

Dr Johan Schoeman  
 Air Quality Management Services  
 Eden District Municipality  
 PO Box 12  
 GEORGE  
 6530

Date:  
 07 April 2022

Enquiries:  
 021 573 6162

Ref: GOU/2022/03

Dear Dr Schoeman

### **GOURIKWA POWER STATION'S MONTHLY EMISSIONS REPORT FOR THE MONTH OF MARCH 2022**

This serves as the monthly report required in terms of Section 9 in Gourikwa Power Station's Atmospheric Emission License (WCED013). The report addresses the period from 1-31 March 2022 and covers Particulate Matter, CO SO<sub>2</sub> and NO<sub>x</sub> (as NO<sub>2</sub>) emissions.

#### **1. Raw Materials and Products**

Table 1: Quantity of Raw Materials and Products used/produced in Normal Operation

<b>Raw Materials and Products used</b>	<b>Raw Material Type</b>	<b>Unit</b>	<b>Maximum Permitted Consumption/ Rate (Quantity)</b>	<b>Total consumption for the Month in litres</b>
	Fuel Oil/diesel	Tons/hour/unit	40	24 639 564.42
<b>Production Rates</b>	<b>Product/ By-Product Name</b>	<b>Unit</b>	<b>Maximum Production Capacity Permitted (Quantity)</b>	<b>Total Production/Power sent out for the Month (MWh)</b>
	Energy	MWh/unit	170	79303.78
	<b>Fuel use per hour per unit (L)</b>	<b>Fuel Efficiency: Litre per MWh</b>		
	<b>Unit 11: 35 340.58</b>		<b>Unit 11:317.98</b>	
	<b>Unit 12: 35 942.52</b>		<b>Unit 12:306.42</b>	
<b>Unit 13: 33 665.68</b>		<b>Unit 13:298.81</b>		
<b>Unit 21: 35 779.85</b>		<b>Unit 21:313.78</b>		
<b>Unit 22: 33 841.79</b>		<b>Unit 22:315.82</b>		

**Generation Division**  
 Peaking Business Unit  
 15 Pasita Street, Rosenpark, Tygervalley, 7536.  
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## 2. Abatement Technology

Table 2: Abatement Equipment Control Technology utilisation for the month March

Associated Unit/Stack	Technology Type	Actual Utilisation (%) for the month
Unit 11	Low NOx burners	100%
Unit 12	Low NOx burners	100%
Unit 13	Low NOx burners	100%
Unit 21	Low NOx burners	100%
Unit 22	Low NOx burners	100%

## 3. Emissions Reporting

Table 3: Total monthly emission rates and Licence limits

	Date & time	CO (mg/N m <sup>3</sup> )	NO <sub>x</sub> (mg/Nm <sup>3</sup> )	PM (mg/Nm <sup>3</sup> )	SO <sub>2</sub> (mg/Nm <sup>3</sup> )
<b>Hourly Licence Limit mg/Nm<sup>3</sup></b>			<b>250</b>	<b>50</b>	<b>500</b>
<b>Unit 11</b>	2022/03/01 07:00	3.1	125	0.1	2.1
	2022/03/01 08:00	2.1	138	0.1	0.8
	2022/03/01 09:00	2	144	0.1	2.2
	2022/03/01 10:00	2.7	135	0.1	4.8
	2022/03/01 11:00	2.9	145	0.1	6.7
	2022/03/01 12:00	2.5	128	0.1	0.4
	2022/03/01 13:00	2.1	141	0.3	0.3
	2022/03/01 14:00	2	151	0.5	0.4
	2022/03/01 15:00	2.2	146	0.5	0.4
	2022/03/01 16:00	1.2	147	0.1	0
	2022/03/01 17:00	0.6	146	0.1	0
	2022/03/01 18:00	1.1	134	0.1	0
	2022/03/01 19:00	1.6	119	0.1	0.2
	2022/03/01 20:00	1.5	131	0.1	0.3
	2022/03/01 21:00	1.9	117	0.1	0.3
	2022/03/01 22:00	3.3	111	0.1	0.2
	2022/03/02 06:00	2.6	130	0.1	2
	2022/03/02 07:00	2.6	128	0.1	3.3
	2022/03/02 08:00	2.2	129	0.1	0.2
	2022/03/02 09:00	1.9	143	0.1	0.6
	2022/03/02 16:00	1.8	154	0.1	1.9
	2022/03/02 17:00	2.2	133	0.1	2.3

	2022/03/02 18:00	3.1	130	0.1	2.9
	2022/03/02 19:00	2.2	143	0.1	3
	2022/03/02 20:00	1.9	135	0.1	0.1
	2022/03/02 21:00	1.9	132	0.1	0.2
	2022/03/02 22:00	2.1	129	0.1	0.2
	2022/03/02 23:00	2.1	130	0.1	0.2
	2022/03/03	1.7	138	0.1	0.3
	2022/03/03 07:00	0.7	161	0.1	0.2
	2022/03/03 08:00	1.8	157	0.1	0.4
	2022/03/03 09:00	2.4	151	0.1	2.5
	2022/03/03 10:00	2.8	150	0.1	4.7
	2022/03/03 11:00	2.4	155	0.1	3.9
	2022/03/03 15:00	1.6	159	0.2	0.6
	2022/03/03 16:00	1.7	140	0.1	0.2
	2022/03/03 17:00	1.5	148	0.1	0.2
	2022/03/03 18:00	1	150	0.1	0
	2022/03/03 19:00	1.3	142	0.1	0
	2022/03/03 20:00	1.9	138	0.1	0.1
	2022/03/03 21:00	2.2	139	0.1	0.1
	2022/03/03 23:00	2	139	0.1	0.1
	2022/03/04 06:00	2.8	134	0.1	1.3
	2022/03/04 07:00	2.7	132	0.1	1.7
	2022/03/04 08:00	1.9	131	0.1	0.4
	2022/03/04 09:00	1.5	147	0.1	0.6
	2022/03/04 10:00	1.4	141	0.1	0.9
	2022/03/04 11:00	1.8	154	0.1	2.7
	2022/03/04 12:00	2.2	143	0.1	0.3
	2022/03/04 13:00	2.7	134	0.2	1.1
	2022/03/05 20:00	2.8	135	0.1	1.1
	2022/03/05 21:00	3.1	132	0.1	1.4
	2022/03/05 22:00	2.5	149	0.1	2.1
	2022/03/05 23:00	10.4	96	0.1	1.6
	2022/03/06 09:00	2	130	0.1	2.5
	2022/03/06 10:00	2.8	141	0.1	6.9
	2022/03/06 11:00	3	152	0.1	9
	2022/03/06 12:00	1.8	139	0.1	1.8
	2022/03/06 13:00	1.8	143	0.3	2
	2022/03/06 14:00	1.8	141	1.3	2
	2022/03/06 15:00	1.9	135	0.2	1.5

	2022/03/06 16:00	4.4	122	0.1	0.1
	2022/03/06 17:00	1.5	150	0.1	0.2
	2022/03/06 18:00	1.4	135	0.1	0.1
	2022/03/06 19:00	1	158	0.1	0.1
	2022/03/06 20:00	1.9	150	0.1	0.3
	2022/03/06 21:00	2.4	137	0.1	0.4
	2022/03/06 22:00	1.7	138	0.1	0
	2022/03/06 23:00	1.4	151	0.1	0.5
	2022/03/07 07:00	2.4	140	0.1	0.5
	2022/03/07 08:00	8	116	0.1	1.3
	2022/03/07 09:00	2.2	148	0.1	1.7
	2022/03/07 10:00	2.6	138	0.1	2.1
	2022/03/07 11:00	2	157	0.1	2.8
	2022/03/07 12:00	0.7	92	0.1	0.3
	2022/03/07 13:00	2.3	91	0.1	6.9
	2022/03/07 14:00	1.1	83	0.1	1.3
	2022/03/07 15:00	0	82	0.1	0
	2022/03/07 16:00	1.2	89	0.1	0
	2022/03/07 17:00	1	88	0.1	0
	2022/03/07 18:00	2.4	143	0.1	0.2
	2022/03/07 19:00	2.4	139	0.1	0.3
	2022/03/07 20:00	2.5	128	0.1	0.8
	2022/03/07 21:00	2.3	132	0.1	1
	2022/03/07 22:00	3.2	119	0.1	0.9
	2022/03/07 23:00	2.3	133	0.1	0.7
	2022/03/08	2.8	119	0.1	0.2
	2022/03/08 01:00	3.9	117	0.1	0.2
	2022/03/08 02:00	12.3	87	0.1	0.2
	2022/03/08 04:00	2.9	122	0.1	0.2
	2022/03/08 05:00	2.3	135	0.1	0.3
	2022/03/08 06:00	2.2	138	0.1	0.3
	2022/03/08 07:00	2.2	133	0.1	0.3
	2022/03/08 08:00	2.4	109	0.1	0.4
	2022/03/08 09:00	2	115	0.1	0.3
	2022/03/08 10:00	1.6	120	0.1	0.3
	2022/03/08 11:00	1.5	132	0.1	0.3
	2022/03/08 12:00	1.7	134	0.1	0.8
	2022/03/08 13:00	1.6	130	0.1	0.6
	2022/03/08 14:00	1.3	140	0.1	1.3

	2022/03/08 15:00	2.5	140	0.1	4.6
	2022/03/08 16:00	1.8	129	0.1	0.2
	2022/03/08 17:00	0.8	122	0.1	0
	2022/03/08 18:00	0.4	135	0.1	0
	2022/03/08 19:00	0.7	124	0.1	0.3
	2022/03/08 20:00	2.4	121	0.1	0.1
	2022/03/08 21:00	2.3	124	0.1	0.1
	2022/03/08 22:00	2.2	116	0.1	0
	2022/03/09 05:00	1.4	156	0.1	0.9
	2022/03/09 06:00	2.1	143	0.1	1.6
	2022/03/09 07:00	2	148	0.1	1.9
	2022/03/09 08:00	3.3	122	0.1	0.3
	2022/03/11 07:00	7	126	0.1	0.8
	2022/03/11 08:00	2.6	132	0.1	1.1
	2022/03/11 09:00	2.4	133	0.1	2.1
	2022/03/14 19:00	3.4	138	0.1	0.8
	2022/03/14 20:00	3.5	139	0.1	0.8
	2022/03/15 20:00	4.2	150	0.1	0.1
	2022/03/21 18:00	1.9	144	0.1	0.2
	2022/03/21 19:00	1.8	151	0.1	0.2
	2022/03/21 20:00	2.5	127	0.1	0.8
	2022/03/30 18:00	0.6	166	0.1	0
	2022/03/30 19:00	0.8	172	0.1	0.4
	2022/03/30 20:00	1.8	172	0.1	1.2
	2022/03/31 10:00	1.6	173	0.1	1.2
	2022/03/31 11:00	2.8	163	0.1	3.2
<b>Unit 12</b>	2022/03/01 08:00	38.5	168	0	0.2
	2022/03/01 09:00	40.6	166	0	0.5
	2022/03/01 10:00	59.5	150	0	1.6
	2022/03/01 11:00	56.9	152	0	3
	2022/03/01 12:00	55.3	141	0	2.4
	2022/03/01 13:00	52.1	149	0	0.6
	2022/03/01 14:00	44.7	159	0	0.6
	2022/03/01 15:00	52.4	147	0	0.6
	2022/03/01 16:00	63.6	137	0	0.3
	2022/03/01 17:00	63.4	137	0	0
	2022/03/01 18:00	49.1	147	0	0

	2022/03/01 19:00	45	143	0	0
	2022/03/01 20:00	49.5	153	0	0
	2022/03/01 21:00	59.6	143	0	0.1
	2022/03/01 22:00	57.9	143	0	0.1
	2022/03/02 16:00	29.9	187	0	0.4
	2022/03/02 17:00	39.6	182	0	0
	2022/03/02 18:00	53.9	160	0	0
	2022/03/02 19:00	44.2	168	0	0.2
	2022/03/02 20:00	50.9	158	0	0.1
	2022/03/02 21:00	55.7	152	0	0
	2022/03/02 22:00	58.5	148	0	0
	2022/03/02 23:00	57.2	151	0	0
	2022/03/03 08:00	39.9	172	0	0
	2022/03/03 09:00	49.9	167	0	0.2
	2022/03/03 10:00	46.5	168	0	0.8
	2022/03/03 11:00	49	175	0	1
	2022/03/03 15:00	35	182	0	0.4
	2022/03/03 16:00	40.8	174	0	0.5
	2022/03/03 17:00	46.1	179	0	0
	2022/03/03 18:00	35.7	182	0	0
	2022/03/03 19:00	47	176	0	0
	2022/03/03 20:00	43.8	174	0	0.2
	2022/03/03 21:00	46.3	170	0	0.2
	2022/03/03 23:00	71.6	206	0	0.2
	2022/03/04 06:00	69.2	207	0	0
	2022/03/04 07:00	63.6	214	0	0
	2022/03/04 08:00	64.7	215	0	0.4
	2022/03/04 09:00	67	215	0	0.2
	2022/03/04 10:00	66.9	218	0	0.2
	2022/03/04 11:00	68.2	222	0	0.3
	2022/03/04 12:00	67.6	225	0	0.4
	2022/03/05 20:00	66.2	213	0	0.2
	2022/03/05 21:00	67.2	213	0	0.3
	2022/03/05 22:00	67.5	214	0	0.3
	2022/03/05 23:00	68.2	213	0	0.3
	2022/03/06 10:00	65.7	215	0	1.1
	2022/03/06 11:00	63.8	226	0	1.9
	2022/03/06 12:00	63.4	226	0	2.8
	2022/03/06 13:00	61.5	234	0	0.6

	2022/03/06 14:00	62.4	230	0	0.2
	2022/03/06 15:00	68.1	225	0	0
	2022/03/06 16:00	66.4	230	0	0
	2022/03/06 17:00	66.9	218	0	0
	2022/03/06 18:00	69.1	217	0	0
	2022/03/06 19:00	63.6	231	0	0
	2022/03/06 20:00	66.4	223	0	2
	2022/03/06 21:00	68.4	221	0	0.1
	2022/03/06 22:00	64.1	233	0	0
	2022/03/06 23:00	63.3	230	0	0
	2022/03/07 07:00	65.1	217	0	0
	2022/03/07 08:00	64.1	218	0	1.2
	2022/03/07 09:00	64.4	219	0	0.1
	2022/03/07 10:00	64.7	220	0	0.3
	2022/03/07 11:00	66	221	0	0.5
	2022/03/07 12:00	67.3	218	0.1	1
	2022/03/07 13:00	68.5	215	0.1	1.8
	2022/03/07 14:00	65.9	213	0.1	1.1
	2022/03/07 15:00	65.7	212	0.1	0.4
	2022/03/07 16:00	66.2	214	0.1	0.3
	2022/03/07 17:00	66.8	215	0.1	0.3
	2022/03/07 18:00	67.4	214	0.1	0.2
	2022/03/07 19:00	66.4	210	0.1	0.1
	2022/03/07 20:00	66.1	211	0.1	0
	2022/03/07 21:00	66.8	218	0.1	0
	2022/03/07 22:00	67	216	0.1	0
	2022/03/07 23:00	66.5	217	0.1	0
	2022/03/08	78.8	184	0.1	0
	2022/03/08 01:00	69	207	0.1	0.1
	2022/03/08 02:00	68.5	209	0.1	0.1
	2022/03/08 03:00	67.5	208	0.1	0.5
	2022/03/08 04:00	66.7	211	0.1	0
	2022/03/08 05:00	59.3	218	0.1	0
	2022/03/08 07:00	67.4	213	0.1	0
	2022/03/08 08:00	68.5	207	0.1	0.2
	2022/03/08 09:00	67.9	203	0.1	0.2
	2022/03/08 10:00	67.8	200	0.1	0.2
	2022/03/08 11:00	67.6	204	0.1	0.4
	2022/03/08 12:00	68.3	203	0.1	0.2

	2022/03/08 13:00	69.9	203	0.1	0
	2022/03/08 14:00	71.1	210	0.1	0.3
	2022/03/08 15:00	70	213	0.1	0.4
	2022/03/08 16:00	72.9	209	0.1	0.5
	2022/03/08 18:00	70	216	0.1	0.1
	2022/03/08 19:00	65.9	217	0.1	0
	2022/03/08 20:00	69.3	219	0.1	0.4
	2022/03/08 21:00	68.8	221	0.1	0.2
	2022/03/08 22:00	68.5	220	0.1	0.2
	2022/03/08 23:00	69.9	218	0.1	0.2
	2022/03/09	69.5	218	0.1	0.2
	2022/03/09 05:00	71.9	224	0.1	0
	2022/03/09 06:00	69.6	227	0.1	0.1
	2022/03/09 07:00	70.3	229	0.1	0.1
	2022/03/09 08:00	71.5	229	0.1	0.1
	2022/03/11 09:00	76.7	221	0.1	0
	2022/03/16 20:00	1.5	130	0.1	0
<b>Unit 13</b>	2022/03/01 07:00	0	114	0.1	0.4
	2022/03/01 08:00	0.9	115	0.1	0
	2022/03/01 09:00	1.6	119	0.1	0
	2022/03/01 10:00	1.9	120	0.1	0
	2022/03/01 11:00	3	120	0.1	0
	2022/03/01 12:00	0.9	119	0.1	0
	2022/03/01 13:00	0.8	121	0.2	0
	2022/03/01 14:00	1	125	0.7	0
	2022/03/01 15:00	0.8	122	0.2	0
	2022/03/01 16:00	1.2	120	0.1	0.3
	2022/03/01 17:00	1.4	120	0.1	0.4
	2022/03/01 18:00	1.1	115	0.1	0.6
	2022/03/01 19:00	1.2	112	0.1	0.7
	2022/03/01 20:00	0.7	112	0.1	0.2
	2022/03/01 21:00	0.6	110	0.1	0.3
	2022/03/01 22:00	0.5	102	0.1	0.1
	2022/03/02 16:00	0.7	127	0.1	1.1
	2022/03/02 17:00	0.2	121	0.1	0
	2022/03/02 18:00	0.1	106	0.1	0
	2022/03/02 19:00	0.1	117	0.1	0



	2022/03/02 20:00	0.9	107	0.1	0.1
	2022/03/02 21:00	0.7	106	0.1	0.2
	2022/03/02 22:00	0.4	102	0.1	0.2
	2022/03/02 23:00	0.2	105	0.1	0.2
	2022/03/03 15:00	0.1	122	0.1	0.1
	2022/03/03 16:00	1.2	110	0.1	0.8
	2022/03/03 17:00	1.3	117	0.1	1.2
	2022/03/03 18:00	1.3	121	0.1	1
	2022/03/03 19:00	1.3	116	0.1	0.8
	2022/03/03 20:00	0.5	99	0.1	0.5
	2022/03/03 21:00	0.1	102	0.1	0.3
	2022/03/03 22:00	0.1	110	0.1	0.3
	2022/03/04 07:00	0.1	125	0.1	0.3
	2022/03/04 08:00	0.3	120	0.1	1.1
	2022/03/04 09:00	0.8	122	0.1	1.2
	2022/03/04 10:00	0.7	108	0.1	0.9
	2022/03/04 11:00	1	119	0.1	0.9
	2022/03/04 12:00	1	116	0.1	0.4
	2022/03/05 20:00	0.6	101	0.1	0.1
	2022/03/05 21:00	0.7	100	0.1	0.4
	2022/03/05 22:00	0.6	114	0.1	0.3
	2022/03/05 23:00	0.5	82	0.1	0.5
	2022/03/06 10:00	0.8	120	0.1	0.3
	2022/03/06 11:00	0.4	120	0.1	0
	2022/03/06 14:00	2.4	112	0.9	0.4
	2022/03/06 15:00	2.4	111	0.2	0.5
	2022/03/06 16:00	0.6	99	0.1	0.3
	2022/03/06 17:00	0.6	115	0.1	0.1
	2022/03/06 18:00	0.4	103	0.1	0.1
	2022/03/06 19:00	0.2	119	0.1	0.3
	2022/03/06 20:00	0.9	119	0.1	0.5
	2022/03/06 21:00	0.8	108	0.1	0.5
	2022/03/06 22:00	0.8	108	0.1	0.4
	2022/03/06 23:00	0.7	117	0.1	0.4
	2022/03/07 10:00	0.5	109	0.1	0.1
	2022/03/07 11:00	0	112	0.1	0
	2022/03/07 12:00	1.9	124	0.1	0.9
	2022/03/07 13:00	1.9	122	0.1	1.8
	2022/03/07 14:00	1.5	111	0.1	1.7

	2022/03/07 15:00	1.4	118	0.1	1.8
	2022/03/07 16:00	1	120	0.1	1.9
	2022/03/07 17:00	1.1	114	0.1	0
	2022/03/07 18:00	0.8	112	0.1	0
	2022/03/07 19:00	0.8	112	0.1	0
	2022/03/07 21:00	0.9	104	0.1	0.5
	2022/03/07 22:00	0.9	96	0.1	0.6
	2022/03/07 23:00	0.5	104	0.1	0.9
	2022/03/08	0.9	97	0.1	0.9
	2022/03/08 01:00	1.3	101	0.1	0.3
	2022/03/08 02:00	1	85	0.1	0.4
	2022/03/08 03:00	0.9	108	0.1	0.2
	2022/03/08 04:00	0.9	97	0.1	0.3
	2022/03/08 05:00	0.9	106	0.1	0.2
	2022/03/08 06:00	1.3	108	0.1	0.2
	2022/03/08 07:00	1.1	101	0.1	0.1
	2022/03/08 08:00	1	89	0.1	1.1
	2022/03/08 09:00	1.1	92	0.1	1.4
	2022/03/08 10:00	0.9	95	0.1	1.9
	2022/03/08 11:00	0.9	104	0.1	2.6
	2022/03/08 12:00	0.9	108	0.1	1.9
	2022/03/08 13:00	1.7	105	0.1	0
	2022/03/08 14:00	2.1	115	0.1	0.3
	2022/03/08 15:00	1.7	113	0.1	0
	2022/03/08 16:00	0.8	100	0.1	0.7
	2022/03/08 17:00	0.5	98	0.1	1.1
	2022/03/08 18:00	0.3	106	0.1	0.5
	2022/03/08 19:00	0.3	97	0.1	0.6
	2022/03/08 20:00	0.6	97	0.1	0.3
	2022/03/08 21:00	0.7	100	0.1	0.8
	2022/03/08 22:00	0.2	92	0.1	0.5
	2022/03/09	0.1	106	0.1	0.5
	2022/03/09 05:00	0	117	0.1	0.5
	2022/03/09 06:00	0	118	0.1	0.3
	2022/03/09 07:00	0	113	0.1	0.4
	2022/03/09 08:00	0.1	93	0.1	0.3
	2022/03/09 09:00	0.4	113	0.1	0.4
	2022/03/11 08:00	0.6	104	0.1	1.1
	2022/03/11 09:00	0.3	101	0.1	0.3

	2022/03/14 19:00	1.6	107	0.1	1.3
	2022/03/14 20:00	1	111	0.1	0.9
	2022/03/15 20:00	0.2	121	0.1	0.8
	2022/03/30 18:00	0.3	122	0.1	1.1
	2022/03/30 19:00	0	124	0.1	0.4
	2022/03/30 20:00	0.6	134	0.1	0.4
	2022/03/31 10:00	0.1	125	0.1	1.3
	2022/03/31 11:00	0.1	120	0.1	0.8
<b>Unit 21</b>	2022/03/01 07:00	0.1	107	0	3.1
	2022/03/01 08:00	2.1	121	0	2.9
	2022/03/01 09:00	2.8	126	0	0.3
	2022/03/01 10:00	3.7	124	0	0.5
	2022/03/01 11:00	3.9	128	0	0.5
	2022/03/01 12:00	2.4	114	0	0.9
	2022/03/01 13:00	2.3	122	0	1.1
	2022/03/01 14:00	2.3	125	0	1.3
	2022/03/01 15:00	2.2	122	0	1
	2022/03/01 16:00	1.7	121	0	0.8
	2022/03/01 17:00	1.3	119	0	0.7
	2022/03/01 18:00	1	115	0	0.9
	2022/03/01 19:00	0.8	118	0	0.9
	2022/03/01 20:00	1.7	117	0	1
	2022/03/01 21:00	1.4	116	0	1.1
	2022/03/01 22:00	1.1	107	0	1.4
	2022/03/02 06:00	1.8	118	0	1.7
	2022/03/02 07:00	1.1	113	0	2.1
	2022/03/02 08:00	1.9	116	0	1.6
	2022/03/02 09:00	2.4	123	0	0.7
	2022/03/02 16:00	1.8	132	0	1.3
	2022/03/02 17:00	1.7	119	0	1.2
	2022/03/02 18:00	1.8	118	0	1.2
	2022/03/02 19:00	1.7	125	0	1.3
	2022/03/02 20:00	1.2	115	0	1.1
	2022/03/02 21:00	1.1	118	0	0
	2022/03/02 22:00	1	114	0	0.1
	2022/03/02 23:00	1.1	117	0	0.1
	2022/03/03	1.7	120	0	1.2

	2022/03/04 06:00	2.3	125	0	1.4
	2022/03/04 07:00	1.7	121	0	1.7
	2022/03/04 08:00	2.4	119	0	0.9
	2022/03/04 09:00	2.8	135	0	1.4
	2022/03/04 10:00	2.1	135	0	1
	2022/03/04 11:00	2.5	140	0	1.4
	2022/03/04 12:00	1.7	127	0	0.7
	2022/03/04 13:00	1.6	122	0	0.7
	2022/03/04 14:00	1.7	127	0	0.6
	2022/03/04 15:00	2	126	0	0.4
	2022/03/04 16:00	1.6	130	0	0.3
	2022/03/04 17:00	1.2	123	0	0.6
	2022/03/04 18:00	0.8	120	0	0.6
	2022/03/04 19:00	0.9	131	0	0.5
	2022/03/04 20:00	2.6	123	0	0.3
	2022/03/05 19:00	1.3	136	0	0.8
	2022/03/05 20:00	1.6	117	0	2.2
	2022/03/05 21:00	0.5	114	0	1.8
	2022/03/05 22:00	1.1	123	0	1.5
	2022/03/05 23:00	1.7	103	0	2.1
	2022/03/06 09:00	0.6	112	0	0.2
	2022/03/06 10:00	1.5	118	0	0.2
	2022/03/06 11:00	1.9	126	0	0.4
	2022/03/06 12:00	1.9	125	0	1
	2022/03/06 13:00	2.2	128	0	0.6
	2022/03/06 14:00	2.2	127	0	0.9
	2022/03/06 15:00	2	124	0	0.9
	2022/03/06 16:00	1.2	130	0	0.5
	2022/03/06 17:00	0.7	126	0	0.5
	2022/03/06 18:00	0.6	118	0	0.4
	2022/03/06 19:00	0.5	131	0	0.6
	2022/03/06 20:00	1.7	130	0	1
	2022/03/06 21:00	1.5	123	0	1.2
	2022/03/06 22:00	1.2	124	0	1.2
	2022/03/06 23:00	1.5	131	0	1
	2022/03/07 07:00	2	126	0	1.2
	2022/03/07 08:00	0.6	122	0	1.1
	2022/03/07 09:00	0.3	124	0	0.3
	2022/03/07 10:00	0.5	118	0	0.1

	2022/03/07 11:00	1	123	0	0.2
	2022/03/07 12:00	1.4	129	0	0.8
	2022/03/07 13:00	1.8	127	0.2	0.7
	2022/03/07 14:00	3.2	125	0.1	0.8
	2022/03/07 15:00	2.3	126	0.2	0.2
	2022/03/07 16:00	1.6	132	0.1	0.2
	2022/03/07 17:00	1.2	125	0.1	0.6
	2022/03/07 18:00	1	129	0.1	0.4
	2022/03/07 19:00	0.7	127	0.2	0.5
	2022/03/07 20:00	1.9	120	0.1	0.5
	2022/03/07 21:00	1.8	127	0.1	0.7
	2022/03/07 22:00	1.3	114	0.2	0.9
	2022/03/07 23:00	0.6	127	0.1	0.9
	2022/03/08	2.3	100	0.1	2.1
	2022/03/08 01:00	2.4	115	0.1	2.4
	2022/03/08 02:00	2.6	97	0.1	2.8
	2022/03/08 03:00	2.2	129	0.2	2.7
	2022/03/08 04:00	1.1	110	0.1	1.2
	2022/03/08 05:00	0.5	118	0.1	0.9
	2022/03/08 06:00	1.7	121	0.1	0.8
	2022/03/08 07:00	1.1	114	0.1	1.3
	2022/03/08 08:00	2.9	111	0.1	1
	2022/03/08 09:00	4.1	117	0.2	1.4
	2022/03/08 10:00	4.4	126	0.1	2.4
	2022/03/08 12:00	2.7	120	0.2	1.2
	2022/03/08 13:00	2.6	125	0.2	1.9
	2022/03/08 14:00	1.8	128	0.2	1.6
	2022/03/08 15:00	1.7	126	0.2	1.8
	2022/03/08 16:00	1.4	116	0.1	1.9
	2022/03/08 17:00	1.6	117	0.1	0.7
	2022/03/08 18:00	1.2	122	0.1	0.8
	2022/03/08 19:00	1.6	116	0.1	0.5
	2022/03/08 20:00	1.2	109	0.2	0.4
	2022/03/08 21:00	0.4	111	0.1	0.3
	2022/03/08 22:00	0.9	107	0.1	0.3
	2022/03/08 23:00	0.8	116	0.2	0
	2022/03/09 05:00	1.9	128	0.1	0.4
	2022/03/09 06:00	3.2	123	0.1	0.6
	2022/03/09 07:00	3.4	122	0.1	0.6

	2022/03/09 08:00	2.4	109	0.1	0.9
	2022/03/11 07:00	0.9	103	0	0.5
	2022/03/11 08:00	2	116	0	1.7
	2022/03/11 09:00	2.1	115	0	2
	2022/03/11 10:00	2	113	0	2
	2022/03/14 19:00	0.9	125	0	0
	2022/03/14 20:00	1.8	130	0	0.5
	2022/03/15 20:00	1.9	116	0	3.4
	2022/03/21 18:00	0.3	113	0	1
	2022/03/21 19:00	0.1	118	0	0.8
	2022/03/21 20:00	2.6	113	0	1
	2022/03/30 18:00	0.6	135	0	0.8
	2022/03/30 19:00	0.1	137	0	0.4
	2022/03/30 20:00	2.4	142	0	0.7
	2022/03/31 10:00	2.7	148	0	1.8
	2022/03/31 11:00	3.1	143	0	2.5
<b>Unit 22</b>	2022/03/01 07:00	1.8	167	0	1.4
	2022/03/02 16:00	1.3	182	0	0.4
	2022/03/02 17:00	0.7	163	0	0.1
	2022/03/02 18:00	0.4	160	0	0.1
	2022/03/02 19:00	0.4	170	0	0
	2022/03/02 20:00	3	161	0	0.2
	2022/03/02 21:00	3.1	162	0	0.2
	2022/03/02 22:00	4.3	159	0	0.1
	2022/03/02 23:00	4.3	162	0	0.1
	2022/03/03 17:00	1.8	182	0	0.3
	2022/03/03 18:00	1.6	168	0	0.2
	2022/03/03 19:00	2.2	164	0	0.1
	2022/03/03 20:00	4.3	159	0	0
	2022/03/03 21:00	3.3	162	0	0.1
	2022/03/03 22:00	5	154	0	0.2
	2022/03/04 07:00	3.3	165	0	0.4
	2022/03/04 08:00	3.6	171	0	1
	2022/03/04 09:00	3.7	188	0	2
	2022/03/04 10:00	5.1	178	0	2.8
	2022/03/04 11:00	3.4	188	0	3
	2022/03/04 12:00	3.4	171	0	0.7

	2022/03/04 13:00	4.4	168	0	0.6
	2022/03/05 19:00	2	187	0	0.5
	2022/03/05 20:00	2.3	162	0	0.5
	2022/03/05 21:00	3.4	159	0	0.7
	2022/03/05 22:00	2.1	173	0	0.6
	2022/03/05 23:00	5.1	142	0	0.7
	2022/03/06 10:00	3.6	183	0	2.3
	2022/03/06 11:00	3.1	188	0	2
	2022/03/06 12:00	3.3	181	0	1.6
	2022/03/06 13:00	3.7	190	0	2.6
	2022/03/06 14:00	4	189	0	2.9
	2022/03/06 15:00	4.2	183	0	2.7
	2022/03/06 16:00	1.9	189	0	0.7
	2022/03/06 17:00	1.6	188	0	0.5
	2022/03/06 18:00	1.3	173	0	0.4
	2022/03/06 19:00	0.3	189	0	0.1
	2022/03/06 20:00	2.3	177	0	0.6
	2022/03/06 21:00	5	169	0	0.5
	2022/03/06 22:00	4	173	0	0.6
	2022/03/06 23:00	4.9	183	0	0.6
	2022/03/07 07:00	1.3	164	0	0
	2022/03/07 08:00	7.1	154	0	0.4
	2022/03/07 09:00	2.6	183	0	0.4
	2022/03/07 10:00	3	174	0	0.7
	2022/03/07 11:00	3.2	185	0	0.8
	2022/03/07 12:00	2.3	182	0	1.4
	2022/03/07 13:00	2.7	184	0.1	4.2
	2022/03/07 14:00	6.6	177	0.1	8.4
	2022/03/07 15:00	6.9	182	0.1	5.9
	2022/03/07 16:00	2.4	173	0.1	0.8
	2022/03/07 17:00	2.6	170	0.1	0
	2022/03/07 18:00	3.1	169	0.1	0
	2022/03/07 19:00	2.7	173	0.1	0
	2022/03/07 20:00	4.7	165	0.1	1.3
	2022/03/07 21:00	4.4	167	0.1	0.7
	2022/03/07 22:00	7.2	161	0.1	1.1
	2022/03/07 23:00	8.3	167	0.1	1.1
	2022/03/08	7.4	163	0.1	1.4
	2022/03/08 01:00	7	165	0.1	1

	2022/03/08 02:00	7.5	165	0.1	1.3
	2022/03/08 03:00	5.9	176	0.1	1.1
	2022/03/08 04:00	8	159	0.1	1.1
	2022/03/08 05:00	6.3	171	0.1	1.2
	2022/03/08 06:00	5.4	167	0.1	1.2
	2022/03/08 07:00	6.7	161	0.1	1.5
	2022/03/08 08:00	8	162	0.1	0.5
	2022/03/08 09:00	7.3	163	0	0.2
	2022/03/08 15:00	31.6	200	0.1	1.5
	2022/03/08 16:00	38.7	218	0.1	0.7
	2022/03/08 17:00	40.5	224	0.1	0.5
	2022/03/08 18:00	41.7	223	0.1	0.4
	2022/03/08 19:00	43.7	224	0.1	0.8
	2022/03/08 20:00	33	217	0.1	0.7
	2022/03/08 21:00	32.4	215	0.1	0.4
	2022/03/08 22:00	32.2	215	0.1	0.4
	2022/03/08 23:00	32.4	215	0.1	0.4
	2022/03/09 05:00	41.2	216	0.1	1
	2022/03/09 06:00	40.9	215	0.1	0.9
	2022/03/09 07:00	41.1	214	0.1	1.3
	2022/03/11 08:00	48.5	207	0.1	0.5
	2022/03/11 09:00	48.1	203	0.1	0.2
<b>Total Emission mass (tons)</b>					
		11.137	75.607	0.003	0.317

Table 4: Each unit and respective days operating under normal operation

Unit	Hours operating under normal operation	Hours of start-up and shut-down	Total
11	126	43	169
12	106	28	134
13	106	31	137
21	123	34	157
22	82	25	107



Total	543	161	704

Table 5: Monitoring Equipment-Continuous Emission Monitoring System (CEMS) availability

Associated Unit/Stack	Technology Type	Actual Utilisation (%) for the month
Unit 11	CEMS	100%
Unit 12	CEMS	100%
Unit 13	CEMS	100%
Unit 21	CEMS	100%
Unit 22	CEMS	100%

**Note:** Continuous Emission Monitoring System (CEMS) is always online unless a fault is reported. The system auto calibrates every four (4) hours and raises an alarm if auto calibration is out of spec. Onsite technicians calibrate the system with calibration gas annually.

Table 6: Average Point Source Emissions released during start-up, maintenance and shut-down for the month of March 2022 in mg/Nm<sup>3</sup>

Unit	NO <sub>x</sub>	SO <sub>2</sub>
11	133.14	4.35
12	172.11	5.68
13	114.26	4.04
21	122	3.76
22	148.68	3.45

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

- All 5 units were available to generate power for the month of March 2022
- **Leak Detection and Repair programme-** No leaks were reported during March 2022.

#### 5. Load Factor: 14.45%

#### 6. Complaints Register

Table 7: Complaints

Source Code/ Name	Root Cause Analysis	Calculation of Impacts/ emissions associated with the incident	Dispersion modeling of pollutants where applicable	Measures implemented to prevent reoccurrence	Date by which measure will be implemented
None	N/A	N/A	N/A	N/A	N/A

The rest of the information demonstrating compliance with the emission license conditions is supplied in the annual emission reports sent to your office.

For any related queries, please do not hesitate to contact me on 021 573 6162

Yours sincerely



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*Pamela Mrubata*  
**GOURIKWA POWER STATION**