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		Effective Date	January 2021		1
		Review Date	January 2024		

Phumudzo Thivhafuni Limpopo Dept. of Economic Development, Environment and Tourism Private Bag 9484 POLOKWANE 0700

Date: 2021/07/15 Enquiries: TR. Rammutla Tel: 014 762 6375

ThivhafuniPO@ledet.gov.za

Ref: 12/4/12L-W2/A3 – Mar 2020 Rev1.

Dear Phumudzo

MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF MARCH 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 March 2020 only.

1. Raw Materials and Products

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

Raw Materials and	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Unit 2,3, 4, 5 and 6 consumption March 2020
Products	Coal	Tons/month	1 875 000	662 052
used	Fuel Oil	Tons/month	40 000	3 073
Production Rates	Product/ By- Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Unit 2, 3, 4, 5 and 6 Production Rate in Month of March 2020
	—	B 43 A /	4 000	2206
	Energy	MW	4 800	2206

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Date	Report	table ho	ours of (Operatio	n	Fue	l Consu	Imption	(tons)	Production (MW)	
	2	ŝ	4	ы	9		Oil		Coal	Units	
	Unit 2	Unit	Unit 4	Unit	Unit	Aux Boiler	Units	Total	Units	2,3,4,5 &6	
01- Mar-20	24,0	0,0	24,0	0,0	16,7	0.00	47	47	17233	1733,68	
02- Mar -20	24,0	0,0	24,0	0,0	0,0	0.00	364	364	20010	2020,39	
03- Mar -20	24,0	0,0	24,0	13,6	21,3	0.26	222	222	23009	2198,00	
04- Mar -20	24,0	0,0	24,0	24,0	24,0	0.00	160	160	22675	2122,46	
05- Mar -20	24,0	0,0	24,0	24,0	24,0	0.00	209	209	23917	2214,56	
06- Mar -20	24,0	0,0	24,0	24,0	14,4	1.03	17	18	22664	2252,77	
07- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	158	158	24980	2380,36	
07- Mar -20	24,0	0,0	3,1	24,0	23,6	0.05	74	74	21001	2430,82	
09- Mar -20	24,0	0,0	0,0	24,0	24,0	0.00	9	9	18285	1686,52	
10- Mar -20	24,0	0,0	0,0	24,0	2,6	0.59	51	52	16023	1566,09	
11- Mar -20	24,0	0,0	0,0	24,0	0,0	3.28	292	295	16870	1648,13	
12- Mar -20	24,0	0,0	0,0	24,0	0,0	0.00	90	90	15577	1628,09	
13- Mar -20	24,0	0,0	3,8	24,0	0,0	0.00	449	449	19528	1817,70	
14- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	64	64	20470	1913,85	
15- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	0	0	21011	1939,86	
16- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	0	0	20511	1949,92	
17- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	0	0	22310	2057,08	
18- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	2	2	21424	2027,98	
19- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	3	3	21175	1967,11	
20- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	3	3	20875	1923,27	
21- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	11	11	18631	1699,95	
22- Mar -20	1,7	0,0	24,0	24,0	0,0	1.88	276	278	21698	2022,18	
23- Mar -20	19,4	0,0	24,0	24,0	0,0	0.00	86	86	21148	1946,52	
24- Mar -20	24,0	0,0	24,0	24,0	0,0	1.60	121	123	23481	2302,24	
25- Mar -20	24,0	0,0	24,0	24,0	18,3	0.00	151	151	23824	2222,30	
26- Mar -20	24,0	0,0	24,0	24,0	24,0	0.00	45	45	21910	2034,09	
27- Mar -20	24,0	0,0	24,0	24,0	7,1	0.00	3	3	17976	1909,43	
28- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	27	27	17719	2293,44	
29- Mar -20	23,9	0,0	24,0	24,0	0,0	0.00	130	130	17742	1645,47	
30- Mar -20	0,0	0,0	24,0	24,0	0,0	0.00	0	0	19781	1866,36	
31- Mar -20	24,0	0,0	24,0	24,0	0,0	0.00	0	0	19100	1788,41	

Table 2: Daily consumption and production rates

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2. Abatement Technology

Table 3: Abatement Equipment Control Technol	logy utilisation for month of March 2020
---	--

Associated Unit/Stack	Technology Type	Efficiency
Unit 1	Fabric Filter Plant (FFP)	0
Unit 2	Fabric Filter Plant (FFP)	99,931%
Unit 3	Fabric Filter Plant (FFP)	0
Unit 4	Fabric Filter Plant (FFP)	99,836%
Unit 5	Fabric Filter Plant (FFP)	99,878%
Unit 6	Fabric Filter Plant (FFP)	99,863%

3. Energy Source Characteristics

 Table 4: Energy Source Material Characteristics for the month of March 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	1.55		
Ash Content	35 - 39	34.52		

4. Emissions Reporting

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

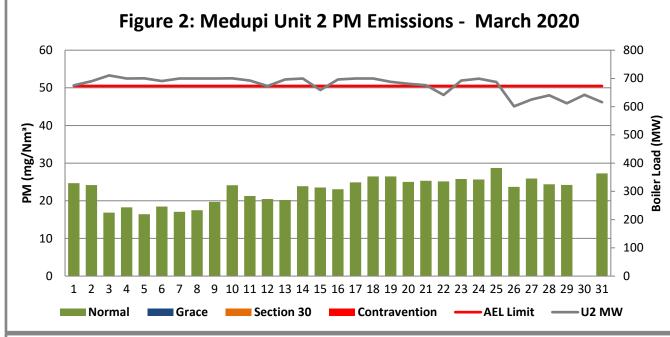
The emission limits are as follows:

 SO_2 Monthly = 3500 mg/Nm³ Dust Daily= 50 mg/Nm³ NO₂ Daily= 750 mg/Nm³

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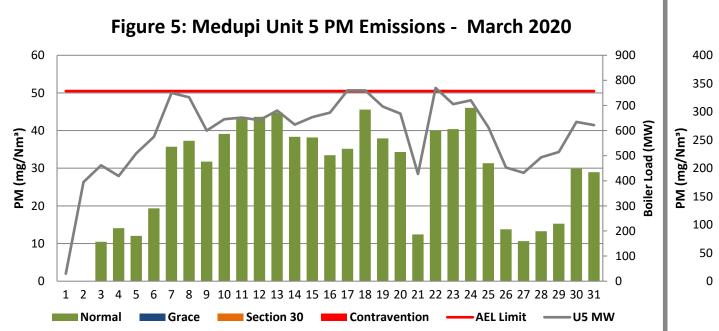
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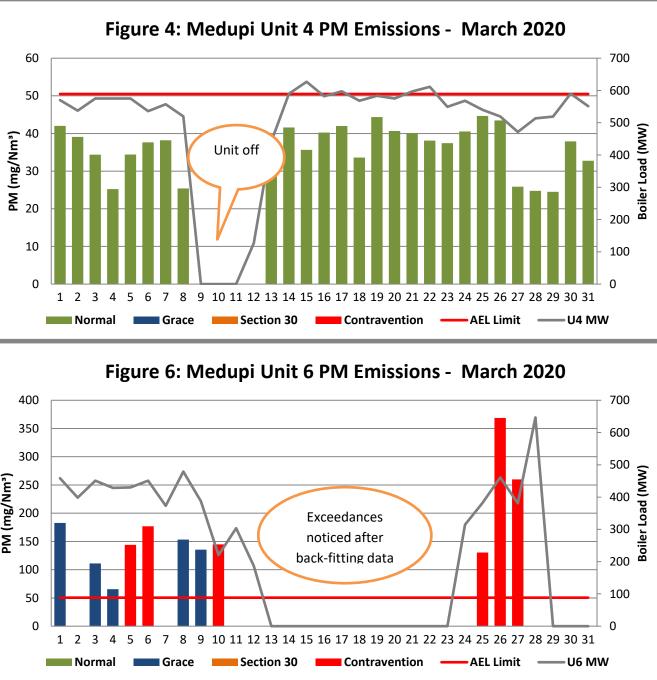
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Unit off

3 4 678 5 Section 30 Grace

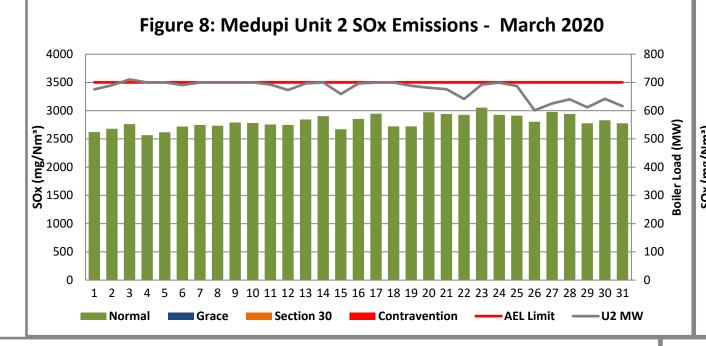




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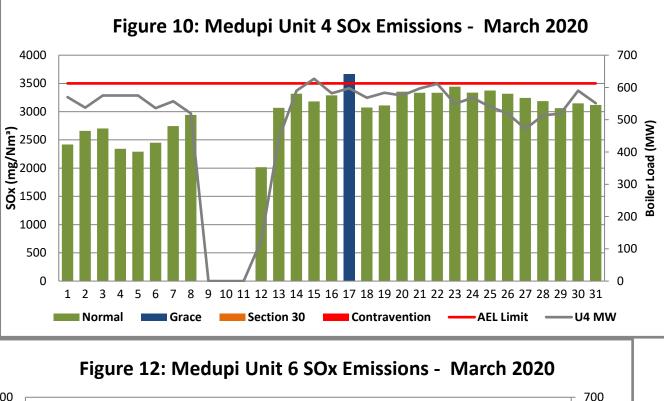
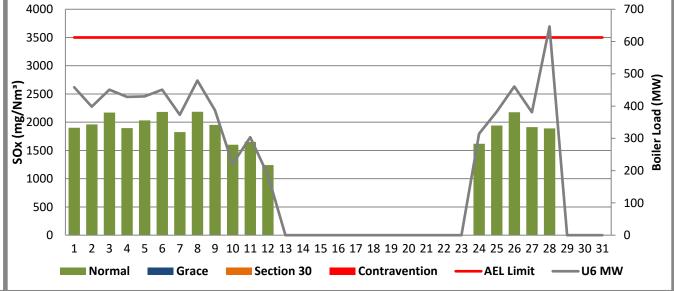


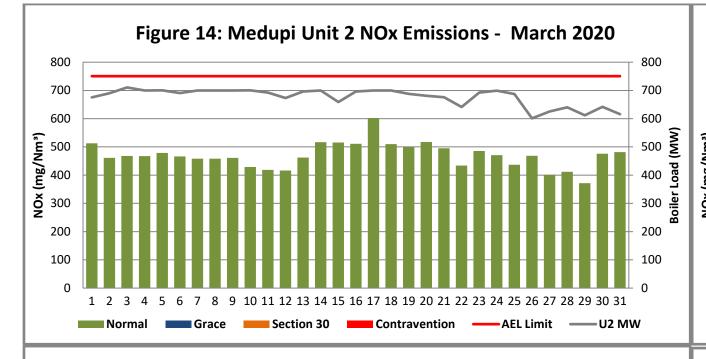
Figure 11: Medupi Unit 5 SOx Emissions - March 2020 4000 900 800 3500 700 3000 Boiler Load (MW) (Fundaments) (Fund 600 500 400 300 1000 200 500 100 0 Λ 123 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Δ 5 8 6 Normal Section 30 **Contravention** AEL Limit —U5 MW Grace



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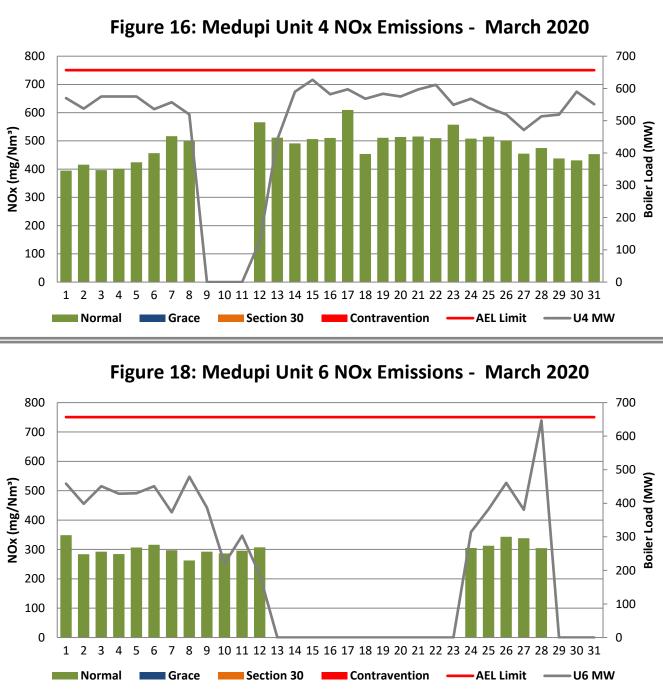
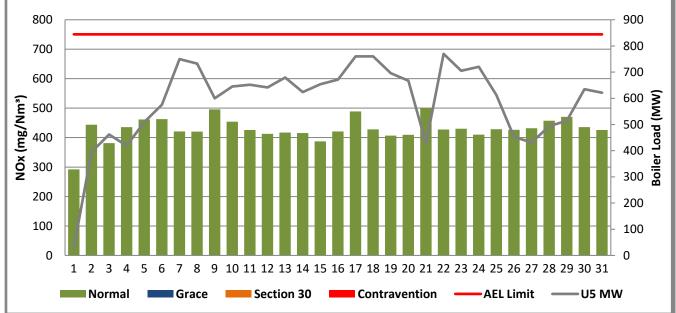
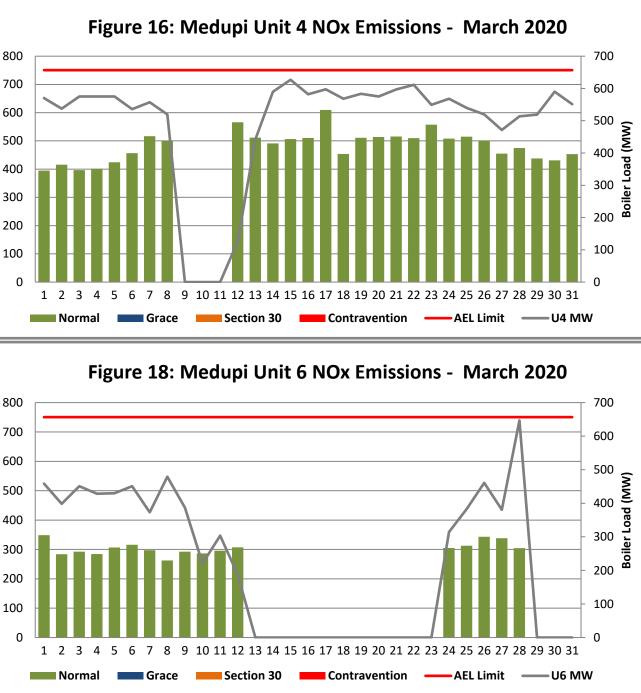


Figure 17: Medupi Unit 5 NOx Emissions - March 2020





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Table 5: Monthly tonnages for the month of March 2020

Associated Unit/Stack	РМ	SO₂	NO ₂	со
Unit 1	0.0	0	0	0
Unit 2	52,6	6 690	1 122	34
Unit 3	0,0	0	0	0
Unit 4	54,6	4 678	734	26
Unit 5	68,3	6 567	951	22
Unit 6	41,4	731	113	8
SUM	217,0	18 666	2 919	91

5. Comments on the performance and availability of each unit

Gaseous emissions on all units were within the limit for March reporting period. PM emission exceedances recorded for the month of March was at unit 6, these exceedances were picked during back-fitting of data and are reported as contraventions. The exceedances are linked to damaged bag from the PJFF plant.

6. Continuous Emission Monitoring Systems (CEMS)

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

Table 6: Periods during which CEMS was inoperative

Date	Time	CEMS status	Comments
N/A	N/A	N/A	Data for the reporting period is available

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Table 7: CEMS Monitor Reliability

Associated Unit/Stack	РМ	SO2	NOx	02
Unit 2	98,3	98,1	98,0	97,8
Unit 4	99,9	96,8	96,8	96,1
Unit 5	100,0	96,8	96,8	96,4
Unit 6	99,6	86,9	57,0	39,0

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 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 8: Total Volatile Organic Compound (TVOC) for March 2020

CALCULATION	N OF EMISSIONS OF TOTAL VOLATILE COMPO	OUNDS FROM FUEL OIL ST	ORAGE TANKS	
Date:	31 March 2020			
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 T	HE STATION		
	Please only insert relevant monthly data inpu			
	Choose from a dropdown menu in	•		
	The total VOC emissions for the month			
	IMPORTANT: Do not change any other cells wi	thout consulting the AQ CoE		
MONTH:	March			
GENERAL INFO	RMATION:	Data	Unit	
Total number of fuel oil tanks:		2	NA	
Height of tank:*		14.2	m	
Diameter of tank	c	12	m	
Net fuel oil thro	ughput for the month:	<u>3073</u>	tons/month	
Molecular weigh	nt of the fuel oil:	166.00	Lb/lb-mole	
METEROLOGIC	AL DATA FOR THE MONTH	Data	Unit	
Daily average ar	nbient temperature	23.67	°C	
Daily maximum a	imbient temperature	30.21	°C	
Daily minimum a	mbient temperature	17.89	°C	
Daily ambient te	mperature range	12.31	°C	
Daily total insola	tion factor	5.08	kWh/m²/day	
Tank paint colou	ır	Aluminum/Specular	NA	
Tank paint solar	absorbtance	0.39	NA	
FINAL OUTPUT:		Result	Unit	
Breathing losse	S:	0.68	0.68 kg/month	
Working losses:		0.09	kg/month	
TOTALLOCCE	(Total TVOC Emissions for the month):	0.77	kg/month	

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

No awareness campaign.

11. Complaints Register

Table 9: Complaints for the month of March 2019

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 Rammutla_ <i>TR_Rammutla</i> Environmental Manager
Supported by:	Jabulani Mkhatshwa Engineering Group Manager

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)

APPENDIX 1: CEMS Calibration certificates

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3

4

SPAN

ZERO

SPAN

2584 ppm

0.03 %

20.39

12 Angeller Street, Bardene, BOKSBURG, SA, 1459 PO Box 328, ISANDO, SA, 1600 VAT REG #: 421 021 2249 www.e-analytics.co.za

0861 000 032 Tel: Intl. Tel: +27 11 918 6994 Fax: +27 11 894 1037 CO REG #: 2004/007607/07

5905E

82410

15-05-202

N/A

31-08-20

In

CALIBRATION CERTIFICATE

							NO:		
								3416	
CUSTOMER:			Eskom Med	dupi		JOB N	0:	SC1665	
CONTACT NAME:		E:	Lerato Sehume			PHONE: 078 012 9038		9038	
MODEL:			Dr Fodisch MGA 23		SERIA	SERIAL NO: 13669			
AUXI	LIARYEQ	UIPMENT:	Unit 6						
c	HAN	PRIOR	FINAL	TEST GAS		I GAS	CERT	AS IFICATE MBER	EXPIRY DATE
	ZERO	1 ppm	0 ppm	Air	21.	0%		Air	N/A
1	SPAN	834 ppm	835 ppm	co	834.6	6 ppm	3204		03-02-2021
-	ZERO	-2 ppm	0 ppm	Air	21.	.0%		Air	N/A
2	SPAN	908 ppm	877 ppm	NO	876.1	7 ppm	12	2598	21-01-2021
	ZERO	~47 ppm	0 ppm	Air	21.	0 %		Air	N/A

REPORT: SO2 cell diagnostics is low and cell module should be inspected. Inspect all sample lines, filters and rotameter. Calibrate analyser with zero and span gas, calibration was done according to cylinder standards, analyser was responding to all test gas.

802

N2

02

2584 ppm

0.0%

20.95 9

2161.7 ppm

99.99 %

20.95 %

Date of Calibration:	25 Feb 2020	
Calibration Due Date:	May 2020	
Technician:	J Faber	
Æ		
Bialer+Lang		GMI 🛷
SERVOMEX		TELEDYNE ANALYTICAL INSTRUMENTS A Teledyne Technologies Company

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Image: State of the second							┝	CI		ENO:			
CONTACT NAME: Lerato Sehume PHONE: 078 012 9038 MODEL: Dr Fodisch MGA 23 SERIAL NO: 13670 AUXILIARYEQUIPMENT: Unit 5 Total September 2010 Serial No: 13670 MAN PRIOR TEST CAS GRATIFICATE NIA TEST CAS GRATIFICATE NIA 1 ZERO Depm Air NIA 1 ZERO Depm Air NIA 1 ZERO Depm Oppm Air NIA 1 ZERO Depm Oppm Air NIA 2 SRAN Stappm 07 507 ppm 12858 210 10 30 10 30 20201 2 SRAN Stappm 07 200 201 2116 70 9m Stope 10 60 2020 141 50 90 2020 4 SIRON 20.05 % 0.02 20 20 20 20 20 50 % Air NIA 2 SIRON 20.05 % 0.02 20 20 20 20 50 % Air NIA 3 SIRON 20.05 % 0.02 20 20 20 20 50 % Air NIA 3 SIRON 20.05 % 0.02 20 20 20 20 50 % Air		CUSTOMER	R:		Eskom Med	upi		JOB NO:		5			
AUXILLARYEQUIPMENT: Unit 5 Image: Construction of the second o		CONTACT	NAME:					PHONE:	078 012	9038	\neg		
Image: Constraint of the second se		MODEL:			Dr Fodisch MGA 23 SERIAL NO			D: 13670					
CHAN PRIOR FINAL GBAT TEST GAS CERTIFICATE 1 2ERO 3 ppm 0 ppm Air 21.0 % Air NA 2 3PAN 956 ppm 635 ppm 0 0 ppm Air 21.0 % Air NA 2 3PAN 944 ppm 977 ppm NO 876.7 ppm 12598 2101-0201 3 3PAN 2262 ppm 0.0 % No 876.7 ppm 12598 2101-0201 4 3PAN 2262 ppm 0.0 % No 876.7 ppm 12598 2101-0201 4 3PAN 2262 ppm 0.0 % No 205.7 ppm 12598 2101-0202 4 3PAN 2262 ppm 0.0 % No 205.8 % 224.10 31.09-0202 4 3PAN 206.9 % 0.0 % NO 20.2 9.9 % Air Nir Nir 4 SPAN 20.0 % M and cell module should be inspected. Inspect all sample lines, filters and rotameter. Calibration was done according to cylinder 5 Peb 2020 2 2 SPAN 20.6 % 2		AUXILIAR	YEQUIPI	MENT:	Unit 5								
1 3PAN 355 ppm 00 834.5 ppm 3204 03-02-2021 2 ZERO 0 ppm Air 21.0 % Air NiA 3 SPAN 944 ppm 01 02.10 % Air NiA 3 SPAN 944 ppm 04 ppm Air 21.0 % Air NiA 3 SPAN 924 ppm 02.252 ppm 02.0 2161.7 ppm 5905E 15-05-2020 4 ZERO 0.06 % N2 29.95 % 02.10.95 % NiA NiA 4 SPAN 92.629 % 20.55 % 02 20.95 % Air NiA 4 SPAN 90.66 % 02 20.95 % Air NiA 4 SPAN 90.66 % 02 90.95 % 82.410 310.98-2020 4 SPAN 90.56 % 02 90.95 % Air NiA 502 cell bration 20.55 % 02 20.95 % Air NiA 502 cell bration 25 Feb 2020 20.55 % Air NiA NiA <th></th> <th>CHAN</th> <th>I</th> <th>PRIOR</th> <th>FINAL</th> <th></th> <th></th> <th></th> <th colspan="2">ERTIFICATE</th> <th>E</th> <th></th> <th></th>		CHAN	I	PRIOR	FINAL				ERTIFICATE		E		
2 ZERO 0 ppm Air 21.0 % Air NiA 3 ZERO 19 ppm 0 ppm Air 21.0 % Air NiA 3 ZERO 19 ppm 0 ppm Air 21.0 % Air NiA 3 ZERO 19 ppm 0 ppm Air NiA 875.7 ppm 12598 21-01-2021 4 ZERO 0.6 % 0.0 % N2 99.99 % 82410 31-09-2020 4 ZERO 0.6 % 0.0 % N2 99.99 % 82410 31-09-2020 4 SPAN 20.69 % 20.95 % 0.0 2 20.95 % Air NiA SPAN 20.69 % 20.95 % 0.0 2 20.95 % Air NiA NIA SPAN 20.69 % 20.95 % 0.0 2 20.95 % Air NiA NIA NIA SPAN 20.69 % 20.95 % 0.0 2 20.95 % Air NiA SPAN 20.69 % 20.95 % 0.0 2 20.95 % </td <td></td> <td></td> <td>_</td> <td></td>			_										
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3 SPAN 2262 ppm 202 2161.7 ppm 5905E 15-05-2020 4 ZERO 0.0 % 0.0 % N2 99.99 % 82410 31-09-2020 4 SPAN 20.69 % 20.95 % O2 20.95 % Ar NIA REPORT: SO2 cell diagnostics is low and cell module should be inspected. Inspect all sample lines, filters and rotameter. Calibrate analyser with zero and span gas, calibration was done according to cylinder standards, analyser was responding to all test gas. Date of Calibration: 25 Feb 2020 Calibration Due Date: May 2020 Technician: J Faber		ZE	-										
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REPORT: SO2 cell diagnostics is low and cell module should be inspected. Inspect all sample lines, filters and rotameter. Calibrate analyser with zero and span gas, calibration was done according to cylinder standards, analyser was responding to all test gas. Date of Calibration: 25 Feb 2020 Calibration Due Date: May 2020 Technician: J Faber													
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		Effective Date	January 2021	•	
		Review Date	January 2024		



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									CERTIFICATE NO:			
CUSTOMER:			Eskom Med	JOB N	0:	SC1665	01665					
CONT	ACT NAM	E:	Lerato Sehu	PHONE: SERIAL NO:		078 012 9038 13668						
MODE	EL:		Dr Fodisch I									
AUXI	LIARYEQ	UIPMENT:	Unit 4									
c	HAN	PRIOR	FINAL	TEST GAS		GAS LUE	CERT	AS IFICATE MBER	EXPIRY DATE			
	ZERO	1 ppm	0 ppm	Air	21.	0%		Air	N/A			
1	SPAN	846 ppm	835 ppm	co		5 ppm		204	03-02-2021			
-	ZERO	-1 ppm	0 ppm	Air		0%		Air	N/A			
2	SPAN	920 ppm	877 ppm	NO	876.1	7 ppm	12	2598	21-01-2021			
3	ZERO	-31 ppm	0 ppm	Air	21.	0%		Air	N/A			
<u> </u>	SPAN	2384 ppm	2384 ppm	802	2161.	7 ppm	5905E		15-05-2020			
4	ZERO	0.07 %	0.0 %	N2		99 % 82410			31-08-2020			
-	SPAN	21.15 %	20.95 %	02	20.5	95 %	Air		N/A			
				as.								
Date o	of Calibrat	tion:	25 Feb 2020									
	of Calibrat ation Due		25 Feb 2020 May 2020									
Calibr		e Date: I										
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						-	CE	RTIFICATE 3412	NO:				
	CUST	OMER:		Eskom Med	lupi		JOB NO:	SC1665	;				
	CONT	ACT NAME	2	Lerato Sehu			PHONE:	078 012 9038					
	MODE			Dr Fodisch MGA 23 SERIAL NO				: 15711					
	AUXI	LIARYEQU	IPMENT:	Unit 2									
	c	HAN	PRIOR	FINAL	TEST GAS	TEST O VALU		GAS RTIFICATE NUMBER	EXPIRY DAT	TE.			
	1	ZERO SPAN	-2 ppm 839 ppm	0 ppm 835 ppm	Air	21.0 834.6 p		Air 3204	N/A 03-02-2021				
	2	ZERO	-4 ppm	0 ppm	Air	21.0		Air	N/A				
	-	SPAN	856 ppm	877 ppm	NO	876.7 p	-	12598	21-01-2021				
	3	ZERO SPAN	-38 ppm	0 ppm	Air	21.0		Air	N/A 15-05-2020				
		ZERO	2220 ppm 0.14 %	2220 ppm 0.0 %	802 N2	2161.7 99.99		5905E 82410	31-08-2020				
	4	SPAN	21.11%	20.95 %	02	20.95		Air	N/A				
	filters o standar Date o	nd rotamet rds, analyse of Calibrati	er. Calibrat r was respon on:	es is low and cell i e analyser with ze ading to all test g 25 Feb 2020	rro and spa								
		ation Due	Date:	May 2020									
	Techn	2		J Faber			G	M	•				
	Bik	zier+Lang							•				
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