

	Medupi Power Station Annual Emissions Report	Template Identifier	240-43921804	Rev	6
		Document Identifier	240-122798356	Rev	2
		Effective Date	May 2023		
		Review Date	May 2027		

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Ref: H16/1/13-AEL/M1/R1 Annual 2025/2026

Date: 2026/06/30

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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 fuel 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 Mine Health and Safety Act 29/1996

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1. The emissions Performance, Compliances Statistics and Spot/Verification tests annual Data Summaries 2025/2026 FY

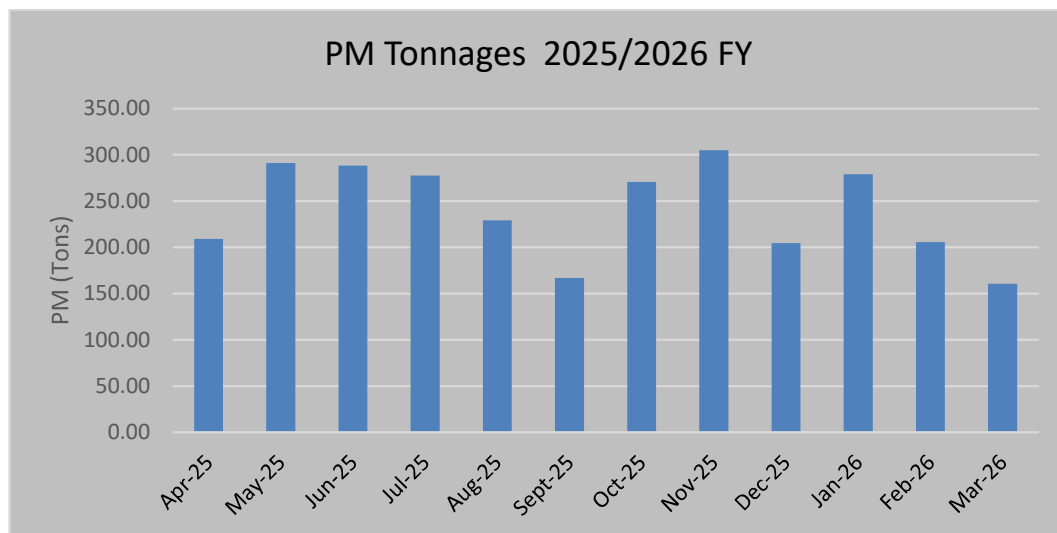


Figure 1: Unit 1-6 PM Tonnages

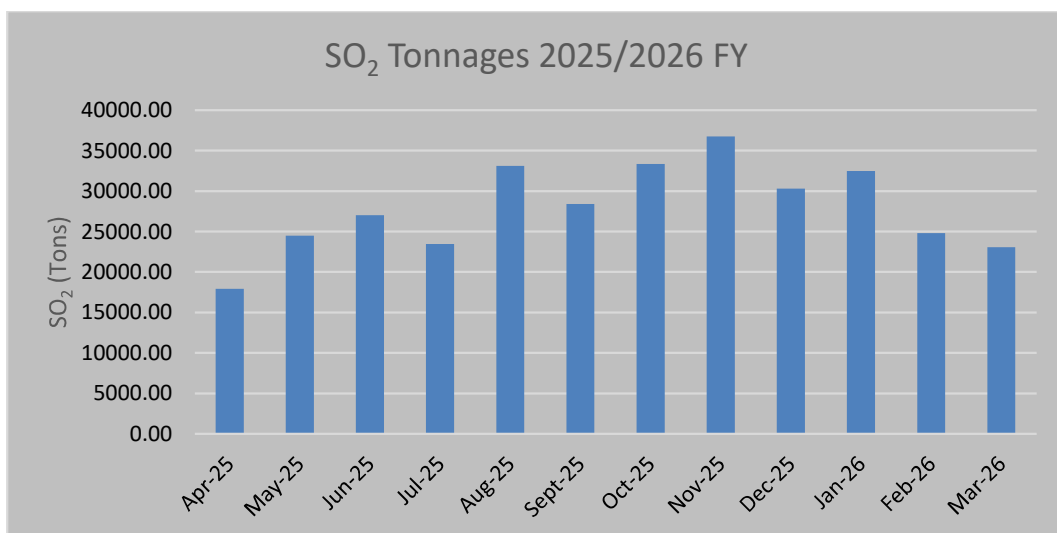


Figure 2: Unit 1-6 SO₂ Tonnages

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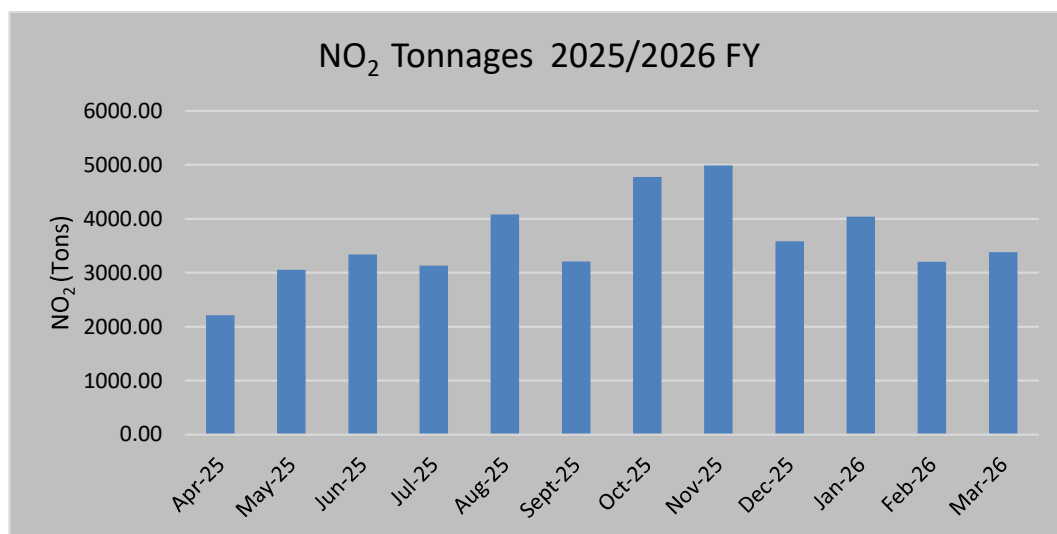


Figure 3: Unit 1-6 NO₂ Tonnages

2.1 Emissions Exceedances

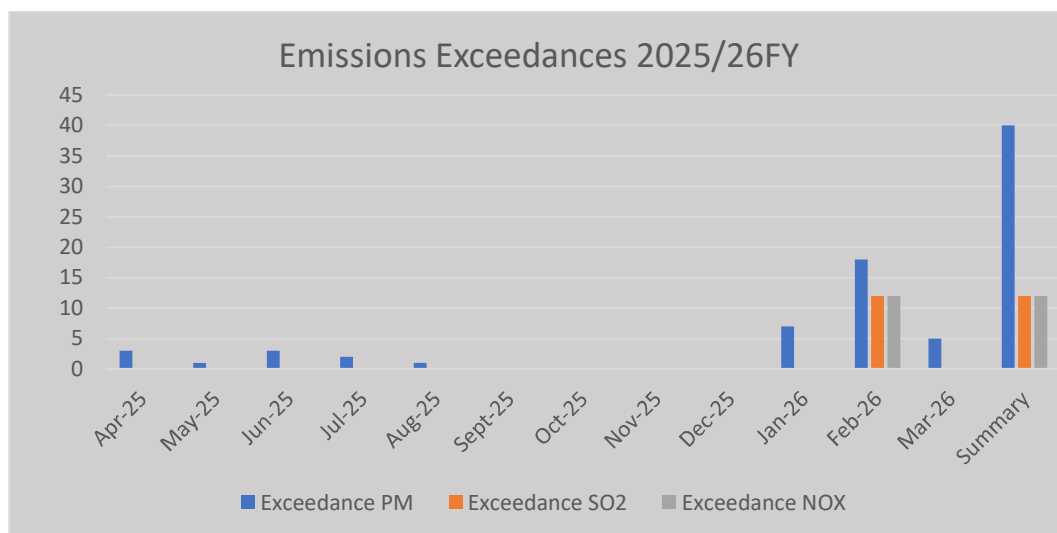


Figure 4: Stack Emissions Exceedances Unit 1 - 6

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 Twelve (12) SO₂ exceedance of the

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3500mg/Nm³ limit in February 2026 at Unit 4. All the exceedances were due to the faulty CEMS.

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 40 PM exceedances recorded for 2025/26FY. Twenty-Two (22) of the recorded exceedances were within grace (start-up and shutdown), and Twelve (12) were due to faulty CEMS. Six (6) 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% utilisation 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 twelve (12) times due to faulty CEMS.

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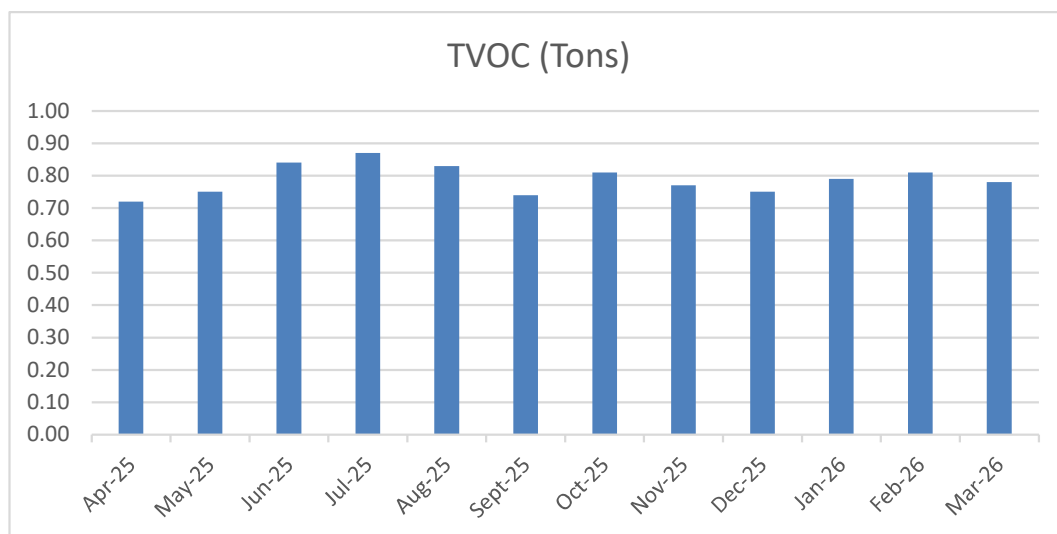


Figure 5: Fuel Oil Tank TVOC Emissions

2.2 CEMS reliability (%) 2025/2026 FY

Table 2: CEMS reliability

April 2025

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	100.0	99.8	99.8
Unit 2	100.0	94.8	94.8	90.5
Unit 3	100.0	100.0	99.9	100.0
Unit 4	Off	Off	Off	Off
Unit 5	100.0	99.8	100.0	100.0
Unit 6	Off	Off	Off	Off

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May 2025

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	100.0	100.0	100.0
Unit 2	100.0	100.0	100.0	100.0
Unit 3	100.0	98.4	98.5	100.0
Unit 4	Off	Off	Off	Off
Unit 5	100.0	100.0	100.0	99.9
Unit 6	Off	Off	Off	Off

June 2025

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	97.3	100.0	99.9	99.9
Unit 2	99.7	99.7	99.7	69.7
Unit 3	79.0	87.9	87.6	87.2
Unit 4	Off	Off	Off	Off
Unit 5	100.0	100.0	100.0	99.7
Unit 6	100.0	100.0	100.0	99.5

July 2025

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	100.0	98.7	98.4
Unit 2	98.9	100.0	99.7	100.0
Unit 3	82.7	98.0	85.1	99.6
Unit 4	100.0	100.0	100.0	100.0
Unit 5	99.9	98.5	98.5	89.3
Unit 6	100.0	99.9	97.9	99.9

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August 2025

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100	81	100	100
Unit 2	100	81	81	80
Unit 3	89	100	100	100
Unit 4	100	100	100	100
Unit 5	100	100	100	98
Unit 6	100	100	100	100

September 2025

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

October 2025

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	99.9	98.4	100.0	100.0
Unit 2	88.8	98.4	98.4	98.4
Unit 3	100.0	100.0	100.0	99.7
Unit 4	100.0	99.9	99.9	99.7
Unit 5	100.0	99.9	99.7	99.7
Unit 6	100.0	100.0	98.4	97.1

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November 2025

Associated Unit/Stack	PM	SO ₂	NO ₂	O ₂
Unit 1	100.0	100.0	100.0	100.0
Unit 2	100.0	100.0	100.0	100.0
Unit 3	100.0	99.8	99.8	99.4
Unit 4	100.0	99.8	99.8	99.8
Unit 5	100.0	99.9	99.2	99.9
Unit 6	100.0	100.0	99.9	99.9

December 2025

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	0.0	99.8	100.0	99.6
Unit 2	100.0	99.8	99.8	99.8
Unit 3	58.1	100.0	100.0	100.0
Unit 4	Off	Off	Off	Off
Unit 5	100.0	84.7	84.7	84.7
Unit 6	100.0	80.6	78.6	78.9

January 2026

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	100.0	100.0	100.0
Unit 2	100.0	100.0	100.0	98.3
Unit 3	90.0	96.8	96.8	96.8
Unit 4	Off	Off	Off	Off
Unit 5	93.8	100.0	99.9	99.6
Unit 6	96.0	92.1	91.1	92.6

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February 2026

Associated Unit/Stack	PM	SO ₂	NO	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	0.0	51.3
Unit 5	100.0	100.0	100.0	99.4
Unit 6	100.0	99.7	99.6	98.5

March 2026

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	100.0	96.6	100.0	100.0
Unit 2	100.0	96.6	96.6	96.6
Unit 3	100.0	100.0	88.7	100.0
Unit 4	97.3	91.5	92.9	77.5
Unit 5	Off	Off	Off	Off
Unit 6	100.0	99.8	99.8	99.8

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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 oxides (NO_x), 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 (January 2025 to December 2025)

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

Month	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	0	0	1	0	0	0	0
February	0	0	0	0	0	0	0
March	0	0	0	0	0	ND	2
April	3	0	7	0	0	0	0
May	1	0	1	0	0	0	0
June	2	0	3	0	0	0	0
July	1	0	1	0	0	0	0
August	1	0	0	0	0	1	ND
September	3	0	5	0	0	0	ND
October	0	0	9	0	0	1	8
November	ND	ND	ND	0	0	0	33
December	0	0	0	0	0	0	0
Total	11	0	27	0	0	2	43
Allowed number of exceedances	88	4	526	88	4	4	11

ND = no data

The area around the Medupi ambient air quality monitoring site is in non-compliant with the ozone national ambient air quality standards. These elevated ozone concentrations are attributed to multiple sources, including neighbouring third-party sources. There were no exceedances of the PM₁₀ daily limit, the SO₂ daily limit and the NO₂ hourly limit recorded during 2025 monitoring period. Though there were exceedances of the PM_{2.5} daily and the SO₂ 10-minutes and hourly limits recorded, the numbers were below the respective allowable number of exceedances per year.

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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 April 2025 to March 2026 is depicted in figure 6. 18 of the 20 dust buckets did not record any exceedances. Exceedances of Non-residential National Dust-fallout Regulation Limit (1200 mg/m²/days) were only recorded on two buckets as indicated in table 5 and figure 6 below. The station has submitted a dust management plan to the Licensing Authority.

Table 5: Fugitive Dust Buckets Exceedances

Monitoring Point	Number of Exceedances	Months and Dust fallout (mg/m ² /days)
D15a	6	Aug 2025 = 1830, Sep 2025 = 4039, Oct 2025 = 4645, Nov 2025 = 3398, Dec 2025 = 1892, Feb 2026 = 1701
D5a	3	Sep 2025 = 2970, Oct 2025 = 3979, Nov 2025 = 1838

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

Site ID	Location	Site Classification	Calendar Month Daily Average Dustfall Rates (mg/m ² /day) (Reported Rates)											
			2025-04	2025-05	2025-06	2025-07	2025-08	2025-09	2025-10	2025-11	2025-12	2026-01	2026-02	2026-03
D01	Matimba	Non-Residential	403	352	271	250	202	160	155	207	145	75	146	108
D02	Rail Crossing	Non-Residential	160	361	226	230	187	427	262	247	244	373	178	52
D03	Ash N	Non-Residential	111	275	244	110	181	263	789	838	693	175	255	206
D04	S of Crematorium	Non-Residential	251	384	305	300	297	213	231	177	115	168	231	140
D05a	Ash SW	Non-Residential	204	336	356	640	1 141	2 970	3 979	1 838	569	826	994	716
D06	Green building	Non-Residential	293	350	336	340	402	318	324	216	168	125	204	175
D07	Ash NE	Non-Residential	340	532	445	275	224	175	275	269	218	248	396	298
D08	Conveyor	Non-Residential	446	459	378	305	178	211	167	143	142	171	131	74
D09	Coal Stock NW	Non-Residential	308	350	273	233	213	236	278	150	136	175	150	116
D10a	Vlakpan Safaris	Non-Residential	362	405	361	346	288	213	209	164	164	146	282	254
D11a	Coal Stock WSW	Non-Residential	166	214	232	484	437	597	484	314	346		356	228
D12a	Game Farm South	Residential	152	155	122	110	175	129	93	66	56	67	59	56
D13	Game Farm Zebra	Non-Residential	214	261	229	273	388	405	337	254	308	993	443	158
D14	Game Farm Gate	Non-Residential	165	313	244	265	291	268	247	173	126	96	113	96
D15a	Ash S	Non-Residential	444	572	428	784	1 830	4 039	4 645	3 398	1 892	612	1 701	1 147
D16a	Coal Stock S	Non-Residential	362	312	259	338	392	1 143	1 143	366	207	256	433	332
D17	Road Far W	Non-Residential	251	260	230	259	235	178	228	146	121	135	145	155
D18	Game Farm Boundary	Non-Residential	425	268	248	199	152	145	181	156	348	54	138	97
D19	Coal Stock W	Non-Residential	171	328	305	356	299	389	326	263	142	158	226	176
D20	Coal Stock SW	Non-Residential	245	255	211	296	408	589	485	261	212	457	457	383
Notes	Exceedances of the Non-Residential Standard are highlighted in orange. Blank cells represent unavailable data. In some instances, the dustfall rate provided for a particular calendar month does not include all days within the calendar month, due to the sampling dates. As such, calendar months are reported with partial data. Corrected dustfall rates for each full calendar month can be requested. The dustfall rates for site D20 are based on 18 days (2026/03/14 - 2026/03/31)													

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Figure 6: Fugitive Dust Emissions
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	August 2025
	Gaseous parallel Measurements	August 2025
2	Particulate Matter Monitor Correlation Measurements	February 2025
	Gaseous parallel Measurements	November 2025
3	Particulate Matter Monitor Correlation Measurements	January 2026(Spot check)
	Gaseous parallel Measurements	October 2025
4	Particulate Matter Monitor Correlation Measurements	April 2026
	Gaseous parallel Measurements	April 2026
5	Particulate Matter Monitor Correlation Measurements	August 2025
	Gaseous parallel Measurements	August 2025
6	Particulate Matter Monitor Correlation Measurements	October 2025
	Gaseous parallel Measurements	October 2025

3 Operation and Annual Data Summaries

3.1 Coal Consumption

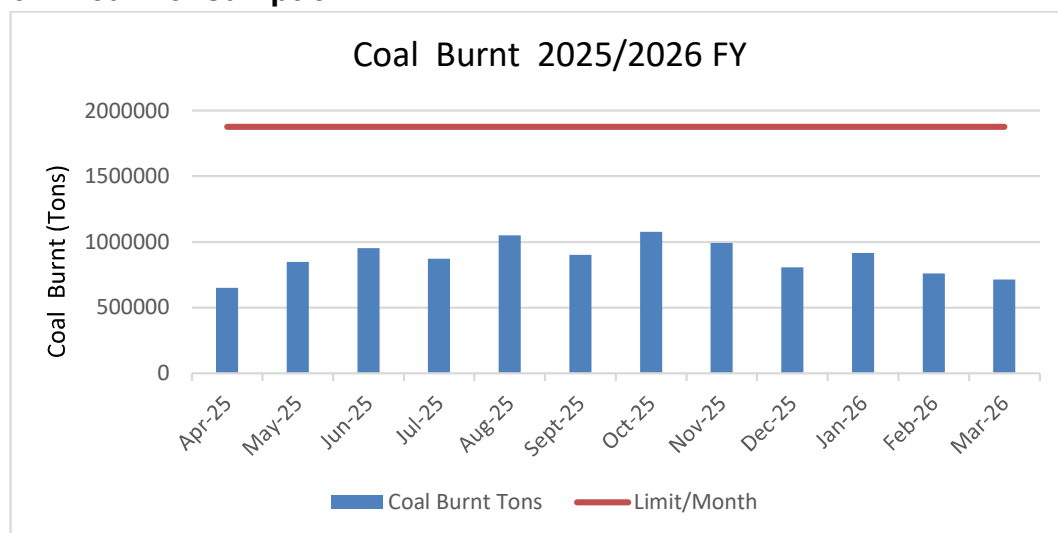


Figure 7: Medupi Power Station monthly coal consumption rate

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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. Consumption of coal was below the allowable AEL limit.

3.2 Fuel Oil consumption

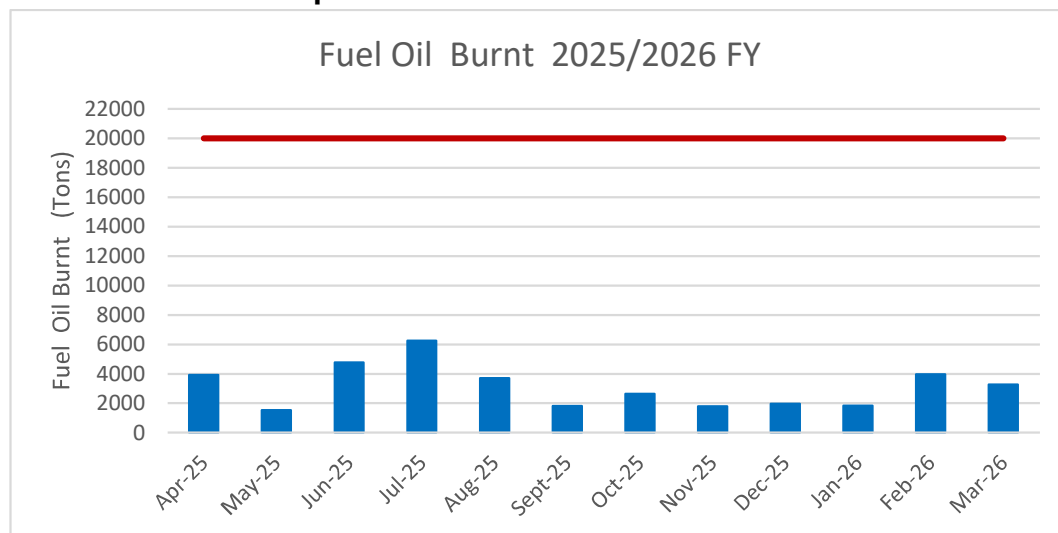


Figure 8: Medupi Power Station Fuel Oil Consumption

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 reports 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 2025 to March 2026.

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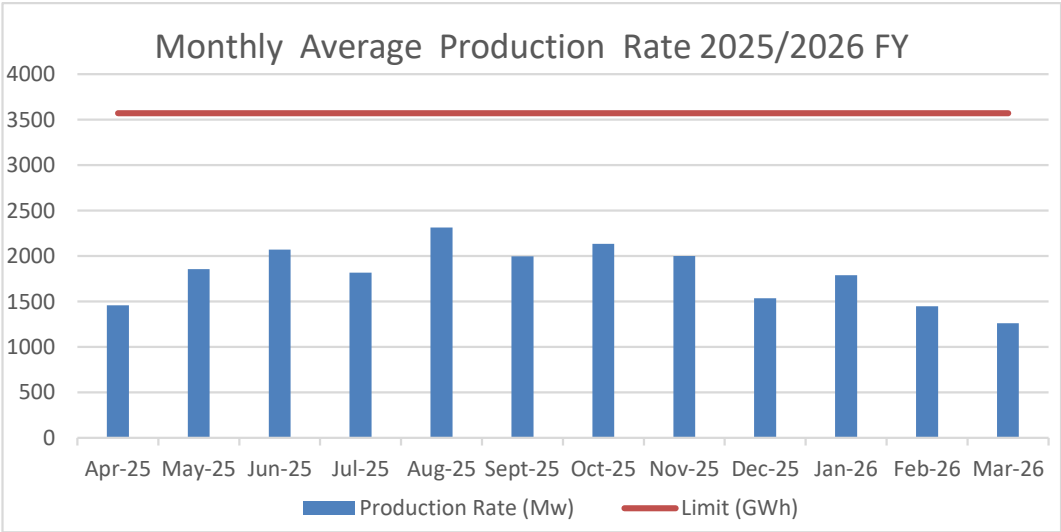


Figure 9: Average monthly production rate

4 Compliance Audit Report

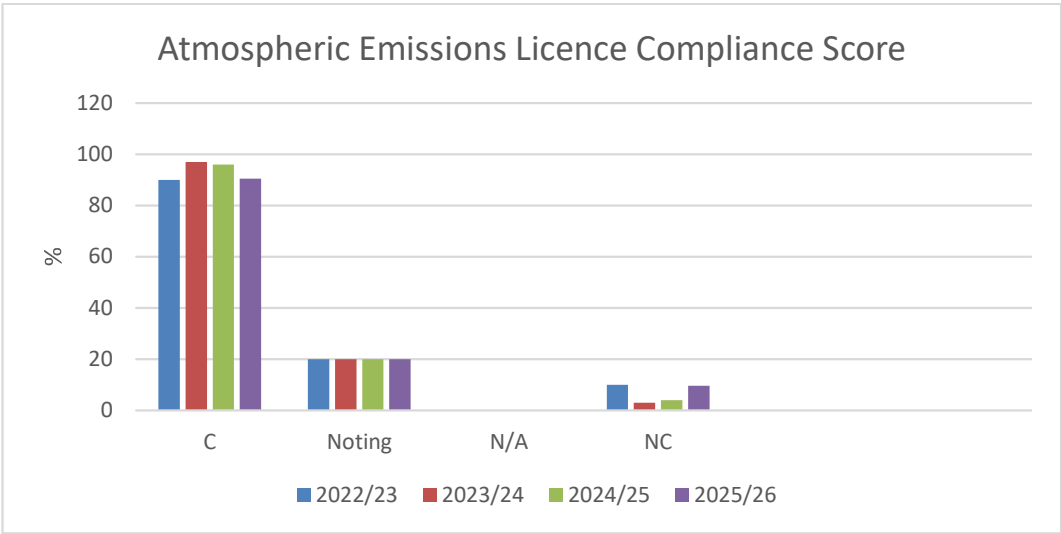


Figure 10: AEL Compliance status

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.

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Authorities are notified if there are any non-compliances, and action plans are drafted and submitted to the relevant authorities. The AEL compliance score for 2025/26 FY was 90.4%. Issues of non-compliance are indicated in table 7 below.

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Table 7: Status of AEL Non-compliances from the External Audit of 2025/2026 FY

	Condition	Finding /non-compliance	Recommendation	Target Date
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 SO ₂ 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 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 RFP for the EPC contract was issued to the market in September 2024 and closed on 29 May 2025 due to a 6-month bid period extension request from bidders. However, this was extended again to 02 February 2026 following requests from bidders and to have the Owner's Engineer /delivery partner on board. The project will be delivered post-2030.	Finalise the procurement of the FGD EPC contract	01 April 2030

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5. Start-Up, Maintenance, Shutdowns or malfunction occurrence and duration annual Statics 2025/2026 FY
Table 8: Medupi Power Station Planned Outages (Planned Maintenance)

UNITS	NOTIFICATION DATE	OUTAGE DESCRIPTION	ACTUAL START TIME	ACTUAL END TIME
6	2015/03/06 11:32:00	IR1	2025/03/29 02:26:00	2025/06/04 10:58:00
5	2025/04/02 08:38:00	Mill 30 re-build	2025/04/12 04:24:00	2025/05/10 04:20:00
1	2025/04/12 12:56:00	PA Fan Radial vain damper repairs	2025/04/17 09:03:00	2025/04/23 13:16:00
6	2024/10/16 21:38:00	GAH Seal Settings	2025/06/06 12:10:00	2025/06/09 14:46:00
2	2025/06/04 11:22:00	HP Turbine stop valve No.2 solenoid valve replacement	2025/06/22 01:01:00	2025/06/22 05:39:00
1	2025/06/02 08:40:00	Boiler beam holding dipper plate repairs	2025/07/01 22:18:00	2025/07/08 17:48:00
1	2025/07/09 11:25:00	PA Fan 1 Replacement	2025/07/11 22:23:00	2025/07/19 00:22:00
4	2025/07/02 20:13:00	GAH Top seal settings	2025/07/12 04:20:00	2025/07/12 16:19:00
6	2025/07/15 15:52:00	Boiler circ pump repairs	2025/07/30 00:00:00	2025/08/03 00:01:00
3	2025/07/31 09:20:00	ID fan blade replacement	2025/08/17 23:00:00	2025/08/23 10:13:00
2	2015/03/06 13:11:00	IR3	2025/08/25 20:09:00	2025/10/20 08:06:00
6	2025/09/03 08:39:00	SSC Repairs	2025/09/06 16:00:00	2025/09/08 20:23:00
4	2025/10/08 10:41:00	Islanding Test	2025/10/12 04:18:00	2025/10/12 04:38:00
2	2025/10/16 08:04:00	GAH Radial Seal Settings	2025/10/20 16:03:00	2025/10/21 06:29:00
3	2025/10/29 08:40:00	Boiler beam holding dipper plate repairs	2025/10/30 07:00:00	2025/11/04 07:03:00
1	2015/03/06 13:40:00	IR2	2025/11/17 21:16:00	2025/12/22 04:32:00
4	2025/11/27 16:41:00	Commissioning strainer removal and Burner Repairs	2025/12/13 13:49:00	2026/02/06 16:46:00
1	2025/07/19 18:16:00	GAH inspection and repairs and seal settings	2025/12/23 05:04:00	2025/12/23 17:18:00
5	2025/11/19 11:23:00	PA duct repairs	2025/12/23 07:30:00	2025/12/25 04:13:00
2	2026/01/14 08:18:00	Generator H2 leak repairs	2026/01/20 11:04:00	2026/01/23 12:25:00
5	2015/03/06 11:53:00	IR1	2026/02/23 16:00:00	2026/04/06 14:56:00

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Table 9: Medupi Power Station Unit trips 2025/2026 FY

UNIT	STARTDATE	REASON	ACTUALSTARTDATE	ACTUALENDDATE
1	2025/04/24 06:32:00	LH FD Fan Bearing Temp High	2025/04/24 06:32:00	2025/04/25 16:44:00
1	2025/06/04 04:41:00	Unit 1 turbine tripped due to generator protection trip.	2025/06/04 04:41:00	2025/06/04 14:30:00
1	2025/07/21 07:13:00	Boiler tripped on eco flow low.	2025/07/21 07:13:00	2025/07/21 17:10:00
1	2025/07/22 09:04:00	Unit tripped on boiler eco flow low	2025/07/22 09:04:00	2025/07/23 04:04:00
1	2025/08/17 15:15:00	RH drought group tripped	2025/08/17 15:15:00	2025/08/18 00:16:00
1	2025/10/20 10:41:00	U1 tripped on Eco flow low	2025/10/20 10:41:00	2025/10/20 18:36:00
1	2026/01/08 01:54:00	Turbine tripped on HP exhaust temp high	2026/01/08 01:54:00	2026/01/08 15:37:00
1	2026/01/19 15:12:00	Unit 1 tripped on HP turbine stress	2026/01/19 15:12:00	2026/01/19 16:21:00
1	2026/01/24 21:56:00	Turbine hydraulic pressure low	2026/01/24 21:56:00	2026/02/16 12:08:00
1	2026/03/11 08:38:00	HP turbine stress	2026/03/11 08:38:00	2026/03/11 21:16:00
1	2026/03/12 02:02:00	IP turbine radial bearing temperature high.	2026/03/12 02:02:00	2026/03/12 14:56:00
1	2026/03/12 16:47:00	Turbine tripped on Turbine stress	2026/03/12 16:47:00	2026/03/13 07:38:00
1	2026/03/13 10:42:00	Super-heater Temp High	2026/03/13 10:42:00	2026/03/13 16:28:00
1	2026/03/14 03:57:00	trip block protection	2026/03/14 03:57:00	2026/03/14 04:30:00
2	2025/10/20 08:49:00	U2 tripped on RH Outlet 2 leg differential	2025/10/20 08:49:00	2025/10/20 10:03:00
2	2025/10/23 01:12:00	U2 tripped RH2 outlet temperature high	2025/10/23 01:12:00	2025/10/24 06:00:00
2	2025/11/08 13:31:00	Hydraulic pressure low	2025/11/08 13:31:00	2025/11/08 16:59:00
2	2025/11/09 10:31:00	Hydraulic pressure high	2025/11/09 10:31:00	2025/11/09 14:33:00
2	2025/11/16 17:01:00	U2 turbine tripped due to steam turbine control trip.	2025/11/16 17:01:00	2025/11/16 17:28:00
2	2025/11/18 15:49:00	Unit tripped due to reheater spray-water bad signal	2025/11/18 15:49:00	2025/11/19 00:21:00
2	2025/11/19 00:30:00	U2 tripped due to steam turbine hydraulic oil pressure high.	2025/11/19 00:30:00	2025/11/19 00:50:00
2	2025/11/28 20:52:00	U2 tripped on turbine control signal invalid	2025/11/28 20:52:00	2025/11/29 06:35:00

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2	2025/12/08 08:21:00	Boiler tripped due to superheater 3 outlet temp high.	2025/12/08 08:21:00	2025/12/08 09:40:00
2	2025/12/10 01:04:00	Turbine HP thrust bearing temperature bad signals	2025/12/10 01:04:00	2025/12/16 09:48:00
2	2025/12/16 13:33:00	Super heater 3 temp ROC	2025/12/16 13:33:00	2025/12/16 16:55:00
2	2026/01/26 03:28:00	Unit tripped due to reheater 2 outlet temp high	2026/01/26 03:28:00	2026/01/26 10:58:00
2	2026/02/06 08:31:00	LH DG tripped & RH DG tripped on suction pressure low	2026/02/06 08:31:00	2026/02/06 16:42:00
2	2026/03/14 08:54:00	Turbine tripped due to ACCCT level high	2026/03/14 08:54:00	2026/03/14 12:54:00
3	2025/05/05 20:24:00	Generator H20 stator coolant low	2025/05/05 20:24:00	2025/05/06 03:43:00
3	2025/05/12 21:48:00	HP turbine stress	2025/05/12 21:48:00	2025/05/13 01:35:00
3	2025/06/30 09:05:00	Turbine tripped on excitation trip	2025/06/30 09:05:00	2025/06/30 19:13:00
3	2025/08/23 19:51:00	Re heater outlet temp high.	2025/08/23 19:51:00	2025/08/24 08:13:00
3	2025/08/24 13:45:00	Unit 3 Turbine Trip by Emergency Push Button	2025/08/24 13:45:00	2025/08/24 17:54:00
3	2025/08/28 17:55:00	Gen cold gas temp high	2025/08/28 17:55:00	2025/08/29 11:22:00
3	2025/11/18 16:54:00	Unit tripped due to PJFF DP high.	2025/11/18 16:54:00	2025/11/19 06:35:00
3	2026/01/19 11:14:00	U3 tripped ACCCT level high	2026/01/19 11:14:00	2026/01/20 00:34:00
4	2025/07/07 09:50:00	U4 tripped for Turbine Single valve operated	2025/07/07 09:50:00	2025/07/11 13:24:00
4	2025/07/16 00:04:00	Re-heater 1 outlet temp high	2025/07/16 00:04:00	2025/07/16 19:36:00
4	2025/07/16 22:32:00	Boiler tripped on Eco Flow Low	2025/07/16 22:32:00	2025/07/17 03:23:00
4	2025/07/17 16:56:00	U4 tripped on ECO flow	2025/07/17 16:56:00	2025/07/18 12:00:00
4	2025/07/19 07:15:00	Furnace pressure.	2025/07/19 07:15:00	2025/07/19 12:17:00
4	2025/08/04 10:12:00	Re heater outlet temp high	2025/08/04 10:12:00	2025/08/04 18:39:00
4	2025/08/09 05:39:00	Turbine tripped on Lube oil tank level low	2025/08/09 05:39:00	2025/08/10 00:30:00
4	2025/08/17 22:06:00	Turbine tripped due to ESV protection during PA check V/V PM	2025/08/17 22:06:00	2025/08/18 07:03:00
4	2025/08/31 22:12:00	U4 tripped Turbine single v/v operation	2025/08/31 22:12:00	2025/09/01 11:00:00
4	2025/10/09 18:17:00	Steam turbine hydraulic pressure low	2025/10/09 18:17:00	2025/10/09 20:01:00
4	2025/10/17 10:06:00	Turbine tripped due to hydraulic system faulty	2025/10/17 10:06:00	2025/10/17 11:06:00

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4	2025/10/17 11:09:00	Turbine tripped due to HP exhaust temp high	2025/10/17 11:09:00	2025/10/17 12:12:00
4	2025/10/27 11:23:00	Boiler Eco flow	2025/10/27 11:23:00	2025/10/27 16:35:00
4	2025/11/01 01:15:00	Eco flow low	2025/11/01 01:15:00	2025/11/01 14:40:00
4	2026/02/06 17:21:00	U4 tripped on Turbine speed	2026/02/06 17:21:00	2026/02/10 18:20:00
4	2026/02/12 02:10:00	Turbine exhaust steam temp	2026/02/12 02:10:00	2026/02/12 04:18:00
4	2026/03/12 07:02:00	Boiler trip on no draught group in service	2026/03/12 07:02:00	2026/03/13 09:51:00
4	2026/03/13 12:09:00	Eco Flow Low	2026/03/13 12:09:00	2026/03/14 02:37:00
5	2025/04/24 15:14:00	Re-heater temperature high.	2025/04/24 15:14:00	2025/04/26 02:30:00
5	2025/04/27 04:33:00	Eco flow low	2025/04/27 04:33:00	2025/04/27 12:55:00
5	2025/06/03 07:50:00	Unit tripped due to Reheater temp high.	2025/06/03 07:50:00	2025/06/03 14:14:00
5	2025/07/16 09:30:00	Turbine tripped due to stator water conductivity high.	2025/07/16 09:30:00	2025/07/16 10:37:00
5	2025/07/21 02:54:00	Turbine tripped due to single valve operation	2025/07/21 02:54:00	2025/07/21 09:08:00
5	2025/08/03 01:43:00	Boiler tripped due to no mills in operation	2025/08/03 01:43:00	2025/08/03 21:13:00
5	2025/10/07 00:40:00	U5 tripped ACCCT high	2025/10/07 00:40:00	2025/10/07 16:05:00
5	2025/12/26 23:07:00	Re-heater 2 leg different	2025/12/26 23:07:00	2025/12/26 23:58:00
5	2025/12/27 03:16:00	Eco flow low.	2025/12/27 03:16:00	2025/12/28 12:58:00
5	2026/01/25 15:55:00	U5 Boiler tripped due to RH temp high	2026/01/25 15:55:00	2026/01/27 07:08:00
5	2026/02/04 18:36:00	Boiler manually tripped due to unstable furnace pressure	2026/02/04 18:36:00	2026/02/05 11:50:00
5	2026/02/12 20:29:00	Eco flow low	2026/02/12 20:29:00	2026/02/13 03:55:00
5	2026/02/16 18:03:00	Re-heater 1 temp high	2026/02/16 18:03:00	2026/02/17 02:58:00
6	2025/06/04 21:55:00	U6 turbine tripped due to vibrations high.	2025/06/04 21:55:00	2025/06/05 22:00:00
6	2025/06/14 15:56:00	Unit turbine tripped on gen protection trip.	2025/06/14 15:56:00	2025/06/15 00:06:00
6	2025/06/23 12:37:00	Turbine tripped on TCT level high	2025/06/23 12:37:00	2025/06/23 16:24:00
6	2025/06/25 20:59:00	U6 tripped due to Generator excitation trip	2025/06/25 20:59:00	2025/06/25 23:08:00
6	2025/09/09 20:36:00	11kv unit 6 board 2 tripped on arc protection	2025/09/09 20:36:00	2025/09/10 12:52:00

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6	2025/09/11 17:06:00	Unit tripped due to water steam cycle protection	2025/09/11 17:06:00	2025/09/12 01:20:00
6	2025/09/18 05:00:00	Unit turbine tripped due to HP cooling stress high.	2025/09/18 05:00:00	2025/09/18 10:29:00
6	2025/10/19 05:22:00	Turbine thrust position	2025/10/19 05:22:00	2025/10/19 09:43:00
6	2025/10/19 10:51:00	Turbine thrust position	2025/10/19 10:51:00	2025/10/19 15:12:00
6	2025/11/13 20:09:00	HP turbine shaft vibration	2025/11/13 20:09:00	2025/11/14 08:27:00
6	2025/11/15 01:28:00	Eco flow low	2025/11/15 01:28:00	2025/11/15 04:51:00
6	2025/11/26 10:40:00	Unit 6 tripped on FD fan 1 hydraulic tank temperature B over-range.	2025/11/26 10:40:00	2025/11/27 08:34:00
6	2025/11/27 11:31:00	U6 tripped due to loss of mills.	2025/11/27 11:31:00	2025/11/27 12:48:00
6	2025/12/06 10:51:00	400V essential board power loss	2025/12/06 10:51:00	2025/12/06 17:51:00
6	2025/12/06 19:27:00	U6 tripped due to superheater outlet temperature high.	2025/12/06 19:27:00	2025/12/07 00:56:00
6	2025/12/20 22:54:00	Turbine stop valves closed	2025/12/20 22:54:00	2025/12/20 23:23:00
6	2026/01/28 05:16:00	Turbine tripped on vibrations	2026/01/28 05:16:00	2026/01/28 18:19:00
6	2026/03/15 18:45:00	Re heater 1 outlet temp high	2026/03/15 18:45:00	2026/03/16 01:46:00
6	2026/03/24 22:32:00	Unit 6 tripped due 11KV board 2 arc protection operated.	2026/03/24 22:32:00	2026/03/26 16:55:00
6	2026/03/27 22:09:00	U6 tripped due to Turbine HP exhaust temperature high	2026/03/27 22:09:00	2026/03/28 15:00:00

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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 a weekly basis.

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

Yours sincerely

Compiled by:



Date: 2026/07/02

Fransie Mulaudzi

MEDUPI POWER STATION: GIT ENVIRONMENTAL MANAGEMENT

Reviewed by:



Date: 2026/07/02

Mokgadi Dikgale

MEDUPI POWER STATION: ENVIRONMENTAL MANAGEMENT MANAGER

Supported by:



Date: 2026/07/02

Khathu Mudzielwana

MEDUPI POWER STATION: ENGINEERING MANAGER

Approved by:



Date: 08/07/2026

Thozama Gangi

MEDUPI POWER STATION: GENERAL MANAGER