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C CSKOITI		Effective Date	January 2021		
		Review Date	January 2024		
Phumudzo Thivhafuni		D	ate: 2021/06/30		

Limpopo Dept. of Economic Development, Environment and Tourism Private Bag 9484 POLOKWANE 0700 Enquiries: TR. Rammutla Tel: 014 762 6375

ThivhafuniPO@ledet.gov.za

Ref: 12/4/12L-W2/A3 - Aug 2020 Rev.1

Dear Phumudzo

MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF AUGUST 2020

This document serves as the monthly report required in terms of Section 7.7.1 of Medupi Power Station Provisional Atmospheric Emission License (AEL), 12/4/12L-W2/A3.

This report is a reflection of Unit 2, 3, 4, 5 and 6 gaseous and particulate emissions performance against the AEL limit for the month of August 2020 only.

1. Raw Materials and Products

 Table 1: Quantity of raw materials and products for Unit 2, 3, 4, 5 and 6 in August 2020

Raw Materials and	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Unit 2, 3, 4, 5 and 6 consumption August 2020
Products	Coal	Tons/month	1 875 000	736 533
used	Fuel Oil	Tons/month	40 000	3172
Production Rates	Product/ By- Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Unit 2, 3, 4, 5 and 6 Production Rate in Month of August 2020
	Energy	MW	4 800	2854
	Ash Emitted	Tons/month	not specified	248,6

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Table 2: Daily consumption and production rates

	Report	able hou	irs of Op	peration	ı			Produ	uction	rate (M	W)
Date	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Coal usage	U2	U3	U4	U5	U6
01-August- 20	24,0	7,3	24,0	24,0	0,0	22624	593	436	513	533	0,0
02-August- 20	24,0	24,0	24,0	24,0	0,0	22838	592	480	513	475	0,0
03-August- 20	24,0	22,1	24,0	24,0	0,0	24580	599	649	541	509	0,0
04-August- 20	24,0	0,0	15,0	24,0	0,0	21383	589	612	520	516	0,0
05-August- 20	24,0	20,3	0,0	24,0	0,0	21316	564	761	316	523	0,0
06-August- 20	24,0	24,0	2,8	24,0	0,0	26431	569	735	473	476	322
07-August- 20	24,0	24,0	0,0	24,0	12,3	27773	557	761	504	435	586
07-August- 20	24,0	24,0	0,0	24,0	24,0	28951	568	724	723	527	617
09-August- 20	24,0	24,0	0,0	24,0	24,0	24755	598	643	0,0	550	488
10-August- 20	24,0	24,0	0,0	24,0	24,0	25165	594	729	0,0	542	460
11-August- 20	24,0	24,0	0,0	24,0	24,0	23566	581	655	0,0	549	491
12-August- 20	24,0	24,0	0,0	24,0	24,0	25989	582	758	0,0	513	582
13-August- 20	24,0	24,0	0,0	24,0	24,0	27422	579	794	0,0	511	666
14-August- 20	24,0	24,0	0,0	24,0	15,5	24795	587	786	0,0	502	713
15-August- 20	24,0	24,0	0,0	24,0	0,0	24796	587	779	0,0	502	487
16-August- 20	24,0	24,0	0,0	20,5	22,3	25488	578	701	0,0	447	692
17-August- 20	24,0	0,8	0,0	0,0	24,0	15496	572	453	0,0	0,0	648
18-August- 20	24,0	0,0	0,0	0,0	24,0	17458	578	0,0	0,0	484	650
19-August- 20	24,0	0,0	0,0	19,9	24,0	18955	584	0,0	0,0	578	650
20-August- 20	24,0	0,0	0,0	24,0	24,0	18210	579	18	0,0	542	650
21-August- 20	24,0	0,0	0,0	24,0	24,0	21258	586	454	0,0	580	622
22-August- 20	24,0	0,0	0,0	24,0	24,0	20659	616	533	0,0	580	632
23-August- 20	24,0	7,7	0,0	24,0	24,0	25494	613	702	0,0	552	569
24-August- 20	24,0	24,0	0,0	24,0	24,0	25278	591	724	0,0	552	588
25-August- 20	24,0	24,0	0,0	24,0	24,0	23488	602	658	0,0	385	556
26-August- 20	24,0	24,0	0,0	24,0	24,0	26594	590	765	0,0	600	548
27-August- 20	24,0	24,0	0,0	24,0	24,0	25936	589	724	0,0	579	527
28-August- 20	24,0	24,0	0,0	24,0	24,0	26587	599	752	0,0	574	579
29-August- 20	24,0	24,0	0,0	24,0	24,0	25501	610	696	0,0	570	522
30-August- 20	24,0	24,0	0,0	24,0	24,0	25919	636	747	0,0	520	512
31-August- 20	24,0	24,0	0,0	11,9	24,0	21833	571	742	0,0	530	582

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2. Abatement Technology

 Table 3: Abatement Equipment Control Technology efficiency for month of August 2020

Associated Unit/Stack	Technology Type	Efficiency
Unit 1	Fabric Filter Plant (FFP)	-
Unit 2	Fabric Filter Plant (FFP)	99,930%
Unit 3	Fabric Filter Plant (FFP)	99,930%
Unit 4	Fabric Filter Plant (FFP)	99,905%
Unit 5	Fabric Filter Plant (FFP)	99,873%
Unit 6	Fabric Filter Plant (FFP)	99,793%

3. Energy Source Characteristics

Table 4: Energy Source Material Characteristics for the month of August 2020

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	1.370		
Ash Content	35 - 39	33.800		

Table 5: Energy Source Material Characteristics for the month of August 2020

Characteristic	Stipulated Range (%)	Monthly Average Content (%)		
	Oil			
Sulphur Content	0.5 - 3.5	2.2		
Ash Content	0.02 - 0.1	0.02		

4. Emissions Reporting

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

The emission limits are as follows:

 SO_2 Monthly = 3500 mg/Nm³

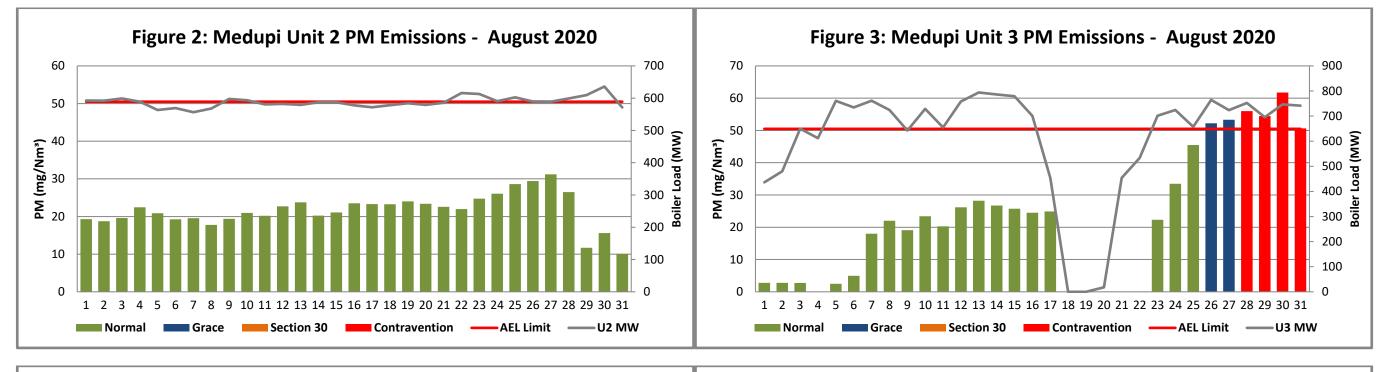
Dust Daily= 50 mg/Nm³

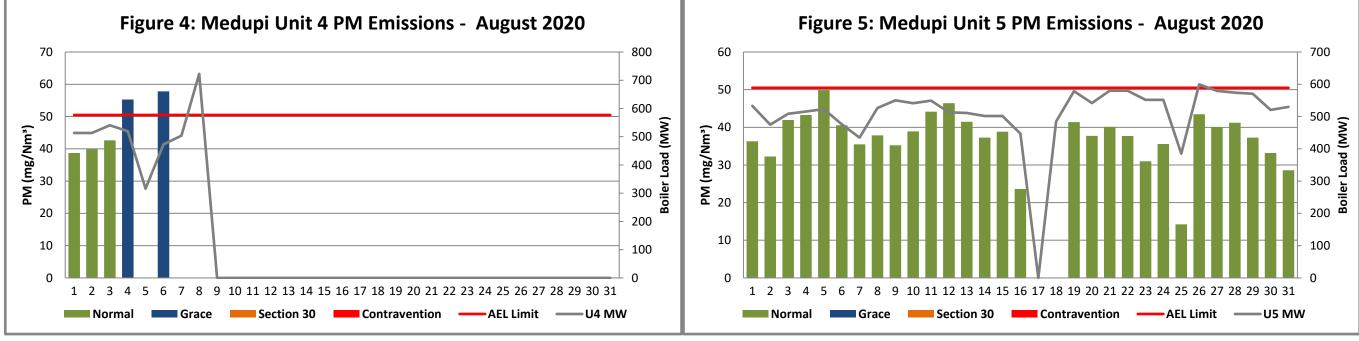
NO₂ Daily= 750 mg/Nm³

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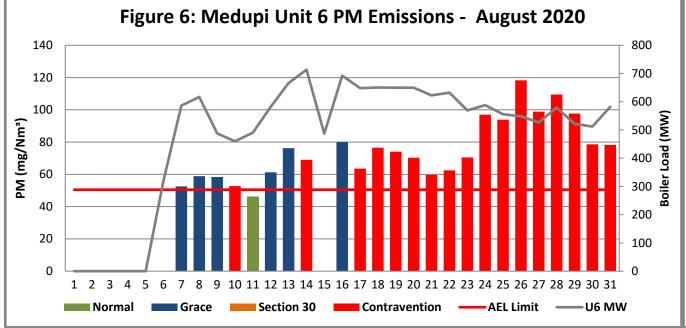


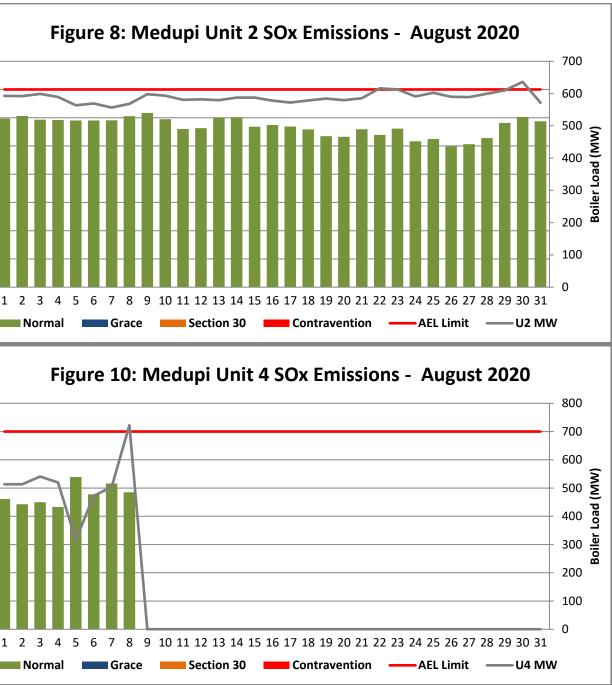
Medupi Power Station graphical representation of the daily average emissions for particulates

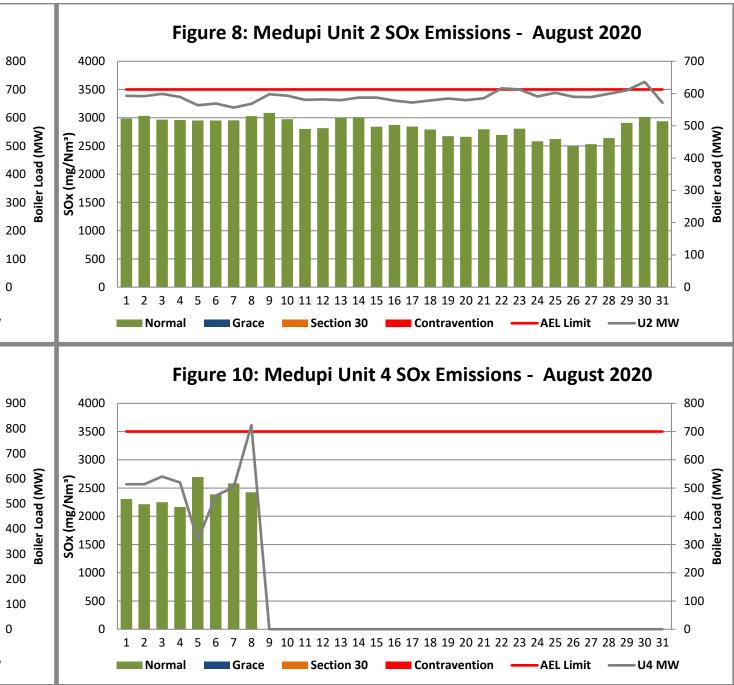
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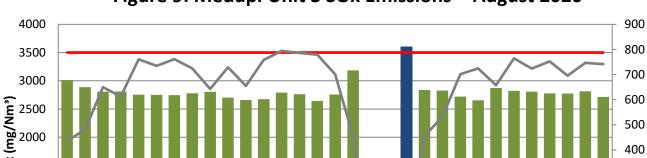
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100

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—U3 MW



Š 1500

1000

500

0

1 2 3

Normal

- 5 6 9

Section 30

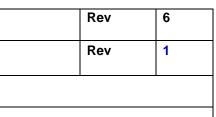
Grace

Figure 9: Medupi Unit 3 SOx Emissions - August 2020

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

AEL Limit

Contravention



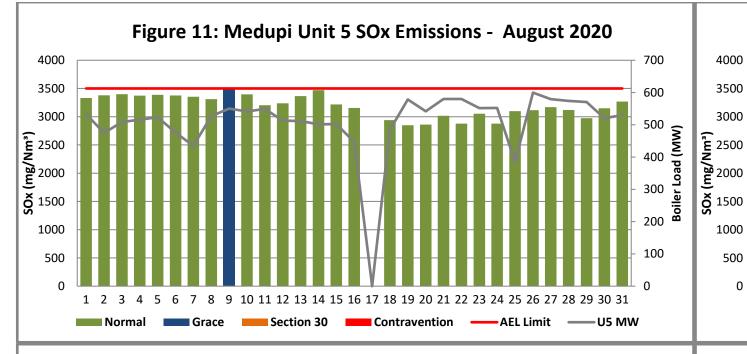
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4000

3500

3000

Normal



1000 500 ٥ 123 456 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Grace

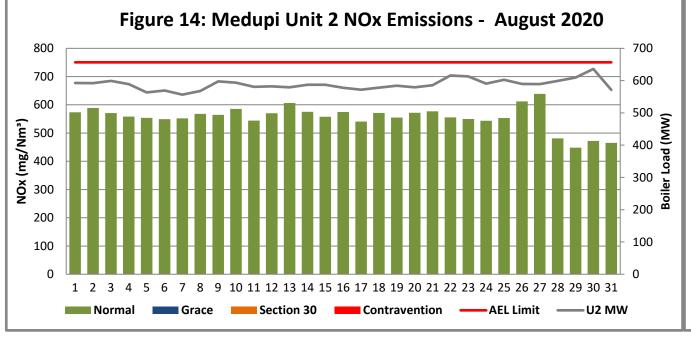
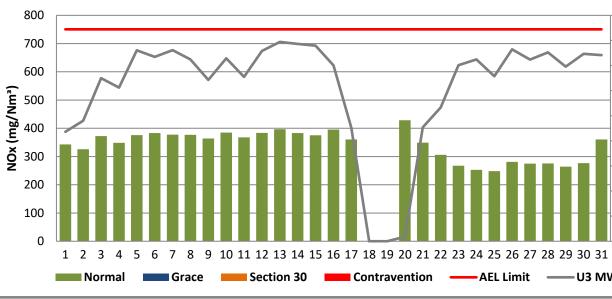


Figure 15: Medupi Unit 3 NOx Emissions - August 2020

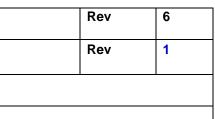
Section 30

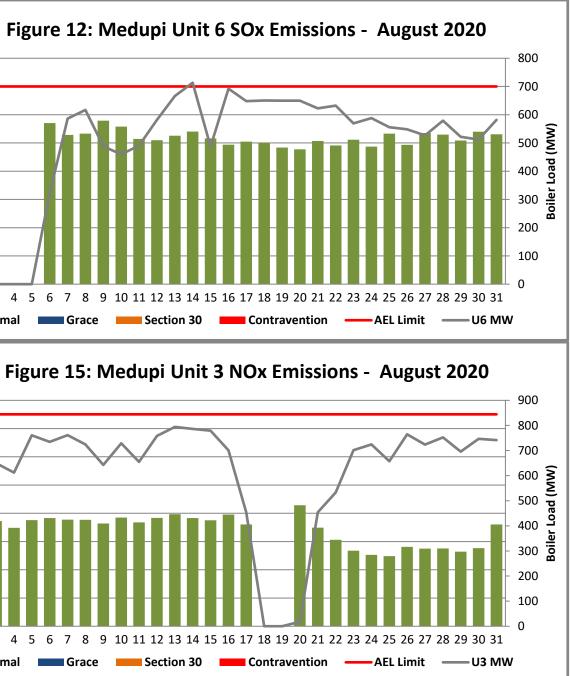
Contravention



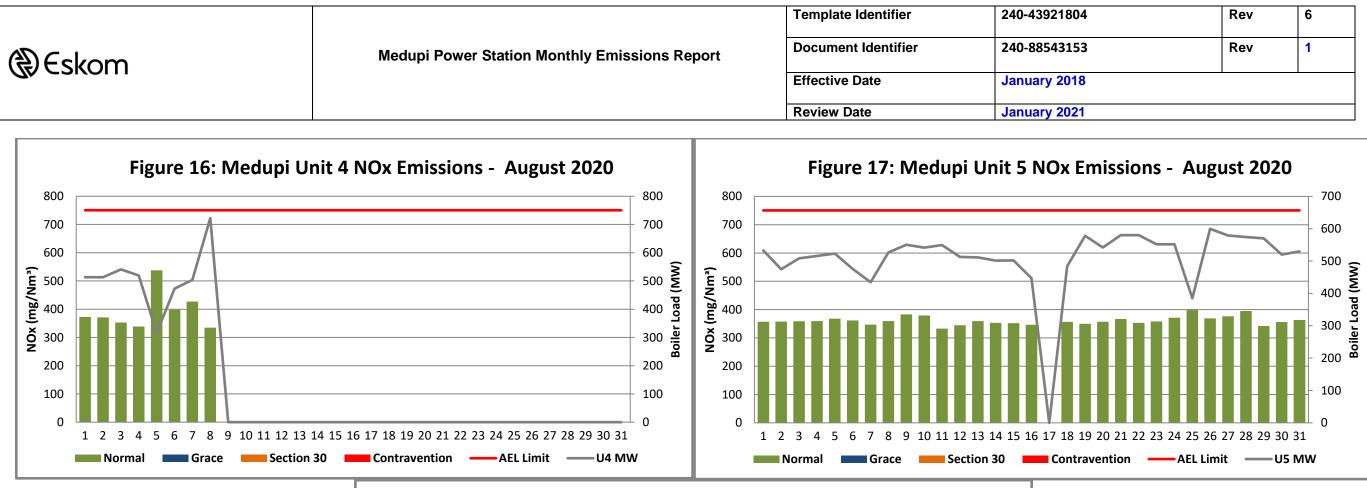
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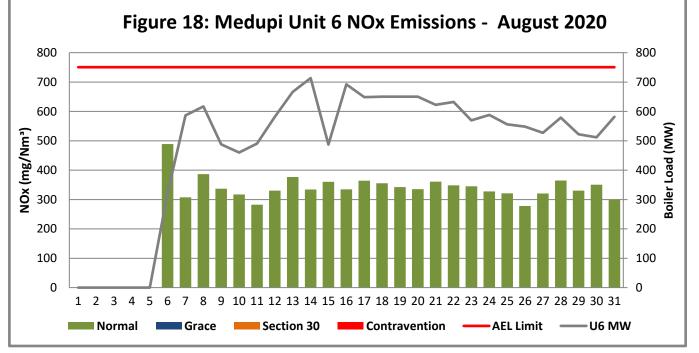
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Note: these graphs shall be read with table two in order to make sense of the days without emissions.

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Table 6: Monthly tonnages for the month of August 2020

Unit	PM (tons)	SO ₂ (tons)	NO ₂ (tons)	CO (tons)
1	0.0	0	0	0
2	43,4	5 721	1 115	26
3	41,0	3 733	451	91
4	9,1	576	93	27
5	62,1	5 400	611	35
6	93,0	3 149	414	32
SUM	248,6	18 579	2 685	210

5. Comments on the performance and availability of each unit

SOx and NOx emissions were within the limit in all the unit during the month of August 2020. PM Exceedances on unit 3 and 6 were due to bag damages in the PJFF Plant, the exceedances are reported as contraventions. Unit 4 was not available for most of the month due to outages.

6. Continuous Emission Monitoring Systems (CEMS)

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

Table 7: Periods during which CEMS was inoperative

Date	Time	CEMS status	Comments
N/A	N/A	N/A	N/A

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Table 8: CEMS Monitor Reliability

Associated Unit/Stack	РМ	SO₂	NO	02
Unit 1	n/a	n/a	n/a	n/a
Unit 2	100,0	99,9	99,9	99,9
Unit 3	100,0	96,4	96,4	96,4
Unit 4	100,0	99,4	99,4	99,4
Unit 5	100,0	100,0	99,2	99,8
Unit 6	100,0	99,7	98,8	99,2

7. CEMS Calibration certificates and equipment used for calibration

See attached Appendix A

8. Ambient Air Quality Monitoring Report

The Ambient Air Quality Monitoring and Dust fall-out report are emailed to the Licensing authority on a monthly basis.

9. Visual inspection of the exterior walls of the fuel oil tanks, fuel oil inventory data and TVOC Estimation

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

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Table 9: Total Volatile Organic Compound (TVOC) for August 2020

CALCULATION	I OF EMISSIONS OF TOTAL VOLATILE COMPO	UNDS FROM FUEL OIL ST	ORAGE TANKS
Date:	31 August 2020		
Station:	Medupi Power Station		
Province:	Limpopo Province		
Tank no.	1-2 Outdeer fuel eil storege teek		
Description:	Outdoor fuel oil storage tank		
Tank Type:	Vertical fixed roof (vented to atmosphere)		
Material stored:	Fuel Oil 150		
	MONTHLY INPUT DATA FOR TH		
	Please only insert relevant monthly data input		
	Choose from a dropdown menu in t The total VOC emissions for the month	-	
MONTH:	IMPORTANT: Do not change <u>any</u> other cells with		
-	August	Data	
GENERAL INFO		Data	Unit
Total number of	fuel oil tanks:	2 NA	
Height of tank:*		14.2	m
Diameter of tank		12	m
	ighput for the month:	<u>3172</u>	tons/month
Molecular weigh		166.00	Lb/lb-mole
METEROLOGIC	AL DATA FOR THE MONTH	Data	Unit
	nbient temperature	20.46	°C
Daily maximum a	mbient temperature	28.86	°C
Daily minimum aı	mbient temperature	12.76	°C
Daily ambient ter	nperature range	16.09	°C
Daily total insola	tion factor	4.23	kWh/m²/day
Fank paint colou	r	Aluminum/Specular	NA
Tank paint solar	absorbtance	0.39	NA
FINAL OUTPUT:		Result	Unit
Breathing losses	S:	0.72 kg/month	
Working losses:		0.09 kg/month	
TOTAL	(Total TVOC Emissions for the month):	0.82 kg/month	

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

No awareness campaign.

11. Complaints Register

Table 10: Complaints for the month of August 2020

Source Code/ Name	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	N/A	N/A	N/A	N/A

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Compiled by:	Lufuno Tshidzumba
Verified by:	Malose Langa System Engineer Boiler
Supported by:	Sithokozile Hlongwa_pp
Supported by:	Rosetta Rammutia_ <i>TR_Rammuttla</i> Environmental Manager
Supported by:	Jabulani Mkhatshwa

I Dan Mashigo, declares that the information provided in this report is accurate and correct.

Yours sincerely

Dan Mashigo

GENERAL MANAGER: MEDUPI POWER STATION (Acting)

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APPENDIX 1: CEMS Calibration certificates

	Elemental 12 Angelier Street, Bardene, BOKBBURG, 3A, 1459 PO Box 328, ISANDO, 3A, 1600 VAT REG #: 421 021 2249 Www.e-analytics.co.za Www.e-analytics.co.za				1459 DO, SA, 1600 21 2249		0861 000 0 +27 11 918 +27 11 89 2004/0076 alvtics.co.za	8 6994 4 1037 07/07	
CALIBRATION CERTIFICATE									
							CE	RTIFICA	ATE NO:
								364	1
CUST	OMER:		Esk	om Medupi			JOB NO:	SC1757	,
	ACT NA	MC-		to Sehume			TEL:	078 012	
		MC.						0/0 012	8030
MODE				odisch MGA	23	SERIAL NO:	15711		
AUXIL	JARY E	QUIPME	NT:			Unit 2			
C	IAN	PRIC	R	FINAL	TEST GAS	TEST GAS VALUE	GAS CERT		EXPIRY DATE
	Zero	-1 pp	m	0 ppm	GAS	20.95 %	NUME		N/A
co	Span	837 p		835 ppm	0	836.4 ppm	P20F00		2021-02-03
NO	Zero	-1 pp		0 ppm	Air	20.95 %	Alr		N/A
NO	Span	878 p	pm	877 ppm	NO	876.7 ppm	P20FO0	00346	2021-01-21
802	Zero	-15 p		0	Air	20.95 %	Alr		N/A
	Span	2203 p		2200 ppm	802	2200.0 ppm	P20FO0		2021-02-21
02	Zero Span	-0.08		0.00 %	N2 Air	99.99 %	9253 Alt		2021-02-27 N/A
REPORT: Inspect all sample lines, filters and coolers, filter elements need to be change. Calibrate analyser with zero and span gas, calibration was done according to cylinder values, analyser was responding to all test gas. Date of Calibration: 18 Aug 2020 Calibration Due Date: Nov 2020 Technician: J. Faber									
Bicler + Long SERVOMEX ACCOUNT AND A CONTRACT Document Number: TH-PFC-002-F1 Rev 2 Document Number: TH-PFC-002-F1 Rev 2									

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12 Angelier Street, Bardene, BOKSBURG, 3A, 1459 PO Box 328, ISANDO, 3A, 1600 VAT REG #: 421 021 2249 www.e-analytics.co.23 Tel: 0861 000 032 Intl. Tel: +27 11 918 6994 Fax: +27 11 894 1037 CO REG #: 2004/007607/07 Info@e-analytics.co.za

CALIBRATION CERTIFICATE

			CERTIFICATE NO:			
				3642		
CUSTOMER:	Eskom Medupi		JOB NO:	SC1757		
CONTACT NAME:	Lerato Sehume		TEL:	078 012 9038		
MODEL:	L: Dr Fodisch MGA 23 SERIAL NO:			15712		
AUXILIARY EQUIPM	Unit 3					

c	HAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
~~	Zero	-2 ppm	0 ppm	Air	20.95 %	Air	N/A
co	Span	839 ppm	835 ppm	co	836.4 ppm	P20F000332	2021-02-03
NO	Zero	-3 ppm	0 ppm	Air	20.95 %	Air	N/A
NO	Span	882 ppm	877 ppm	NO	876.7 ppm	P20F000346	2021-01-21
	Zero	0 ppm	0	Air	20.95 %	Air	N/A
802	Span	2249 ppm	2200 ppm	802	2200.0 ppm	P20F000345	2021-02-21
02	Zero	-0.05 %	0.00 %	N2	99.99 %	92520	2021-02-27
02	Span	20.97 %	20.95 %	Air	20.95 %	Air	N/A

REPORT: Inspect all sample lines, filters and coolers, filter elements need to be change. Calibrate analyser with zero and span gas, calibration was done according to cylinder values, analyser was responding to all test gas.

Date of Calibration: 18 Aug 2020 Calibration Due Date: Nov 2020 Technician: J. Faber

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Bitcher + Lang



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Tel: 0861 000 032 Intl. Tel: +27 11 918 6994 Fax: +27 11 894 1037 CO REG #: 2004/007607/07 Info@e=analytics.co.za

CALIBRATION CERTIFICATE

			CERTIFICATE NO:		
				3643	
CUSTOMER:	Eskom Medupi		JOB NO:	SC1757	
CONTACT NAME:	Lerato Sehume		TEL:	078 012 9038	
MODEL:	Dr Fodisch MGA 23	SERIAL NO:	13668		
AUXILIARY EQUIPM	Unit 4				

ci	HAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
~~	Zero	0 ppm	0 ppm	Air	20.95 %	Air	N/A
co	Span	833 ppm	835 ppm	co	836.4 ppm	P20F000332	2021-02-03
NO	Zero	-2 ppm	0 ppm	Air	20.95 %	Air	N/A
NO	Span	878 ppm	877 ppm	NO	876.7 ppm	P20F000346	2021-01-21
	Zero	-9 ppm	0	Air	20.95 %	Air	N/A
802	Span	2257 ppm	2200 ppm	802	2200.0 ppm	P20F000345	2021-02-21
02	Zero	0.12 %	0.00 %	N2	99.99 %	92520	2021-02-27
02	Span	21.04 %	20.95 %	Air	20.95 %	Air	N/A

REPORT: Inspect all sample lines, filters and coolers, filter elements need to be change. Calibrate analyser with zero and span gas, calibration was done according to cylinder values, analyser was responding to all test gas.

Date of Calibration: 17 Aug 2020 Calibration Due Date: Nov 2020 Technician: J. Faber

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Eskom		Template Identifier	240-43921804	Rev	6
	Medupi Power Station Monthly Emissions Report	Document Identifier	240-88543153	Rev	2
		Effective Date	January 2021		1
		Review Date	January 2024		



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CALIBRATION CERTIFICATE

			CE	RTIFICATE NO:		
				3644		
CUSTOMER:	Eskom Medupi		JOB NO:	SC1757		
CONTACT NAME:	Lerato Sehume		TEL:	078 012 9038		
MODEL:	Dr Fodisch MGA 23 SERIAL NO:			13670		
AUXILIARY EQUIPME	Unit 5					

c	HAN	PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
~~	Zero	-25 ppm	0 ppm	Air	20.95 %	Air	N/A
co	Span	815 ppm	835 ppm	co	836.4 ppm	P20F000332	2021-02-03
NO	Zero	-18 ppm	0 ppm	Air	20.95 %	Air	N/A
NO	Span	857 ppm	877 ppm	NO	876.7 ppm	P20F000346	2021-01-21
	Zero	-34 ppm	0	Air	20.95 %	Air	N/A
802	Span	2236 ppm	2200 ppm	802	2200.0 ppm	P20F000345	2021-02-21
02	Zero	0.06 %	0.00 %	N2	99.99 %	92520	2021-02-27
02	Span	21.13 %	20.95 %	Air	20.95 %	Air	N/A

REPORT: Inspect all sample lines, filters and coolers, filter elements need to be change. Calibrate analyser with zero and span gas, calibration was done according to cylinder values, analyser was responding to all test gas.

Date of Calibration: 17 Aug 2020 Calibration Due Date: Nov 2020 Technician: J. Faber

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		Template Identifier	240-43921804	Rev	6
Eskom	Medupi Power Station Monthly Emissions Report	Document Identifier	240-88543153	Rev	2
		Effective Date	January 2021	1	
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CALIBRATION CERTIFICATE

			CERTIFICATE NO:			
		3645				
CUSTOMER:	Eskom Medupi		JOB NO:	SC1757		
CONTACT NAME:	Lerato Sehume		TEL:	078 012 9038		
MODEL:	Dr Fodisch MGA 23 SERIAL NO:			13669		
AUXILIARY EQUIPM	Unit 6					

CHAN		PRIOR	FINAL	TEST GAS	TEST GAS VALUE	GAS CERTIFICATE NUMBER	EXPIRY DATE
co	Zero	-5 ppm	0 ppm	Air	20.95 %	Air	N/A
	Span	831 ppm	835 ppm	co	836.4 ppm	P20F000332	2021-02-03
NO	Zero	-15 ppm	0 ppm	Air	20.95 %	Air	N/A
	Span	868 ppm	877 ppm	NO	876.7 ppm	P20F000346	2021-01-21
802	Zero	-83 ppm	0	Air	20.95 %	Air	N/A
	Span	2389 ppm	2389 ppm	802	2200.0 ppm	P20F000345	2021-02-21
02	Zero	-0.36 %	0.00 %	N2	99.99 %	92520	2021-02-27
	Span	21.34 %	20.95 %	Air	20.95 %	Air	N/A

REPORT: Inspect all sample lines, filters and coolers, filter elements need to be change. SO2 cell diagnostics is low and cell does not calibrate on cylinder value, but cell is still reacting, and O2 cell sensitivity start to go down. Calibrate analyser with zero and span gas, calibration was done according to cylinder values, analyser was responding to all test gas.

Date of Calibration: 17 Aug 2020 Calibration Due Date: Nov 2020 Technician: J. Faber

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