

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

Date:
 05 January 2022

Enquiries:
 021 573 6162

Ref: GOU/2021/12

Dear Dr Schoeman

GOURIKWA POWER STATION'S MONTHLY EMISSIONS REPORT FOR THE MONTH OF DECEMBER 2021

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 December 2021 and covers Particulate Matter, CO SO₂ and NO_x (as NO₂) emissions.

1. Raw Materials and Products

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

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Total consumption for the Month in litres	
	Fuel Oil/diesel	Tons/hour/unit	40	17 129 447.85	
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Total Production/Power sent out for the Month (MWh)	
	Energy	MWh/unit	170	55800.40	
	Fuel use per hour per unit (L)		Fuel Efficiency: Litre per MWh		
	Unit 11: 35 064.53		Unit 11:313.04		
	Unit 12: 33 549.33		Unit 12:304.37		
Unit 13: 34 801.10		Unit 13:291.92			
Unit 21: 34 902.65		Unit 21:310.19			
Unit 22: 33 325.30		Unit 22:309.88			

Generation Division
 Peaking Business Unit
 15 Pasita Street, Rosenpark, Tygervalley, 7536.
 PO Box 3487, Tygerpark, Western Cape 7536 SA
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2. Abatement Technology

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

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 ³)	NO _x (mg/Nm ³)	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)
Hourly Licence Limit mg/Nm³			250	50	500
Unit 11	2021/12/01 01:00	0.7	114	0.1	0.8
	2021/12/01 02:00	1	129	0.1	0.8
	2021/12/01 03:00	0.7	117	0.1	0.9
	2021/12/01 04:00	0.3	133	0.1	0.2
	2021/12/01 05:00	0.5	115	0.1	0.1
	2021/12/01 06:00	0.2	108	0.1	0.1
	2021/12/01 07:00	0.4	108	0.1	0.2
	2021/12/01 08:00	0.2	109	0.1	0.3
	2021/12/01 09:00	0.9	118	0.1	1.9
	2021/12/01 12:00	0.5	122	0.1	0
	2021/12/01 13:00	0.3	122	0.1	0
	2021/12/01 14:00	0.2	118	0.3	0
	2021/12/01 15:00	0.4	126	0.2	0
	2021/12/01 16:00	0.2	126	0.1	0
	2021/12/01 17:00	0.4	116	0.1	0.1
	2021/12/01 18:00	0.8	116	0.1	0.2
	2021/12/01 19:00	0.6	111	0.1	0.3
	2021/12/01 20:00	0.5	128	0.1	1
	2021/12/01 21:00	0.6	110	0.1	1.4
	2021/12/01 22:00	0.7	112	0.1	1.6
	2021/12/01 23:00	0.9	117	0.1	1.2
	2021/12/02	0.3	110	0.1	0.1

	2021/12/02 14:00	1	144	0.1	2.1
	2021/12/02 15:00	1.4	127	0.1	3.8
	2021/12/02 16:00	0.6	141	0.1	0.7
	2021/12/02 17:00	0.6	134	0.1	0.8
	2021/12/02 18:00	0.5	130	0.1	1.1
	2021/12/02 19:00	0.7	132	0.1	1.2
	2021/12/02 20:00	0.7	134	0.1	0.7
	2021/12/02 21:00	0.7	131	0.1	0.6
	2021/12/02 22:00	0.4	126	0.1	0.1
	2021/12/02 23:00	0.4	128	0.1	0
	2021/12/03	0.9	141	0.1	0
	2021/12/03 14:00	2.1	150	0.2	3.1
	2021/12/03 15:00	1.8	151	0.2	2.7
	2021/12/03 16:00	0.8	136	0.1	0.1
	2021/12/03 17:00	0.3	139	0.1	0
	2021/12/03 18:00	0.3	119	0.1	0
	2021/12/03 19:00	0.3	121	0.1	0.3
	2021/12/03 20:00	0.7	140	0.1	0.2
	2021/12/03 21:00	0.8	132	0.1	0.2
	2021/12/04 10:00	1.7	155	0.1	4.1
	2021/12/04 11:00	1.8	155	0.1	5.3
	2021/12/04 12:00	0.4	149	0.1	0.7
	2021/12/04 13:00	0.9	150	0.1	2
	2021/12/04 14:00	0.7	138	0.1	1.5
	2021/12/04 15:00	0.8	122	0.1	2.2
	2021/12/04 16:00	0.3	125	0.1	0.1
	2021/12/04 17:00	0.3	126	0.1	0.1
	2021/12/04 18:00	0.3	112	0.1	0
	2021/12/04 19:00	0.5	129	0.1	0.3
	2021/12/04 20:00	0.7	116	0.1	0.1
	2021/12/04 21:00	0.7	115	0.1	0
	2021/12/06 17:00	1.1	137	0.1	0.7
	2021/12/06 18:00	1.7	138	0.1	2.9
	2021/12/06 19:00	2.3	130	0.1	4.1
	2021/12/06 20:00	0.7	142	0.1	0.2
	2021/12/06 21:00	0.3	137	0.1	0.1
	2021/12/06 22:00	0.3	129	0.1	0
	2021/12/06 23:00	0.4	131	0.1	0.4
	2021/12/07 17:00	1.1	129	0.1	1.1

	2021/12/07 18:00	1.3	110	0.1	2.1
	2021/12/07 19:00	1.6	120	0.1	2.8
	2021/12/07 20:00	0.6	118	0.1	0.2
	2021/12/10 17:00	1	137	0.1	2
	2021/12/10 18:00	1.3	120	0.1	3
	2021/12/10 19:00	1.4	115	0.1	3.5
	2021/12/10 20:00	0.8	113	0.1	1.2
	2021/12/10 21:00	0.8	117	0.1	1.3
	2021/12/10 22:00	0.9	112	0.1	1.4
	2021/12/10 23:00	0.8	124	0.1	1.2
	2021/12/11 14:00	1.1	147	0.2	1.4
	2021/12/12 10:00	1.9	137	0.1	4.3
	2021/12/12 18:00	1.2	142	0.1	2
	2021/12/12 19:00	1.3	132	0.1	2.3
	2021/12/12 20:00	1.4	147	0.1	0.3
	2021/12/12 21:00	1.5	140	0.1	0.3
	2021/12/12 22:00	1.5	128	0.1	0.2
	2021/12/13 12:00	1.1	136	0.1	1.9
	2021/12/13 13:00	1.6	134	0.1	3.7
	2021/12/13 14:00	1.7	125	0.1	4.3
	2021/12/13 15:00	1.5	132	0.1	4.1
	2021/12/13 16:00	0.6	133	0.1	0.1
	2021/12/13 17:00	0.6	127	0.1	0.1
	2021/12/13 18:00	0.5	119	0.1	0.1
	2021/12/13 19:00	0.7	118	0.1	0.3
	2021/12/13 20:00	0.7	119	0.1	0.2
	2021/12/21 18:00	1.9	134	0.1	0.8
	2021/12/21 19:00	1.3	126	0.1	1.7
	2021/12/21 20:00	1.1	146	0.1	0.1
	2021/12/21 21:00	1.1	140	0.1	0.1
	2021/12/23 20:00	1	135	0.1	0.9
	2021/12/23 21:00	1.3	136	0.1	1.4
Unit 12	2021/12/01 01:00	17.1	157	0.1	1
	2021/12/01 02:00	19.3	151	0.1	1.3
	2021/12/01 05:00	28	159	0.1	1.6
	2021/12/01 06:00	35.1	147	0.1	1.4

	2021/12/01 07:00	37.2	145	0.1	1.2
	2021/12/01 08:00	42.9	127	0.1	1.1
	2021/12/01 09:00	35.7	156	0.1	1.4
	2021/12/01 10:00	34.3	165	0.1	1.9
	2021/12/01 11:00	31.4	166	0.1	2.3
	2021/12/01 12:00	32.7	163	0.1	2.4
	2021/12/01 13:00	33.3	163	0.1	0.2
	2021/12/01 17:00	38.3	163	0.1	0.3
	2021/12/01 18:00	40.2	158	0.1	0.3
	2021/12/01 19:00	40.1	163	0.1	0.1
	2021/12/01 20:00	29.6	180	0.1	1
	2021/12/01 21:00	17.5	201	0.1	1.1
	2021/12/01 22:00	17.8	200	0.1	0.9
	2021/12/01 23:00	25.6	185	0.1	1.1
	2021/12/02	46	158	0.1	1.2
	2021/12/02 14:00	26.2	198	0.1	1
	2021/12/02 15:00	42.2	171	0.1	1.1
	2021/12/02 16:00	5.8	19	0.1	5.2
	2021/12/02 17:00	43.4	178	0.2	6.3
	2021/12/02 18:00	48	191	0.1	8.7
	2021/12/02 19:00	49.3	202	0.1	13.2
	2021/12/02 20:00	39.9	203	0.1	10.9
	2021/12/02 21:00	33.4	189	0.1	0.4
	2021/12/02 22:00	41.9	179	0.1	0.1
	2021/12/02 23:00	39.6	179	0.1	0.1
	2021/12/03	32	193	0.1	0
	2021/12/03 14:00	20.4	204	0.1	0
	2021/12/03 15:00	22.8	201	0.1	0
	2021/12/03 16:00	27.3	192	0.1	0.1
	2021/12/03 17:00	26.3	193	0.1	0
	2021/12/03 18:00	41.3	166	0.1	0
	2021/12/03 19:00	37	170	0.1	0
	2021/12/03 20:00	26.4	191	0.1	0
	2021/12/03 21:00	31.5	184	0.1	0
	2021/12/04 10:00	17.9	212	0.1	0
	2021/12/04 11:00	15.7	207	0.1	0
	2021/12/04 12:00	16.5	206	0.1	0.3
	2021/12/04 13:00	17.9	207	0.1	0.7
	2021/12/04 14:00	26.8	192	0.1	0.7

	2021/12/04 15:00	34.8	177	0.1	0.6
	2021/12/04 16:00	34.5	175	0.1	0.4
	2021/12/04 17:00	34.3	169	0.1	0.1
	2021/12/04 18:00	42.2	158	0.1	0.2
	2021/12/04 19:00	32.9	174	0.1	0.3
	2021/12/04 20:00	44.7	157	0.1	0
	2021/12/04 21:00	43.1	158	0.1	0
	2021/12/07 07:00	24.7	195	0.1	0.3
	2021/12/07 08:00	40.3	160	0.1	0.4
	2021/12/07 09:00	27.7	199	0.1	0.9
	2021/12/07 10:00	42.2	173	0.1	1.3
	2021/12/07 11:00	33.9	192	0.1	2.1
	2021/12/10 17:00	21.3	177	0.1	0
	2021/12/10 18:00	35.2	157	0.1	0
	2021/12/10 19:00	38.8	154	0.1	0
	2021/12/10 20:00	35.4	159	0.1	0.2
	2021/12/10 21:00	33.3	163	0.1	0.2
	2021/12/10 22:00	37.1	157	0.1	0.1
	2021/12/10 23:00	29.3	171	0.1	0.1
	2021/12/12 19:00	29.9	186	0.1	0
	2021/12/12 20:00	32	184	0.1	0
	2021/12/12 21:00	42.2	171	0.1	0
	2021/12/12 22:00	48.2	163	0.1	0
	2021/12/13 12:00	32	179	0.1	0.5
	2021/12/13 13:00	32.5	171	0.2	0.3
	2021/12/13 14:00	32.4	121	0.1	0.1
	2021/12/13 15:00	43.1	176	0.1	1.3
	2021/12/13 16:00	37	180	0.1	1.8
	2021/12/13 17:00	36.4	174	0.1	0.2
	2021/12/13 18:00	41.4	162	0.1	0.1
	2021/12/13 19:00	41.1	164	0.1	0
	2021/12/13 20:00	40	170	0.1	0.3
Unit 13	2021/12/01 01:00	0.4	129	0.1	0.4
	2021/12/01 02:00	0.7	128	0.1	0.5
	2021/12/01 03:00	0.5	134	0.1	0.6
	2021/12/01 04:00	0.7	132	0.1	1.1
	2021/12/01 05:00	0.8	117	0.1	1.5

	2021/12/01 08:00	0.6	101	0.1	0.6
	2021/12/01 09:00	1.5	113	0.1	0.6
	2021/12/01 10:00	1.8	120	0.1	0.7
	2021/12/01 11:00	2	120	0.1	0.5
	2021/12/01 12:00	1.2	121	0.1	0.2
	2021/12/01 13:00	0.8	120	0.1	0.2
	2021/12/01 17:00	0.4	117	0.1	0.1
	2021/12/01 18:00	0.2	113	0.1	0.1
	2021/12/01 19:00	0.1	114	0.1	0
	2021/12/01 20:00	0.4	129	0.1	0.3
	2021/12/01 21:00	0.3	132	0.1	0.6
	2021/12/01 22:00	0.1	128	0.1	0.6
	2021/12/01 23:00	0	122	0.1	0.3
	2021/12/02	0.6	119	0.1	0.5
	2021/12/02 14:00	0.9	140	0.1	0.7
	2021/12/02 15:00	0.4	139	0.1	0.5
	2021/12/02 16:00	1.4	135	0.1	0.6
	2021/12/02 17:00	1.2	134	0.1	0.2
	2021/12/02 18:00	1.3	131	0.1	0.3
	2021/12/02 19:00	1.2	134	0.1	0.4
	2021/12/02 20:00	0.8	124	0.1	0.5
	2021/12/02 21:00	0.7	122	0.1	0.7
	2021/12/02 22:00	0.7	118	0.1	0.7
	2021/12/02 23:00	0.5	117	0.1	0.7
	2021/12/03	0.8	139	0.1	0.4
	2021/12/03 14:00	0.3	135	0.2	0.1
	2021/12/03 15:00	0.2	133	0.1	0.3
	2021/12/03 16:00	0.7	130	0.1	0.4
	2021/12/03 17:00	0.7	133	0.1	0.1
	2021/12/03 18:00	0.5	122	0.1	0
	2021/12/03 19:00	1.1	126	0.1	0
	2021/12/03 20:00	1	130	0.1	0.5
	2021/12/03 21:00	1.1	126	0.1	0.4
	2021/12/04 11:00	0.3	134	0.1	0.4
	2021/12/04 12:00	1.5	137	0.1	1.2
	2021/12/04 13:00	1.6	138	0.1	1.3
	2021/12/04 14:00	1.3	130	0.1	1.5
	2021/12/12 19:00	0.4	123	0.1	0.3
	2021/12/12 20:00	1.2	126	0.1	0.3

	2021/12/12 21:00	1.1	122	0.1	0.3
	2021/12/12 22:00	1	117	0.1	0.4
	2021/12/13 13:00	1.5	128	0.1	0.3
	2021/12/13 14:00	1	119	0.1	0.3
	2021/12/13 15:00	0.9	122	0.1	0.2
	2021/12/13 16:00	1.1	121	0.1	0.2
	2021/12/13 17:00	2.1	102	0.1	13.6
	2021/12/13 18:00	2.3	113	0.1	0.2
	2021/12/13 19:00	2	115	0.1	0.3
	2021/12/13 20:00	0.9	114	0.1	0.3
Unit 21	2021/12/01 01:00	2.9	128	0	1.7
	2021/12/01 02:00	1.8	138	0	1.2
	2021/12/01 03:00	1.8	132	0	0.8
	2021/12/01 04:00	2.2	144	0	1.6
	2021/12/01 05:00	2.5	126	0	1.6
	2021/12/01 06:00	2.2	121	0	1.8
	2021/12/01 07:00	1.9	118	0	1.5
	2021/12/01 08:00	1.5	113	0	0.9
	2021/12/01 10:00	2	126	0	0.9
	2021/12/01 11:00	1.8	128	0	0.8
	2021/12/01 12:00	2	128	0	1
	2021/12/01 13:00	1.7	128	0	0.8
	2021/12/01 14:00	2.2	126	0	1
	2021/12/01 15:00	2.5	135	0	1
	2021/12/01 16:00	1.5	128	0	0.9
	2021/12/01 17:00	1.4	121	0	0.7
	2021/12/01 18:00	1.6	118	0	0.7
	2021/12/01 19:00	1.2	120	0	0.7
	2021/12/01 20:00	1.2	137	0	0.8
	2021/12/01 21:00	0.6	119	0	0.7
	2021/12/01 22:00	0.6	121	0	0.6
	2021/12/01 23:00	1.2	124	0	0.4
	2021/12/02	1.8	119	0	0.4
	2021/12/02 14:00	1.9	149	0	0.8
	2021/12/02 15:00	2	147	0	0.6
	2021/12/02 16:00	1.1	136	0	0.9
	2021/12/02 17:00	0.9	132	0	0.5

	2021/12/02 18:00	1.7	129	0	0.7
	2021/12/02 19:00	2	137	0	0.8
	2021/12/02 20:00	0.7	130	0	0.4
	2021/12/02 21:00	0.4	131	0	0.2
	2021/12/02 22:00	0.4	125	0	0.5
	2021/12/02 23:00	0.1	129	0	0.5
	2021/12/03	0.7	131	0	0.5
	2021/12/03 14:00	1.1	142	0	0.5
	2021/12/03 15:00	1	140	0	0.6
	2021/12/03 16:00	2.3	133	0	1.3
	2021/12/03 17:00	2.4	142	0	1.8
	2021/12/03 18:00	2.3	123	0	2
	2021/12/03 19:00	1.8	126	0	2.2
	2021/12/03 20:00	1.6	134	0	1.3
	2021/12/03 21:00	2.2	131	0	0.6
	2021/12/04 10:00	2.2	151	0	0.5
	2021/12/04 11:00	2.9	150	0	1
	2021/12/04 12:00	2.5	150	0	1.1
	2021/12/04 13:00	2.8	149	0	1.5
	2021/12/04 14:00	2.6	139	0	2
	2021/12/04 15:00	2.5	131	0	2
	2021/12/04 16:00	2.5	134	0	1.8
	2021/12/04 17:00	2.4	133	0	2.1
	2021/12/04 18:00	2.2	122	0	2.4
	2021/12/04 19:00	2.1	133	0	2.3
	2021/12/04 20:00	1.7	118	0	3
	2021/12/04 21:00	1.6	116	0	0.7
	2021/12/06 16:00	1.1	126	0	1.5
	2021/12/06 17:00	1.6	123	0	0.4
	2021/12/06 18:00	1.5	131	0	0.5
	2021/12/06 19:00	1.8	128	0	0.6
	2021/12/06 20:00	1.9	134	0	1.2
	2021/12/06 21:00	2	131	0	1
	2021/12/06 22:00	1.6	123	0	0.9
	2021/12/06 23:00	1.1	129	0	1
	2021/12/07	1.5	123	0	1
	2021/12/07 01:00	1.8	133	0	1
	2021/12/07 06:00	0.3	118	0	0.7
	2021/12/07 07:00	0.2	133	0	0.4

	2021/12/07 17:00	1.4	126	0	0.5
	2021/12/07 18:00	1.9	114	0	0.6
	2021/12/07 19:00	1.6	119	0	1.1
	2021/12/07 20:00	2.1	119	0	1.1
	2021/12/09 19:00	2.3	120	0	1.2
	2021/12/09 20:00	1	130	0	0.4
	2021/12/09 21:00	0.8	119	0	0.2
	2021/12/09 22:00	0.4	119	0	0.3
	2021/12/09 23:00	0.3	110	0	0.2
	2021/12/10	1.7	109	0	0.8
	2021/12/10 16:00	2.2	134	0	0.8
	2021/12/10 17:00	1.7	130	0	1.6
	2021/12/10 18:00	1.5	113	0	0.9
	2021/12/10 19:00	2	114	0	1.3
	2021/12/10 20:00	1.7	113	0	1.1
	2021/12/10 21:00	1.8	117	0	1
	2021/12/10 22:00	1.6	114	0	0.9
	2021/12/10 23:00	1.7	122	0	1.1
	2021/12/11 13:00	0.7	142	0	0.3
	2021/12/11 14:00	0.4	136	0	0.4
	2021/12/12 10:00	2.8	134	0	0.6
	2021/12/12 18:00	1.6	136	0	0.6
	2021/12/12 19:00	0.7	128	0	0.7
	2021/12/12 20:00	2.8	143	0	1
	2021/12/12 21:00	3.4	141	0	1
	2021/12/12 22:00	3.7	133	0	1.1
	2021/12/13 12:00	1.7	134	0	0.8
	2021/12/13 13:00	1.6	131	0	0.5
	2021/12/13 14:00	1.1	129	0	0.9
	2021/12/13 15:00	1.4	132	0	0.4
	2021/12/13 16:00	2	136	0	0.7
	2021/12/13 17:00	2	128	0	0.7
	2021/12/13 18:00	2	127	0	1.2
	2021/12/13 19:00	0.9	124	0	1.6
	2021/12/13 20:00	1.6	124	0	0.7
	2021/12/21 18:00	1.5	134	0	1.1
	2021/12/21 19:00	0.9	122	0	0.7
	2021/12/21 20:00	1.4	136	0	0.2
	2021/12/21 21:00	1.8	132	0	0.2

	2021/12/21 22:00	1.9	135	0	0
	2021/12/23 20:00	1.5	133	0	0.6
	2021/12/23 21:00	2.1	133	0	0.8
	2021/12/23 22:00	2.8	122	0	1.1
Unit 22	2021/12/04 21:00	1.6	130	0	0.6
	2021/12/06 16:00	1.2	124	0	0.6
	2021/12/06 17:00	0.7	123	0	0.3
	2021/12/06 18:00	0.7	130	0	0.3
	2021/12/06 19:00	0.6	126	0	0.3
	2021/12/06 20:00	1.3	136	0	0.5
	2021/12/06 21:00	1	132	0	0.5
	2021/12/06 22:00	1.3	126	0	0.6
	2021/12/06 23:00	1.1	134	0	0.6
	2021/12/07	1.4	128	0	0.4
	2021/12/07 01:00	1.4	135	0	0.4
	2021/12/07 17:00	1.4	127	0	0.5
	2021/12/07 18:00	1.4	116	0	0.2
	2021/12/07 19:00	0.5	117	0	0.3
	2021/12/07 20:00	1.4	118	0	1
	2021/12/10 16:00	1	128	0	1.7
	2021/12/10 17:00	0.3	124	0	0
	2021/12/10 18:00	0.2	112	0	0
	2021/12/10 19:00	0.1	111	0	0
	2021/12/10 20:00	1.3	110	0	0.5
	2021/12/10 21:00	1.3	115	0	0.5
	2021/12/10 22:00	1.2	113	0	0.4
	2021/12/10 23:00	1	119	0	0.5
	2021/12/12 19:00	0.5	125	0	0.2
	2021/12/12 20:00	1.2	125	0	0.4
	2021/12/12 21:00	1.1	122	0	0.3
	2021/12/12 22:00	1	117	0	0.5
	2021/12/13 12:00	1.6	134	0	0.7
	2021/12/13 13:00	1.6	133	0	0.3
	2021/12/13 14:00	1.9	122	0	0.3
	2021/12/13 15:00	1.5	129	0	0.2
	2021/12/13 16:00	2.1	129	0	0.6
	2021/12/13 17:00	2.3	126	0	0.6

	2021/12/13 18:00	2.2	124	0	0.7
	2021/12/13 19:00	2.4	124	0	0.7
	2021/12/13 20:00	2.5	117	0	1.2
	2021/12/21 18:00	2.3	134	0	1.6
	2021/12/21 19:00	0.9	124	0	0.3
	2021/12/21 20:00	2.1	139	0	1.6
	2021/12/21 21:00	2	131	0	1.1
	2021/12/23 20:00	2.1	129	0	0.5
	2021/12/23 21:00	2	131	0	0.3
Total Emission mass (tons)					
		4.901	47.773	0	0.226

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	93	30	123
12	75	25	100
13	54	16	70
21	109	35	144
22	42	18	60
Total	373	124	497

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 December 2021 in mg/Nm³

Unit	NO _x	SO ₂
11	105.07	4.95
12	160.88	4.42
13	142	3.96
21	112.74	3.14
22	116.72	2.82

4. Comments on the performance and availability of each unit

- All 5 units were available to generate power for the month of December 2021
- **Leak Detection and Repair programme-** No leaks were reported during December 2021.

5. **Load Factor:** 10.17%

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
<i>None</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>

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



Pamela Mrubata

GOURIKWA POWER STATION