.0	99.7	99.7	99.7
Unit 6	100.0	99.7	99.8	97.2

December 2024

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	99.0	91.4	79.3	96.8
Unit 2	100.0	99.9	96.1	96.6
Unit 3	100.0	100.0	92.5	99.4
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	100.0	99.8	99.7	97.7
Unit 6	100.0	99.2	99.0	99.9

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January 2025

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	100.0	97.3	90.9
Unit 2	100.0	99.8	99.7	98.7
Unit 3	100.0	99.6	98.3	94.1
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	100.0	100.0	99.4	99.7
Unit 6	100.0	99.4	99.4	98.7

February 2025

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	99.4	99.3	99.3	98.5
Unit 2	99.7	99.7	99.7	99.7
Unit 3	100.0	11.6	11.5	98.2
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	100.0	99.8	99.8	99.8
Unit 6	100.0	99.8	99.8	98.9

March 2025

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	99.2	99.5	98.2	99.0
Unit 2	100.0	99.8	99.7	99.4
Unit 3	100.0	99.9	99.6	98.1
Unit 4	Unit Off	Unit Off	Unit Off	Unit Off
Unit 5	100.0	100.0	100.0	99.0
Unit 6	100.0	100.0	100.0	88.8

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2.3 Ambient Air Quality

Eskom commissioned an ambient air quality monitoring station at Kroomdraai farm to assess background conditions of ambient air quality prior to the commissioning of Medupi Power Station and the impacts on the environment thereof. The Medupi site is equipped for continuous monitoring of ambient concentrations of sulphur dioxide (SO₂), nitrogen dioxide (NO₂), ozone (O₃), fine particulate matter of sizes <10µm and <2.5 in diameter (PM₁₀ and PM_{2.5}). Ambient air quality monitoring is presented on a calendar year cycle (Jan 2024 to Dec 2024)

Table 3: Number of exceedances of the National Ambient Air Quality Limits for reporting period

	SO ₂ hourly	SO ₂ daily	SO ₂ 10- minute	NO ₂ hourly	PM ₁₀ daily	PM _{2.5} daily	O ₃ 8- hourly
January	6	2	11	0	ND	ND	0
February	1	0	3	ND	ND	ND	0
March	0	0	0	ND	ND	ND	0
April	1	0	3	ND	ND	ND	0
May	2	1	4	ND	ND	ND	0
June	0	0	1	0	1	ND	0
July	3	0	7	0	1	ND	0
August	0	0	2	0	3	5	3
September	0	0	2	0	16	0	51
October	0	0	0	0	15	0	16
November	2	0	2	0	1	1	35
December	0	0	0	0	0	0	0
Total	15	3	35	0	37	6	105
Allowed number of exceedances	88	4	526	0	4	4	11

The number of exceedances for the PM₁₀ daily limit, PM_{2.5} daily, and O₃ 8-hourly moving average limit were above the allowable number of exceedances per year respectively, and therefore the site was in non-compliance with the respective national ambient air standards. There were no exceedances of the NO₂ hourly limit recorded from Jan 2024 to Dec 2024. The monthly monitoring reports for ambient air quality are submitted to the local authorities on a monthly.

2.4 Dust Fall-out Monitoring.

Medupi Power Station dust monitoring network consists of 20 buckets which are collected and analysed within 30 +/- 3 days. The results for the reporting period March 2024 to March 2025 is depicted in figure 6 and it is evident that the dust management practice within the Power Station were a challenge during the windy season (Oct – Dec). Exceedances of Non-residential National Dust-fallout Regulation Limit (1200 mg/m²/days) were measured at the points indicated below.

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Table 5: Fugitive Dust Buckets Exceedances

Monitoring Point	Number of Exceedances	Months and Dust fallout (mg/m ² /days)
D03	2	Nov 2024 = 1919 & Dec 2024 = 1554
D15a	3	Oct 2024 = 1650, Nov 2024 = 1988, Jan 2025 = 1337
D16	2	Sep 2024 = 1345, Oct 2024 = 1452
D5a	4	Sep 2024 = 1815, Oct 2024 = 2473, Nov 2024 = 1528, Dec 2024 = 1753
D13	2	Jan 2025 = 2676, Feb 2025 = 5043

Note: Medupi Power Station developed a dust management plan, and the measures are being implemented and monitored regularly to determine their effectiveness

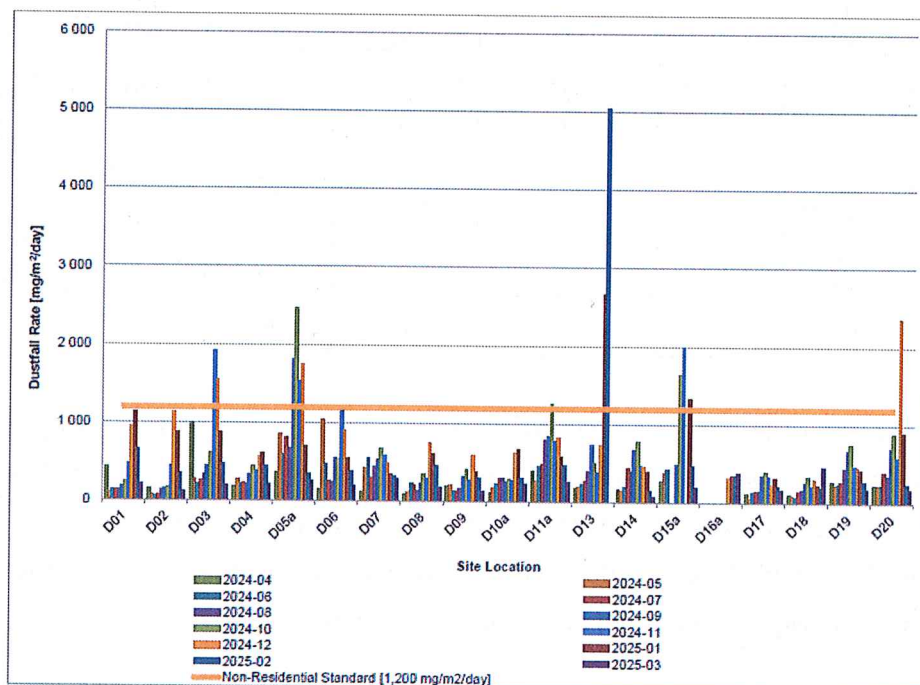


Figure 6: Fugitive Dust Emissions

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2.5 Spot/verification/correlation/parallel test results

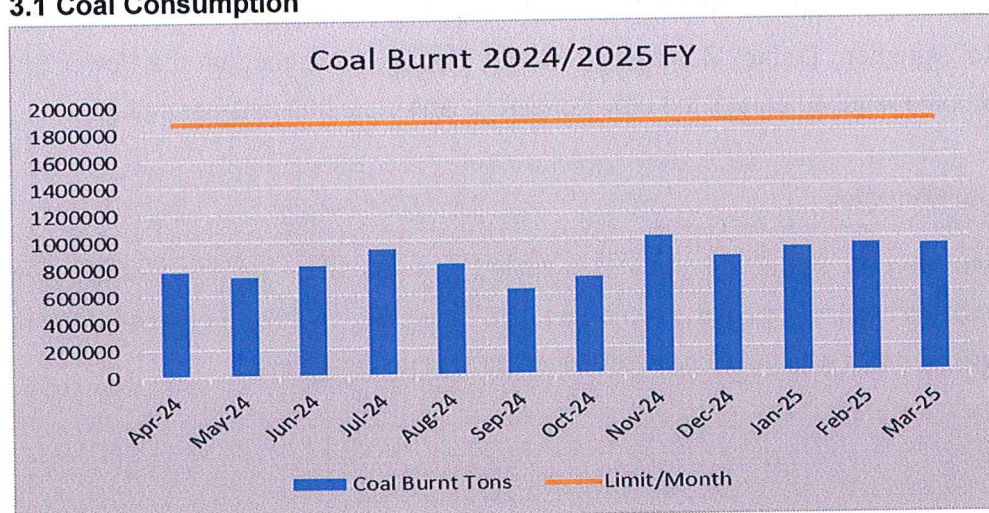
The following tests were conducted during the reporting period:

Table 6: Emissions verification/correlation/parallel test results

Unit	Type of test	Date
1	Particulate Matter Monitor Correlation Measurements	May 2024
	Gaseous parallel Measurements	January 2023
2	Particulate Matter Monitor Correlation Measurements	February 2025
	Gaseous parallel Measurements	October 2023
3	Particulate Matter Monitor Correlation Measurements	January 2023
	Gaseous parallel Measurements	January 2024
4	Particulate Matter Monitor Correlation Measurements	None
	Gaseous parallel Measurements	None
5	Particulate Matter Monitor Correlation Measurements	October 2024
	Gaseous parallel Measurements	April 2023
6	Particulate Matter Monitor Correlation Measurements	August 2023
	Gaseous parallel Measurements	August 2024

3 Operation and Annual Data Summaries

3.1 Coal Consumption



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Figure 7: Medupi Power Station monthly coal consumption rate

Medupi Power Station AEL No. H16/1/13-AEL/M1/R1 prescribes limits for raw materials consumption for coal and fuel oil. The maximum allowable consumption rate for fuel oil and coal is 20 000 and 1 875 000 tons per month respectively. Medupi Power Station coal consumption rate was well within the limit 1 875 000 tons/month as prescribed by the provisional AEL.

3.2 Fuel Oil consumption

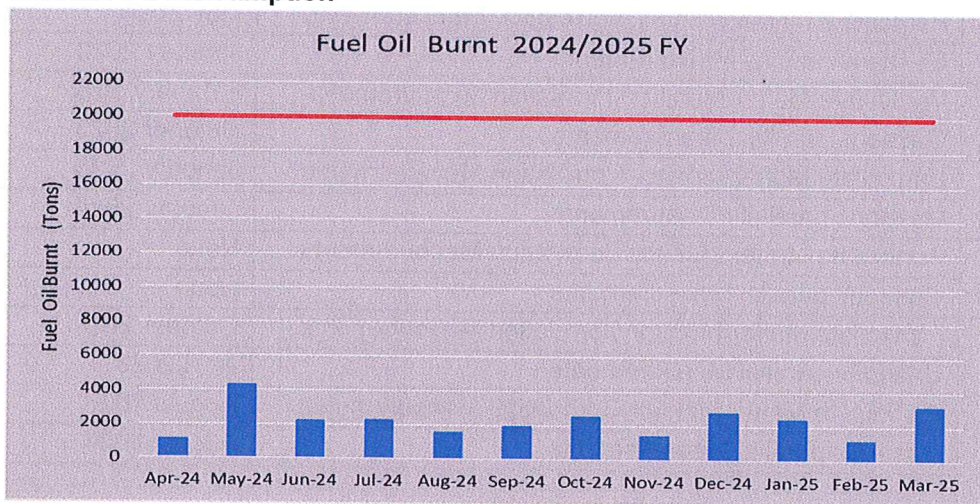


Figure 8: Medupi Power Station Fuel Oil Consumption

Medupi Power Station uses fuel oil during Unit light up, the maximum allowable tons of fuel oil to be used by Medupi Power Station is 20 000 tons/month. The Power Station monitors the monthly usage and report to Waterberg District Municipality (WDM), figure 8 indicates that the Power Station is complying with the requirements of the provisional AEL limit of 20 000 tons per month.

3.3 Production rates

The maximum licensed production capacity is limited to 4 800 MW. The power station remained within prescribed limit for the period between April 2023 and March 2024. For most of the months, the Units were operated with load losses to reduce particulate emissions.

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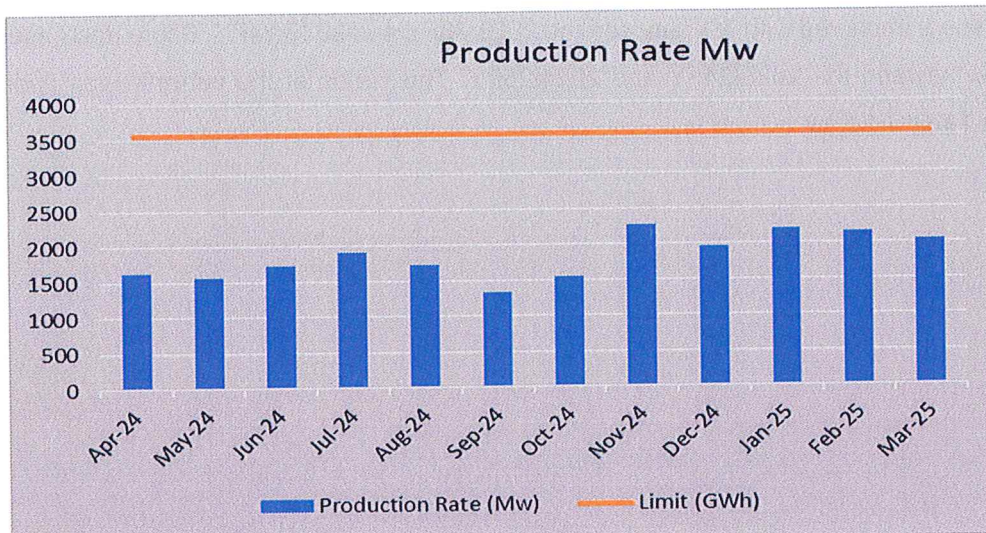


Figure 9: Average monthly production rate

4 Compliance Audit Report

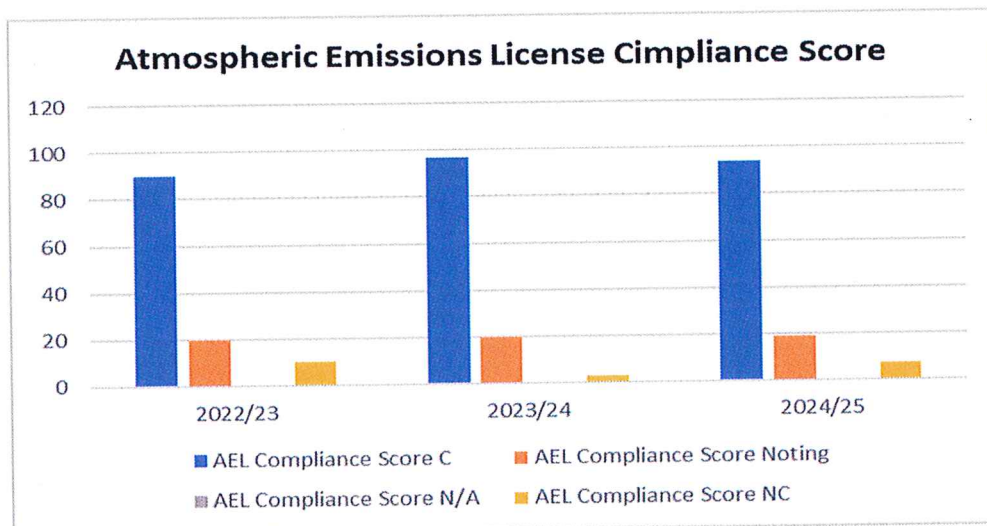


Figure 10: AEL Compliance status

Medupi Power Station monitors compliance to the provisional AEL conditions daily, and if a possible non-compliance is identified, relevant personnel within the Power Station are informed to address and/or prevent the non-compliance. The Authorities are notified of such non-compliances and action plan is then drafted, submitted, and implemented as required by the Medupi AEL. The AEL

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compliance score improved with 7% between the 2022/23FY and 2023/24FY. Score decreased from 97% to 94% between the 2023/24FY and 2024/25FY. The status of the current open findings is indicated on Table 7 below.

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Table 7: Status of AEL Non-compliances from the External Audit of 2024/2025 FY

	Condition	Finding /Non-Compliance	Recommendation	Target Date
4.1	The holder of the atmospheric emission License must ensure that all units, processes and apparatus used for the purpose of undertaking the listed activity in question, and all appliances and mitigation measures for preventing or reducing atmospheric emissions, are always properly maintained and operated.	All unit processes and apparatus used to undertake the listed activity, as well as all appliances and mitigation measures for preventing or reducing atmospheric emissions, are consistently maintained and operated in accordance with the relevant procedures and work instructions (WI). However, the analyser has been faulty and has been giving incorrect pollutant results that are outside of the regulatory limit. In addition, the station has been operating without a emission control technologies such as the Flue-gas Desulphurisation (FGD) plant for over seven years since the units were commissioned. The project update indicates that the FGD plant is scheduled for commissioning in September 2029.	The station should ensure that the analyser is repaired and that the plant is retrofitted with FGD to comply with legislation and international best practices.	30 September 2029
4.8a.	The License Holder is responsible for quality assurance of methods and performance. Where the License Holder uses external laboratories for sampling or analysis, accredited laboratories shall be used.	The Station does not have proof of notification of the Interested and Affected Parties, to the effect that an AEL has been issued.	Submit a variation of the current Licence and once the new Licence is received then a notification will be sent to the I&AP registered during the variation process	31 July 2026
7.15	The License Holder shall, continuously operate, and maintain a flue gas desulphurization (FGD) plant for control of SO₂ on all six units. The Flue Gas Desulphurization plant shall be retrofitted in each unit within six (06) years after first commissioning of each unit and during the General Overhaul outages The CEMS shall be operated, calibrated and maintained continuously, dependent of the units' operation. The License Holder must measure and record valid	The Flue Gas Desulphurisation (FGD) plant is not installed at the station, and it has been more than 06 years since the first unit was commission. Notwithstanding, a letter notifying the authorities regarding the change of construction dates, dated 03 September 2018 The Station conducts monthly CEMS functionality and reliability tests, maintenance, and calibrations and reports malfunctions accordingly. However, the CEMS	Drive FGD implementation and ensure the project is executed	30 September 2029
7.3.2			The SANAS audit requirement must be met accordingly. This	31 July 2026

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continuous emission data for the parameters listed in condition 7.3 during all periods of the units' operation including periods of unit startup, shut down, malfunction or emergency conditions, except for periods of CEMS quality assurance/quality control ("QA/QC"), routine maintenance, or uncontrolled malfunction. Nevertheless, the CEMS must be maintained to yield a minimum of 90% valid hourly average values during the reporting period. CEMS must be audited by a SANAS accredited laboratory at least once every two (02) years.	yield is below the required 90%. At the time of the audit, it was noted that the CEMS gas reliability for Units 1 and 3 was low. As a result, the data being reported is not reliable and accurate. The licence condition furthermore requires that the CEMS be audited by a SANAS-accredited laboratory at least once every two years. The Station has appointed Levego Environmental Services to monitor Parallel gaseous emissions and test correlation on the Flue of Unit 6. Each unit has its annual schedule, and the Station conducts these tests annually.	will enhance the credibility of the data.
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5. Start-Up, Maintenance, Shutdowns or malfunction occurrence and duration annual Statics 2024/2025 FY

Table 8: Medupi Power Station Planned Outages (Planned Maintenance)

UNIT	STARTDATE	REASON	ACTUALSTARTDATE	ACTUALENDDATE
1	2024/07/19 02:05:00	U1 shutdown for generator transformer oil leak repairs	2024/07/19 02:05:00	2024/07/22 08:04:00
2	2024/06/13 21:09:00	Boiler tube Leak Repairs	2024/06/13 21:09:00	2024/06/20 19:26:00
2	2025/03/12 09:57:00	PA duct repairs	2025/03/12 09:57:00	2025/03/17 06:57:00
3	2024/06/09 09:13:00	Flue gas ducting and Gas Air heater repairs	2024/06/09 09:13:00	2024/06/24 09:12:00
3	2024/08/23 23:37:00	Unit shutdown for IR	2024/08/23 23:37:00	2024/10/04 23:36:00
3	2024/10/19 21:45:00	22/11kv unit trfr 1 red phase has a hot spot	2024/10/19 21:45:00	2024/10/21 11:16:00
3	2024/12/01 00:21:00	Islanding test	2024/12/01 00:21:00	2024/12/01 00:44:00
3	2024/12/14 00:46:00	Unit shutdown for ID fan rotor replacement	2024/12/14 00:46:00	2024/12/26 19:06:00

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5	2023/12/25 23:04:00	MGO	2023/12/25 23:04:00	2024/05/10 23:03:00
5	2024/08/08 22:25:00	Gland steam system faulty	2024/08/08 22:25:00	2024/08/23 12:15:00
5	2024/11/22 23:20:00	Islanding Test	2024/11/22 23:20:00	2024/11/22 23:42:00
5	2024/12/27 21:31:00	M5 LHS ID Fan Rotor Replacement	2024/12/27 21:31:00	2025/01/04 13:53:00
6	2024/04/27 08:58:00	Turbine surface temperature probe repair	2024/04/27 08:58:00	2024/05/04 08:57:00
6	2024/07/28 04:19:00	Islanding test	2024/07/28 04:19:00	2024/07/28 04:43:00
6	2025/03/29 02:26:00	IR Outage	2025/03/29 02:26:00	

Table 9: Medupi Power Station Unit trips 2024/2025 FY

UNIT	START DATE	REASON	ACTUAL START DATE	ACTUAL END DATE
1	2024/04/25 20:11:00	Unit tripped due to Loss of pyrometers.	2024/04/25 20:11:00	2024/04/26 01:46:00
1	2024/04/26 19:42:00	Unit tripped due to Loss of pyrometers.	2024/04/26 19:42:00	2024/04/27 03:14:00
1	2024/05/11 14:05:00	Unit tripped due to loss of pyrometers.	2024/05/11 14:05:00	2024/05/11 18:55:00
1	2024/09/16 15:18:00	Unit 1 tripped due LHS draught group not in service	2024/09/16 15:18:00	2024/09/16 17:18:00
2	2024/05/19 08:15:00	Unit 2 Boiler tripped on Both draught groups lost	2024/05/19 08:15:00	2024/05/19 17:03:00
2	2024/07/29 06:50:00	Unit tripped due to loss of draught groups	2024/07/29 06:50:00	2024/07/29 15:15:00
2	2024/08/12 11:52:00	Unit 2 tripped due to excitation alarms	2024/08/12 11:52:00	2024/08/12 13:13:00
2	2024/09/29 11:57:00	U2 tripped due to RE-heater 2 outlet temp high	2024/09/29 11:57:00	2024/09/29 20:54:00
2	2024/12/18 04:48:00	Unit tripped on Buchholz protection	2024/12/18 04:48:00	2024/12/19 05:31:00
2	2024/12/19 06:06:00	Unit tripped due to seal oil DP low	2024/12/19 06:06:00	2024/12/19 10:29:00
2	2025/02/28 09:54:00	Unit 2 tripped after power supply interruption	2025/02/28 09:54:00	2025/02/28 17:45:00
2	2025/03/04 12:32:00	Unit tripped due to LH FD fan bearing temp high	2025/03/04 12:32:00	2025/03/04 18:41:00
3	2024/04/03 06:16:00	Unit 3 Turbine tripped after IGV2 valve closed on disturbed signal	2024/04/03 06:16:00	2024/04/03 10:47:00
3	2024/04/28 08:46:00	Unit tripped due to boiler air ratio 1 & 2	2024/04/28 08:46:00	2024/04/28 14:09:00

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3	2024/08/18 05:16:00	Turbine tripped due to generator gas cooling temperature high.	2024/08/18 05:16:00	2024/08/18 11:34:00
3	2024/12/03 14:47:00	Turbine tripped due to ACCCT level high	2024/12/03 14:47:00	2024/12/04 06:58:00
3	2024/12/31 04:30:00	U3 tripped on HP Bypass mono stats faulty	2024/12/31 04:30:00	2024/12/31 22:55:00
3	2025/01/14 11:59:00	U3 tripped due to Positive pressure lost on drought group	2025/01/14 11:59:00	2025/01/14 20:02:00
5	2024/05/16 15:03:00	U5 tripped due to HP heater transmitter faulty	2024/05/16 15:03:00	2024/05/17 03:07:00
5	2024/05/23 21:05:00	Boiler tripped eco flow low	2024/05/23 21:05:00	2024/05/24 09:13:00
5	2024/07/25 03:16:00	Unit tripped due to furnace pressure high	2024/07/25 03:16:00	2024/07/25 14:09:00
5	2024/09/07 12:25:00	Unit 5 tripped due to LHS draught group suction pressure low	2024/09/07 12:25:00	2024/09/07 20:24:00
5	2024/09/13 02:06:00	U5 turbine tripped due to exhaust temperature high.	2024/09/13 02:06:00	2024/09/13 08:38:00
5	2024/09/14 18:30:00	Unit tripped due to turbine speed probes faulty.	2024/09/14 18:30:00	2024/09/20 15:34:00
5	2024/10/12 11:48:00	Unit 5 Turbine Tripped on LP Turbine Exhaust Temp High below 40%BMCr	2024/10/12 11:48:00	2024/10/13 02:29:00
5	2024/10/15 01:49:00	Unit tripped due to Turbine cooling stress below 40%BMCr	2024/10/15 01:49:00	2024/10/15 13:12:00
5	2024/10/31 09:10:00	Boiler tripped due to Eco flow low	2024/10/31 09:10:00	2024/10/31 14:23:00
5	2024/11/13 04:01:00	Turbine tripped due to exhaust temp deviation	2024/11/13 04:01:00	2024/11/13 18:44:00
5	2024/12/27 20:38:00	U5 tripped on turbine Reheater diff protection	2024/12/27 20:38:00	2024/12/27 21:31:00
5	2025/01/04 16:44:00	Unit 5 tripped due to combustion air flow low.	2025/01/04 16:44:00	2025/01/04 23:25:00
5	2025/02/27 19:57:00	Boiler tripped due to no mills in service	2025/02/27 19:57:00	2025/03/01 04:52:00
6	2024/04/02 05:32:00	U6 tripped on Turbine HP bypass stress high	2024/04/02 05:32:00	2024/04/02 08:24:00
6	2024/04/02 08:27:00	Turbine tripped on HP turbine stress	2024/04/02 08:27:00	2024/04/02 18:20:00
6	2024/04/10 15:07:00	Unit tripped due to Generator cold gas temperature high	2024/04/10 15:07:00	2024/04/10 19:09:00
6	2024/05/05 19:00:00	Unit tripped on boiler Air Ratio	2024/05/05 19:00:00	2024/05/06 06:15:00
6	2024/05/08 16:01:00	Unit 6 Boiler tripped Loss of both Draught Groups.	2024/05/08 16:01:00	2024/05/09 07:05:00
6	2024/05/30 09:32:00	Unit 6 Turbine tripped due to hydraulic oil pump pressure low	2024/05/30 09:32:00	2024/05/31 12:57:00

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6	2024/07/06 00:09:00	Turbine tripped on ACCCT level high.	2024/07/06 00:09:00	2024/07/06 04:56:00
6	2024/08/17 07:18:00	ID Fan 2 tripped on suction pressure low	2024/08/17 07:18:00	2024/08/17 16:59:00
6	2024/09/14 15:25:00	Unit tripped due to FD fan 2 speed sensor faulty	2024/09/14 15:25:00	2024/09/15 04:43:00
6	2024/09/16 02:32:00	Boiler tripped due to loss of fires	2024/09/16 02:32:00	2024/09/16 09:07:00
6	2024/10/16 03:16:00	Unit tripped during transition due to Re-heater temp high	2024/10/16 03:16:00	2024/10/16 03:54:00
6	2024/11/20 20:04:00	Turbine tripped due to Boiler temp drop	2024/11/20 20:04:00	2024/11/20 20:52:00
6	2024/12/25 08:15:00	Unit tripped on superheater 3 outlet temp high.	2024/12/25 08:15:00	2024/12/25 08:27:00
6	2025/01/17 15:49:00	Unit tripped due to ID Fan suction pressure low	2025/01/17 15:49:00	2025/01/17 23:49:00
6	2025/01/20 18:01:00	Unit tripped due to loss of 230V AC control power supply on 400V boiler brd2	2025/01/20 18:01:00	2025/01/21 04:07:00
6	2025/02/16 17:08:00	Unit tripped on generator protection	2025/02/16 17:08:00	2025/02/16 20:31:00
6	2025/02/20 21:40:00	Turbine tripped on main steam temperature drop	2025/02/20 21:40:00	2025/02/21 03:43:00
6	2025/02/22 00:58:00	U6 tripped due to gen protection	2025/02/22 00:58:00	2025/02/22 09:09:00
6	2025/03/02 05:01:00	U6 tripped SH3 temperature high	2025/03/02 05:01:00	2025/03/03 12:42:00
6	2025/03/04 10:47:00	Unit tripped due to reheater temp high	2025/03/04 10:47:00	2025/03/04 16:19:00

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6. Conclusion

In general, Medupi Power Station complies with most of the requirements of the AEL issued in terms of Section 40(1) (a) of the National Environmental Management: Air Quality Act, 2004, listed activity No. 1.1, 2.4 and 5.1.

There was no major upgrade on the plant for the reporting period. Medupi Power Station has identified areas of improvement to avoid legal contraventions, prevent significant environmental impact. Action plans have been developed to improve compliance, and actions are tracked on an on-going basis.

There were no recommendations received from the authorities regarding any non-compliance or potential non-compliance.

Yours sincerely

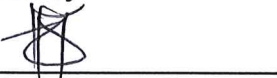
Compiled by:



Thabo Khoza

MEDUPI POWER STATION: ENVIRONMENTAL MANAGEMENT SENIOR ADVISOR

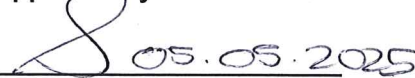
Reviewed by:



Mokgadi Dikgale

MEDUPI POWER STATION: ENVIRONMENTAL MANEGEMENT MANAGER

Supported by:



Sithokozile Hlongwa

MEDUPI POWER STATION: ENGINEERING MANAGER (ACTING)

Approved by:



Thozama Gangi

MEDUPI POWER STATION: GENERAL MANAGER (ACTING)