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Phumudzo Thivhafuni		D	ate: 2021/07/15		

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 - Feb 2020 Rev1

Dear Phumudzo

## MEDUPI POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF FEBRUARY 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 February 2020 only.

### 1. Raw Materials and Products

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

Raw Materials and	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Unit 2,3, 4, 5 and 6 consumption February 2020
Products	Coal	Tons/month	1 875 000	660 004
used	Fuel Oil	Tons/month	40 000	2 708
Production Rates	Product/ By- Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Unit 2, 3, 4, 5 and 6 Production Rate in Month of February 2020
	Energy	MW	4 800	2304
	Ash Emitted	Tons/month	not specified	277.8

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#### Table 2: Daily consumption and production rates

	Report	able ho	ours of C	Operatio	n	Fu	el Cons	umption	(tons)	Production (MW)
Date	2	e	4	ß	9		Oil		Coal	Units
Date	Unit 2	Unit	Unit 4	Unit 5	Unit 6	Aux Boiler	Units	Total	Units	2,3,4,5 &6
01- Feb-20	24.0	0.0	24.0	24.0	24.0	0	2	2	24345	2354.3
02- Feb -20	24.0	0.0	24.0	24.0	24.0	0	19	19	24923	2366.7
03- Feb -20	24.0	0.0	24.0	24.0	24.0	0.539	1	1.539	23890	2207.5
04- Feb -20	24.0	0.0	24.0	24.0	24.0	0.47	28	28.47	24811	2316.5
05- Feb -20	24.0	0.0	24.0	24.0	24.0	0	0	0	25008	2183.6
06- Feb -20	24.0	0.0	24.0	24.0	24.0	0	12	12	25291	2236.6
07- Feb -20	24.0	0.0	24.0	24.0	24.0	0	33	33	24098	2298.3
07- Feb -20	24.0	0.0	24.0	24.0	24.0	0	75	75	26136	2347.6
09- Feb -20	24.0	0.0	24.0	24.0	12.2	0	18	18	24711	2269.9
10- Feb -20	24.0	0.0	24.0	24.0	4.7	0	106	106	25008	2534.2
11- Feb -20	24.0	0.0	24.0	24.0	24.0	0	66	66	25452	2417.0
12- Feb -20	24.0	0.0	24.0	24.0	24.0	0	53	53	25244	2419.5
13- Feb -20	24.0	0.0	24.0	24.0	24.0	0	79	79	21687	2434.3
14- Feb -20	24.0	0.0	24.0	24.0	24.0	0	193	193	22339	2501.3
15- Feb -20	24.0	0.0	24.0	24.0	7.2	1.7	197	198.75	23992	2533.1
16- Feb -20	24.0	0.0	24.0	24.0	0.0	0	159	159	24501	2300.4
17- Feb -20	24.0	0.0	7.1	24.0	6.2	0	58	58	25953	2427.7
18- Feb -20	24.0	0.0	6.8	24.0	24.0	0	56	56	23397	2365.8
19- Feb -20	24.0	0.0	24.0	24.0	24.0	0	10	10	22468	2535.1
20- Feb -20	24.0	0.0	24.0	24.0	24.0	0	25	25	23475	2212.8
21- Feb -20	24.0	0.0	24.0	24.0	24.0	0	17	17	23042	2050.9
22- Feb -20	24.0	0.0	24.0	24.0	24.0	0	187	187	20413	2199.5
23- Feb -20	24.0	0.0	24.0	24.0	24.0	0	324	324	23120	2104.3
24- Feb -20	24.0	0.0	24.0	24.0	11.8	0	37	37	20607	2095.0
25- Feb -20	24.0	0.0	24.0	24.0	1.3	0	181	181	15691	2241.6
26- Feb -20	24.0	0.0	24.0	13.3	24.0	0	554	554	16032	2256.4
27- Feb -20	24.0	0.0	14.8	0.0	21.2	0	47	47	17868	1980.7
28- Feb -20	24.0	0.0	3.0	0.0	0.0	0	12	12	18051	1597.5
29- Feb -20	24.0	0.0	24.0	0.0	17.5	0	157	157	18455	1718.7

## 2. Abatement Technology

Table 3: Abatement Equipment Control Technology utilisation for month of February 2020

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Associated Unit/Stack	Technology Type	Efficiency
Unit 1	Fabric Filter Plant (FFP)	-
Unit 2	Fabric Filter Plant (FFP)	99.950%
Unit 3	Fabric Filter Plant (FFP)	-
Unit 4	Fabric Filter Plant (FFP)	99.893%
Unit 5	Fabric Filter Plant (FFP)	99.809%
Unit 6	Fabric Filter Plant (FFP)	99.743%

## 3. Energy Source Characteristics

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

Characteristic	Stipulated RangeMonthly Average Content(% by weight on a dry basis)(% by weight on a dry basis)				
	Coal				
Sulphur Content	1.3 - 2.2	1.6			
Ash Content	35 - 39	34.1			

## 4. Emissions Reporting

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

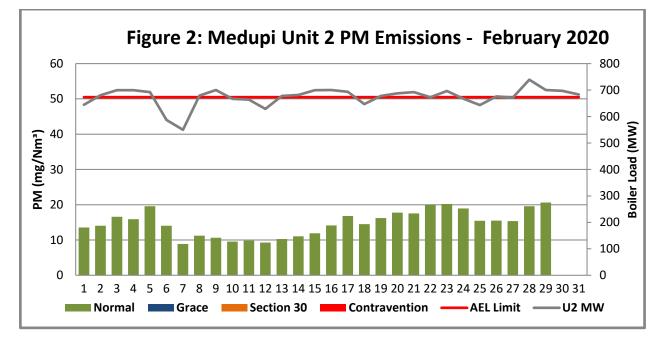
The emission limits are as follows:

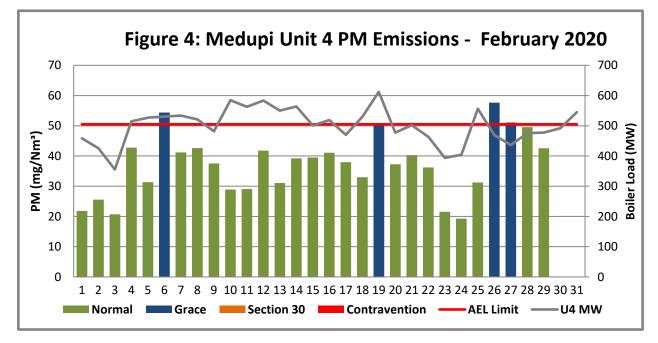
SO<sub>2</sub> Monthly = 3500 mg/Nm<sup>3</sup> Dust Daily= 50 mg/Nm<sup>3</sup> NO<sub>2</sub> Daily= 750 mg/Nm

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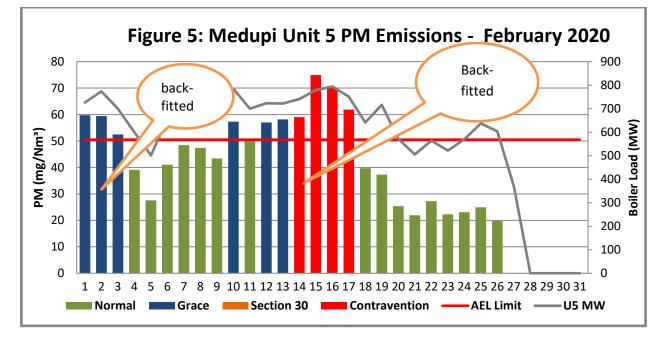
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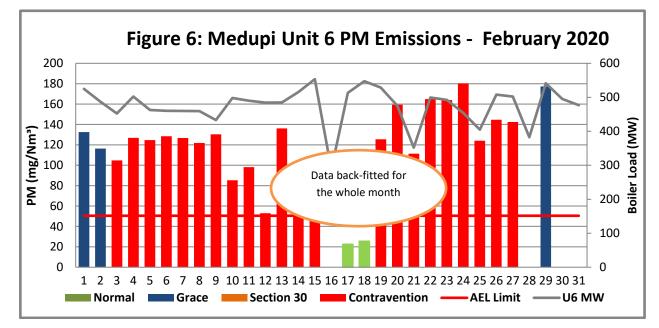




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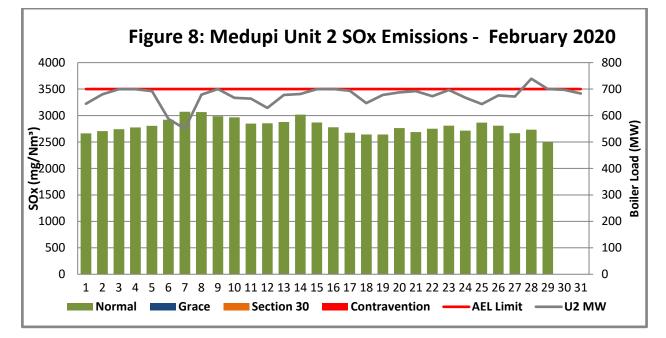
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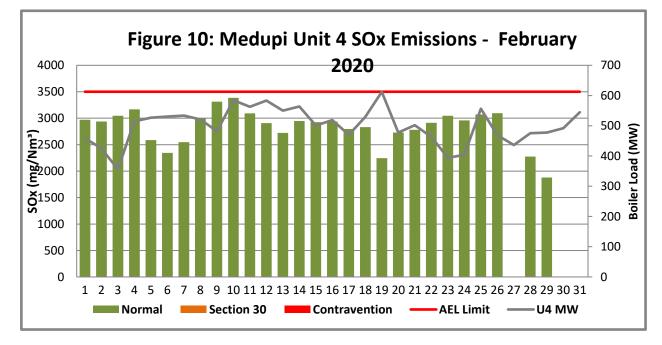




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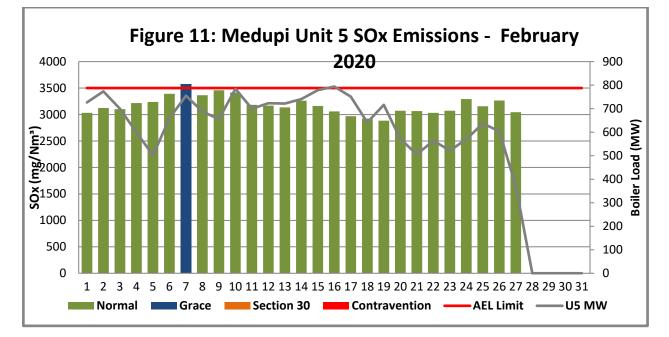
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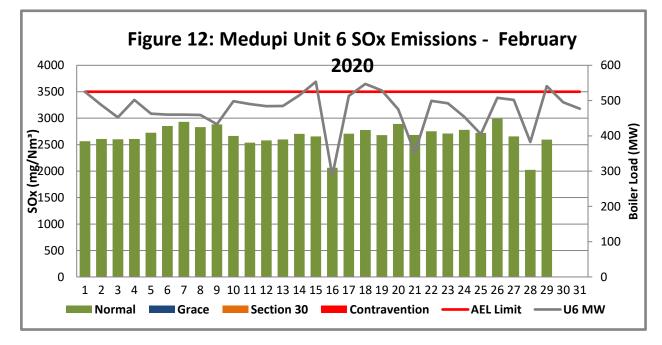




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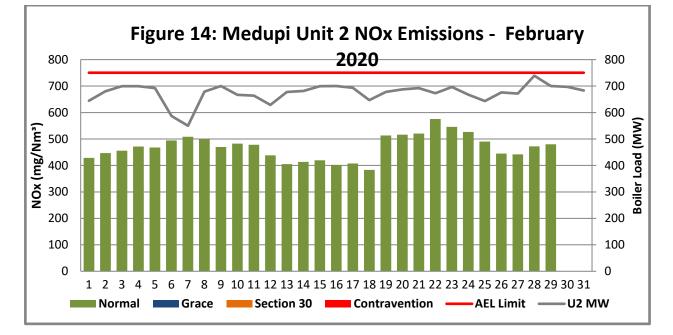
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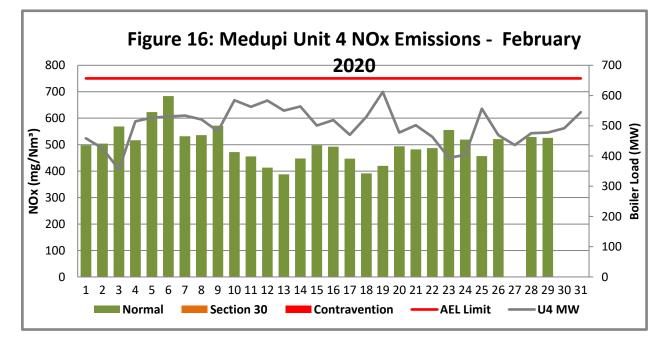




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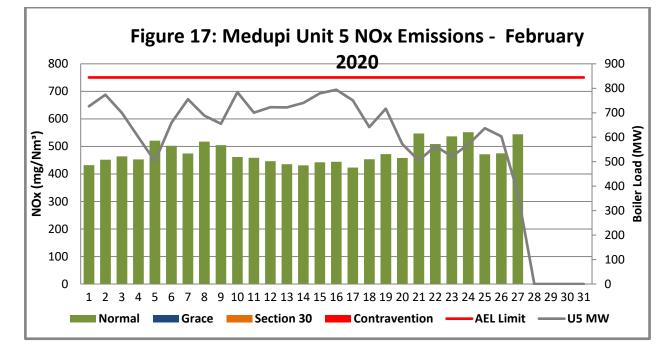
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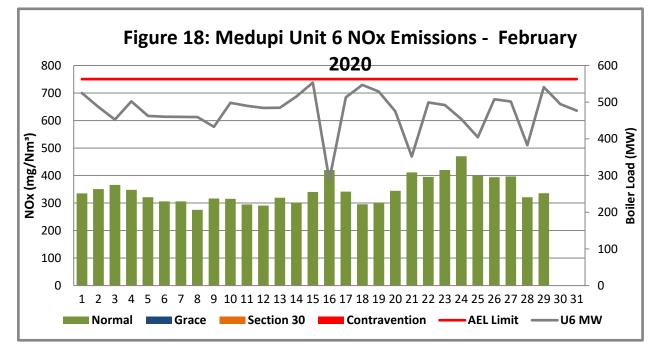




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#### Table 5: Monthly tonnages for the month of February 2020

Unit	PM (tons)	SO <sub>2</sub> (tons)	NO <sub>2</sub> (tons)	CO (tons)
1	-	-	-	-
2	33.9	6 358	1 066	37
3	0.0	0	0	0
4	48.0	4 026	703	48
5	91.7	6 409	954	30
6	104.3	2 767	347	25
SUM	277.8	19 559	3 070	140

## 5. Comments on the performance and availability of each unit

Gaseous emissions on all units were within the limit for February reporting period. Unit 5 and 6 PM emissions exceeded the limit during February 2020 reporting period. Exceedances were picked during back-fitting of data and are related to leakages from the damaged pulse jet fabric filter 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.

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

#### Table 6: Periods during which CEMS was inoperative

#### **Table 7: CEMS Monitor Reliability**

Associated Unit/Stack	РМ	SO2	NOx	O₂
Unit 2	99.9	100.0	99.9	99.7
Unit 4	100.0	91.6	91.6	91.4
Unit 5	99.9	99.6	99.6	99.6
Unit 6	99.7	99.0	95.0	93.4

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# 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 February 2020

CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE 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		
material stored.	MONTHLY INPUT DATA FOR	THE STATION	
Please only insert relevant monthly data inputs into the <u>blue cells</u> below Choose from a dropdown menu in the <u>green cells</u> The total VOC emissions for the month are in the <u>red cells</u>			
	IMPORTANT: Do not change any other cells	without consulting the AQ CoE	
MONTH:	February		
GENERAL INFOR	MATION:	Data	Unit
Total number of f	uel oil tanks:	2	NA
Height of tank:*		14.2	m
Diameter of tank:		12	m
Net fuel oil throu	ghput for the month:	<u>2708</u>	tons/month
Molecular weight	of the fuel oil:	166.00	Lb/lb-mole
METEROLOGICA	L DATA FOR THE MONTH	Data	Unit
Daily average am	bient temperature	26.20	°C
Daily maximum ar	nbient temperature	32.94	°C
Daily minimum an	nbient temperature	20.71	°C
Daily ambient ten	nperature range	12.24	°C
Daily total insolat	ion factor	5.72	kWh/m²/day
Tank paint colour	•	Aluminum/Specular	NA
Tank paint solar a	absorbtance	0.39	NA
FINAL OUTPUT:		Result	Unit
Breathing losses	:	0.70	kg/month
Working losses:		0.08 kg/month	
TOTAL LOSSES (Total TVOC Emissions for the month): 0.77 kg/month			
*Calculations performed on this spreadsheet are taken from the USEPA AP-42- Section 7.1 Organic Liquid Storage Tanks - January 1996. This spreadsheet is derived from materials provided by Jimmy Peress, PE, Tritech Consulting Engineers, 85-93 Chevy Chase Street, Jamaica, NY 11432 USA, Tel - 718-454-3920, Fax - 718-454-6330, e-mail - PeressJ@nyc.rr.com.			

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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 February 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 Rammutla <u>TR Rammutla</u> 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)

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#### **APPENDIX 1: CEMS Calibration certificates**

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		0						IFICATE	NO:
							CEN	3316	
сцет	OMER:	T		<b>C</b> 1. <i>i</i>			•		
CUSI	OMER.		Medupi Pow	er Station	1	JOB NO	0:	SC1593	
CONT	ACT NAM	E:	Christo Vors	ter		PHON	E:	014 762 3	2255
MODE	iL:		Dr Fodisch M	/IGA 23		SERIAL	LNO:	13668	
AUXI		UIPMENT:	Unit 4						
			Unit 1						
c	HAN	PRIOR	FINAL	TEST GAS		T GAS CERTI		AS FICATE IBER	EXPIRY DATE
1	ZERO	-4 ppm	0 ppm	Air	21.	0%		Nr	
· ·	SPAN	807 ppm	804 ppm	co	803.9			0A	
2	ZERO	-3 ppm	0 ppm	Air	21.			Air	
	ZERO	819 ppm	851 ppm	NO	850.9		132		
3	SPAN	-13 ppm	0 ppm	Air 802		0%	Air		
	ZERO	2199 ppm 0.09 %	2162 ppm 0.0 %	802 N2		7 ppm	5905E 132		
						9.99 %		34	
	SPAN RT: Wash	21.03 % and clean rote	20.95 % ameter, change i ameter, Calibrat		20.5 c fitting, 1	inlet filter	r in anai		
REPO	SPAN RT: Wash all sample	21.03 % and clean roto le lines and rot nder standards		nlet plasti e analyser	20.9 c fitting, i s with zer	inlet filter to and spe	r in anai	yser shou	
REPO inspectore	SPAN RT: Wash t all sampl ing to cylin	21.03 % and clean rotu e lines and rot nder standards tion: 2	ameter, change i ameter. Calibrat , analysers were	nlet plasti e analyser	20.9 c fitting, i s with zer	inlet filter to and spe	r in anai	yser shou	
REPO inspector di Date o Calibr	SPAN RT: Wash t all sampling to cylin	21.03 % and clean rot e lines and rot nder standards tion: 2 e Date: F	ameter, change i ameter. Calibrat , analysers were 26 Nov 2019	nlet plasti e analyser	20.9 c fitting, i s with zer	inlet filter to and spe	r in anai	yser shou	
REPO inspector Date of Calibr Fechn	SPAN RT: Wash t all sampling to cylin of Calibra ation Due	21.03 % and clean rot inder standards tion: 2 e Date: F	ameter, change i ameter. Calibrat , analysers were 26 Nov 2019 Teb 2020	nlet plasti e analyser	20.9 c fitting, i s with zer	inlet filter to and spe	r in anai	yser shoul alibration	

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ZERO

SPAN

4

-0.08 %

20.85 %

0.0%

20.95 %

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Air

		С	ALIBRATIC	ON CE	RTIFI	CAT	E		
							CERT	TIFICATE	NO:
								3317	
CUST	OMER:		Medupi Power Station		n	JOB NO: SC1593			
CONTACT NAME: Christo Vorster PHONE:				014 762 2255					
MODEL:			Dr Fodisch MGA 23			SERIA	L NO:	13670	
AUXIL	JARYEG	UIPMENT:	Unit 5						
c	HAN	PRIOR	FINAL			TEST GAS VALUE		AS IFICATE MBER	EXPIRY DATE
1	ZERO	1 ppm	0 ppm	Air	21.	0%		Air	
	SPAN	761 ppm	804 ppm	co	803.9	9 ppm	8	80A	
2	ZERO	-3 ppm	0 ppm	Air	21.	0%		Air	
-	SPAN	815 ppm	851 ppm	NO	850.9	9 ppm	1	32	
3	ZERO	-17 ppm	0 ppm	Air	21.	0%		Air	
-	SPAN	2206 ppm	2162 ppm	802	2161.	7 ppm	59	05E	

REPORT: Inspect all sample lines and rotameter. Calibrate analysers with zero and span gas, calibration was done according to cylinder standards, analysers were responding to all test gas.

N2

02

99.99 %

20.95 %



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	C	ALIBRATI	DN CE	RTIFI	CATE				
						NO:			
							3318		
CUSTOMER:		Medupi Power Station			JOB NO: SC159		SC1593	i93	
CONTACT NAM	IE:	Christo Vors	ster		PHON	E:	014 762	2255	
MODEL:		Dr Fodisch MGA 23			SERIAL NO: 13669				
AUXILIARYEG	UIPMENT:	Unit 6							
	PRIOR	<b>C</b> 11111	TEST	TEST	GAS		AS	EXPIRY DATE	
CHAN		FINAL	GAS	VALUE			IFICATE MBER		
7500							1 Inc.	1	

6	HAN		FINAL	GAS	VALUE	NUMBER	
	ZERO	-3 ppm	0 ppm	Air	21.0 %	Air	
· ·	SPAN	817 ppm	804 ppm	co	803.9 ppm	80A	
	ZERO	-11 ppm	0 ppm	Air	21.0 %	Air	
-	SPAN	883 ppm	851 ppm	NO	850.9 ppm	132	
,	ZERO	-35 ppm	0 ppm	Air	21.0 %	Air	
-	SPAN	2265 ppm	2162 ppm	802	2161.7 ppm	5905E	
4	ZERO	0.03 %	0.0 %	N2	99.99 %	132	
•	SPAN	20.59 %	20.95 %	02	20.95 %	Air	

REPORT: Inspect all sample lines and rotameter. Calibrate analysers with zero and span gas, calibration was done according to cylinder standards, analysers were responding to all test gas.



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		С	ALIBRATI	ON CE	RTIFI	CAT	E		
							CERT	TIFICATE	NO:
								3315	
CUST	OMER:		Medupi Power Station JOB NO: SO					SC1593	
CONTACT NAME: Christo Vorster				PHONE: 014 762		2 2255			
MODE	EL: Dr Fodisch MGA 23			SERIA	L NO:	15712			
AUXI	LIARYEQ	UIPMENT:	Unit 3						
c	HAN	PRIOR	FINAL	TEST GAS		GAS LUE	GAS CERTIFICATE NUMBER		EXPIRY DATE
4	ZERO	8 ppm	0 ppm	Air	21.	0%		Air	
	SPAN	802 ppm	804 ppm	00	803.5	9 ppm	8	ADA	
2	ZERO	16 ppm	0 ppm	Air	21.	0%		Air	
-	COMPANY.								

_	SPAN	849 ppm	851 ppm	NO	850.9 ppm	132	
	ZERO	23 ppm	0 ppm	Air	21.0 %	Air	
-	SPAN	2227 ppm	2162 ppm	802	2161.7 ppm	5905E	
4	ZERO	0.05 %	0.0%	N2	99.99 %	132	
-	SPAN	21.23 %	20.95 %	02	20.95 %	Air	

REPORT: Inspect all sample lines and rotameter. Calibrate analysers with zero and span gas, calibration was done according to cylinder standards, analysers were responding to all test gas.



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